

CONESTOGA VALLEY HIGH SCHOOL

COURSE CATALOG

2026 - 2027



Conestoga Valley School District
2110 Horseshoe Road
Lancaster, PA 17601

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* "\$" symbol next to a course title indicates a class with a fee. Students in the Free and Reduced Lunch program may be eligible for reduced fee amounts.

ADMINISTRATION AND SCHOOL COUNSELORS

HIGH SCHOOL OFFICE

Phone – (717) 397- 5231Fax – (717) 397- 8841

Dr. Matthew Fox Principal

Mr. Charles Dembrosky Assistant Principal

Mrs. Dawn Eby Assistant Principal

Mrs. Ashley Johnston Assistant Principal

Mrs. Melanie Upton.....Administrator for Non-Traditional Learning (CVVA) and Career Readiness

SCHOOL COUNSELORS (students assigned by first letter of last name)

Counseling Office Phone - (717) 399-8291Fax - (717) 397-3870

Mr. Douglas HelselA – F

Mrs. Jillian Stauffer G– L

Mr. Taylor Lantz..... M – R

Mrs. Morgan Myers..... S – Z

Mrs. Mary Strohm Specialized Caseload

PROFILE OF A CV LEARNER

The Profile of a CV Learner represents the important foundational elements of all students' education and provides learners with an educational program that sets them on a path to reach their fullest potential in life, regardless of their direction after graduation. The courses provided to students at the high school aim to encompass the criteria of the profile.



GRADUATION REQUIREMENTS

To be eligible for graduation from Conestoga Valley High School, a student must earn the required number of credits. Each student must meet Act 158 requirements as described on pages 5 and 6.

Course and Credit Requirements

<u>DEPARTMENT</u>	<u>CREDITS</u>
Communications (English)	4.0
Social Studies	4.0
Math	3.0
Science	3.0
Physical Education	2.0
Career Education (9th grade)	0.5
Digital Literacy 4 Today (10th grade)	0.5
Current Health Issues (11th grade)	0.5
Consumer Skills (12th grade)	0.5
Personal and Family Development (12th grade)	0.5
Art (Any Level 1 course)	0.5
Music (Any Level 1 course)	0.5
Technology Education (Any level 1 course)	0.5
Electives	8.0
Total Credits Required for Graduation	28.0

**Course requirements may be modified to accommodate students' IEPs and those enrolled in CTC programs.*

** "\$" symbol next to a course title indicates a class with a fee. Students in the Free and Reduced Lunch program may be eligible for reduced fee amounts.

COURSE WEIGHTING/GPA MEASUREMENT SCALE

The table below is used to calculate weighted GPA. Weight is added to GPA point values by multiplying a consistent percentage to Level 2 and Level 3 courses. Those values will then be added and divided by the total number of credits completed.

Grade	Percent	Level 1 Weighting General and College Prep	Level 2 Weighting Honors (Multiply by 12.5%)	Level 3 Weighting AP, College in the High School, & Dual Enrollment (Dual E) (Multiply by 25%)
A+	98 – 100	4.0	4.5	5.0
A	92 – 97	4.0	4.5	5.0
A-	90 – 91	3.67	4.12875	4.5875
B+	88 – 89	3.33	3.74625	4.1625
B	82 – 87	3.0	3.375	3.75
B-	80 – 81	2.67	3.00375	3.3375
C+	78 – 79	2.33	2.62125	2.9125
C	72 – 77	2.0	2.25	2.5
C-	70 – 71	1.67	1.87875	2.0875
D+	68 – 69	1.33	1.49625	1.6625
D	62 – 67	1.0	1.125	1.25
D-	60 – 61	0.67	0.75375	0.8375
F	Below 60	0	0	0

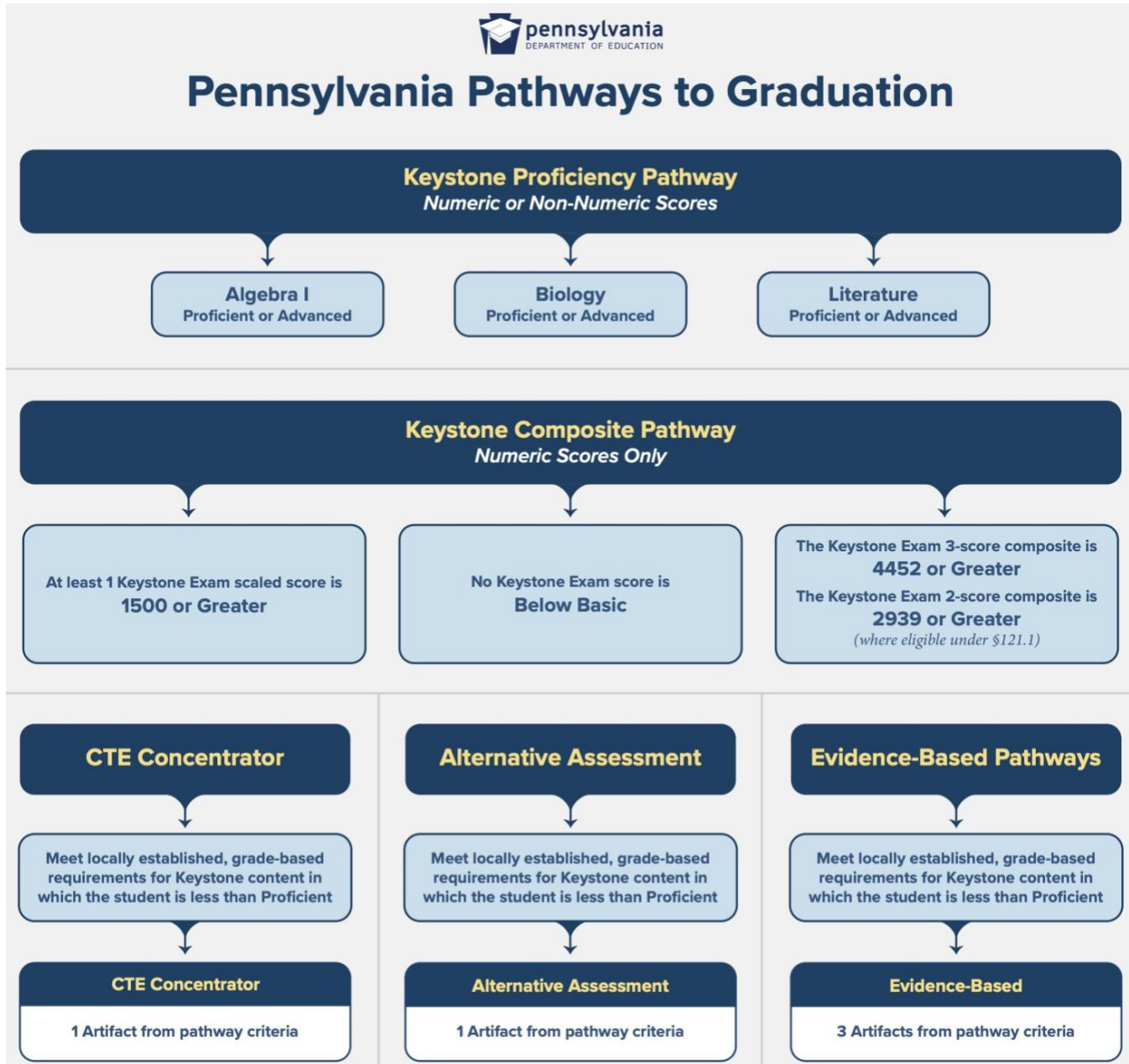
Weighted GPA is used to determine class rank.

Total GPA Point Values / Number of Credits Taken = Weighted GPA Course Average

GRADUATION REQUIREMENTS (Act 158)

Act 158 of 2018 (Act 158) provides alternatives to Pennsylvania’s statewide requirement of attaining proficiency on the three end-of-course Keystone Exams (Algebra 1, Literature, and Biology) for a student to meet statewide graduation requirements. Students must take the Keystone Exams for purposes of federal accountability.

Effective with the class of 2023 and beyond, in addition to CVSD graduation requirements, one of the five pathways below MUST be met for graduation. The diagram below gives an overview of the Act 158 requirements followed by descriptions of each pathway.



ACT 158 PATHWAY DESCRIPTIONS

Pathway 1: Keystone Exam Proficiency (all three criteria must be met)

- Proficient or Advanced in Algebra 1
- Proficient or Advanced in Biology
- Proficient or Advanced in Literature

Pathway 2: Keystone Exam Composite (all three criteria must be met)

- At least one Keystone score is Proficient or Advanced and no score is Below Basic
- Composite Keystone Score is 4452 or greater (sum of the 3 Keystone Exam scores)
- Composite Keystone Score is 2939 or greater (sum of 2 Keystone Exams where eligible)

Pathway 3: Career and Technical Education (CTE) Concentrator (1 Piece of Evidence)

- Industry-based competency certification
- Likelihood of industry-based competency assessment success
- Readiness for continued engagement in CTE Concentrator program of study

Pathway 4: Alternative Assessment (1 Piece of Evidence)

- Attainment of one alternative assessment score or better
 - ACT (Score of 21)
 - ASVAB [Armed Forces Qualifying Test (AFQT)**] (Score of 31)
 - PSAT/NMSQT (Score of 970)
 - SAT (Score of 1010)
- Attainment of Gold Level or better on ACT WorkKeys
- Attainment of 3 or better on AP Exam(s) related to each Keystone content area in which less than proficient
- Successful completion of concurrent (Dual enrollment) course(s) related to each Keystone content area in which less than Proficient
- Successful completion of a pre-apprenticeship program
- Acceptance into accredited, non-profit Institution of Higher Education (IHE) 4yr program for college-level coursework

Pathway 5: Evidence-Based (3 Pieces of Evidence consistent with student goals)

- Section 1: One or more of the following pieces of evidence:
- Attainment of 630 or better on any SAT Subject Test
 - Attainment of Silver Level or better on ACT WorkKeys
 - Attainment of 3 or better on any AP Exam
 - Successful completion of any concurrent (dual enrollment) or post-secondary course
 - Industry-recognized credentialization
 - Acceptance into accredited, non-profit Institution of Higher Education (IHE) for college-level coursework in an other-than-4yr program
- Section 2: No more than TWO from the following pieces of evidence:
 - Attainment of Proficient or Advanced on any Keystone Exam
 - Successful completion of a service-learning project
 - Letter guaranteeing full-time employment or military enlistment
 - Completion of an internship, externship, or cooperative education program
 - Compliance with NCAA Division II academic requirements

ANNUAL COURSE SELECTION TIMELINE

Month	Topic / Event
August/ September	Counselors Finalize Schedule Updates Based on Student Requests
October	New Course Proposals Presented by Department Chairs Based on Student and Staff Interest Senior Course Changes deadline by mid-October
November/ December	New Courses Approved by Board of Directors
January	First-semester Core Course Recommendation
February	Course Catalog approved by Board of Directors Second-semester Core Course Recommendations Grade 8 Course Selection Grades 9-11 Student Course Selection <i>*Students must meet all prerequisites required for the courses being requested</i>
March	Roster Verification by Teachers Based on Course Requests
April	Staff Teaching Assignments Completed
May	Master Schedule Developed in PowerSchool
June	Master Schedule Finalized
July	<i>Student schedules released end of July; students request schedule changes using Google Form</i> <i>*Once the summer has passed, students will not be permitted to make changes to their Marking Period 1 schedule.</i> <i>** Credited courses may not be dropped for uncredited courses once the school year begins.</i>

*****Note: Once a marking period/semester begins, students may not drop any current courses. Marking Period 2, Marking Period 3 and Marking Period 4 course changes will be considered up to two weeks prior to the next marking period.**

CAREER AND COLLEGE READINESS OPPORTUNITIES

WORK EXPERIENCE (Off Campus)

Course No. 0132C

Credits: See below

Gr. 11-12

Students who are employed outside of the school day during the school year may be able to receive high school credit for their working hours. After students have successfully found a job, they can apply for Work Experience through the counseling office. Verification from the employer is required. Students must remain in satisfactory academic standing and must have official working papers on file, if applicable. Work Experience does not impact a student's GPA.

- **0.5 Credit:** Students who average 10 hours of work per week are eligible for 0.5 credit per marking period. Work Experience replaces 1 block in their schedules.
- **1 Credit:** Students who average 20 hours of work per week are eligible for 1 credit per marking period. Work Experience replaces 2 blocks in their schedules.
- Students may earn up to 4 credits of Work Experience per school year.

INTERNSHIP

Course No. 0320A

Credits: See below

Gr. 11-12

- **0.5 Credit:** Internship replaces 1 block
- **1 Credit:** Internship replaces 2 blocks

What are the benefits of participating in an internship?

- Enhance your school transcript for applications to colleges and employment opportunities
- Learn more about your field of interest
- Apply knowledge learned in the classroom
- Gain valuable work experience
- Develop and build upon employability skills
- Create networking contacts with local companies
- Obtain references for future job opportunities

Internship opportunities are available to 11th and 12th grade students (and to 9th or 10th grade students with administrative permission) who wish to benefit from early experiences with industry experts in their chosen career. Students will collaborate with the Internship Team (Counselor, Internship Coordinator and/or Work-Based Learning Facilitator) to find a proper placement and also periodically throughout the experience. Internships may be paid or unpaid. The student is responsible for transportation to and from the internship location. A grade will be awarded based on the evaluation of the site supervisor and successful completion of the internship requirements. Successful completion of an Internship qualifies as one (1) piece of evidence for Act 158 Pathway 5, Section 2 (Internship).

TEACHER ASSISTANT

Course No. 6719005

Credit: 0.5

Gr. 11-12

This opportunity is for aspiring educators and students interested in various subject areas who would like a career mentoring experience. Teacher assistant responsibilities may include various classroom management duties such as making copies and organizing classroom materials. Students are required to secure their own placement with a teacher. Students will complete a set of assignments in Schoology, including a daily log of their tasks. Teacher Assistant is a **Pass/Fail** course and does not impact a student's GPA. A grade will be awarded based on the evaluation completed by the supervising staff member and completion of the career mentoring requirements. Successful completion of a Teacher Assistant experience qualifies as one (1) piece of evidence for Act 158 Pathway 5, Section 2 (Externship: Career Mentoring).

- Students may earn up to 1 credit (2 marking period courses) per school year as a teacher assistant.

EARLY GRADUATION PROGRAM

Eligible Conestoga Valley High School 11th and 12th grade students, upon meeting all graduation requirements and consulting with their school counselor, may request to graduate early. Students interested in this option must obtain an Early Graduate application. Once graduated, students are no longer eligible to participate in extra-curricular activities or sports. It is understood that early graduation students' final class rank may be negatively impacted by choosing this option. Early graduates will no longer be active CVHS students and will be treated as Conestoga Valley High School alumni.

ADVANCED PLACEMENT COURSES (On-Campus) and DUAL ENROLLMENT (DUAL E) (Off-Campus and On-Campus)

These courses (see department-specific sections) allow students to earn college credit through courses at CVHS based upon successful completion of requirements. Please see your school counselor or department teacher for more information.

ADVANCED PLACEMENT COURSES

Advanced Placement (AP) courses are college-level classes offered in high school that provide students with rigorous academic challenges and the opportunity to earn college credit or advanced placement. AP courses are designed to develop critical thinking, analytical writing, and problem-solving skills through an in-depth exploration of subject matter aligned with national College Board standards. Students engage in complex readings, advanced coursework, and comprehensive assessments that prepare them for the AP examination administered in the spring. Successful performance on the AP exam may result in college credit or placement, depending on individual college and university policies.

DUAL ENROLLMENT COURSES

Dual Enrollment, referred to as “concurrent enrollment” in the School Code, is a program designed to encourage a broader range of students to experience post-secondary coursework and increased academic rigor. A dual enrollment agreement must be established between Conestoga Valley High School and the cooperating college or university for credit to be considered concurrent. complete list of cooperating colleges and universities offering dual enrollment credit with Conestoga Valley High School is available on the high school website under [Early/Dual Enrollment Opportunities](#). **Tuition costs are established by the collaborating college or university and are posted within the partnering links on the website.** Students should talk to their school counselor for additional information.

Students receive one (1) CVHS credit for each three (3) credit (or more) dual enrollment college course completed.

If a student drops a dual enrollment course, CV will follow the grading procedures of the college or university.

Students are not limited to the number of approved dual enrollment/college credits taken during their high school years.

The criteria for eligibility for CHS/dual enrollment courses are as follows:

- Student is in 11th or 12th grade.
- Student is making satisfactory progress toward fulfilling graduation requirements as determined by the school district.
- Student demonstrates readiness for college-level coursework in the intended subject area of study as determined by the college.
- Colleges/universities may use academic grades (3.0 GPA or higher) and achievement tests such as PSAT/SAT/ACT scores to determine eligibility.
- Each college or university may have additional admission requirements and/or course prerequisites.

A dual enrollment application must be completed and returned to the student's counselor two weeks prior to the semester, or the course will not be added to the transcript. Students may arrange to take more than the standard five (5) classes during a particular marking period or semester as necessary to meet career goals and/or special post-secondary program requirements. Exceeding standard credit amounts should be discussed and arranged with the student's school counselor.

DUAL ENROLLMENT (Off-Campus) (Prior Approval by School Counselor)

Dual enrollment courses allow high school students to take a college-level classes on a partnering college campus while earning both high school and college credit simultaneously. The course is taught by a college-approved instructor and follows the same curriculum, academic standards, and grading policies. Students experience an authentic college environment, develop advanced academic skills, and may reduce future college time and costs upon successful completion. Students are responsible for transportation and any additional costs associated with the off-campus courses.

DUAL ENROLLMENT (On-Campus) (Prior Approval by School Counselor)

Dual enrollment courses allow high school students to enroll in college-level classes offered through a partnering college or university while still completing their high school requirements. These courses are taught by college-approved CVHS instructors and follow the same curriculum, academic standards, and assessment methods as on-campus college courses. Students earn both high school and transferable college credit upon successful completion, providing an opportunity to experience the rigor of college academics, reduce future college costs, and accelerate progress toward a degree.

CAREER AND TECHNOLOGY EDUCATION



The Lancaster County Career and Technology Center is a full service career and technical school that provides hands-on skills training combined with academic learning to prepare you for careers in the new economy. For more details about the CTC Programs, see lancasterctc.edu

Why choose LCCTC?

- Earn between 3 and 13 college credits during your senior year.
- Have the opportunity to participate in a clinical rotation/internship (some even acquire co-op).
- Earn a diploma from CVHS **and** a certificate of completion from the Lancaster County Career & Technology Center.
- Gain certain State and National certifications in the areas of expertise.

Choose a concentration in the following career fields:

- Advanced Manufacturing
- Agriscience
- Construction Technologies
- Consumer Services
- Culinary Arts
- Informational Technology
- Medical/Dental
- Protective Services
- Transportation Technologies
- Visual Communications

HALF-DAY CLUSTER CAREER AND TECHNOLOGY PROGRAM (Lancaster CTC)

Course No. 0222

Credits: 5

Gr. 11

Students must apply by December of the school year before they plan to attend the CTC. Students who attend CTC during their 11th grade year will have Social Studies or Science requirements waived for that year only. Juniors who attend will take a total of four credits at CV (English, Math, Physical Education, Health, and either Social Studies or Science), and five credits at CTC. Successful completion of an Industry-Based Competency Certification, the likelihood of Industry-Based Competency Assessment success, and/or readiness for Continued Engagement in CTE Concentrator Program of Study all qualify as pieces of evidence for Act 158 Pathway 3 (CTE Concentrator).

FULL-DAY PROGRAM CAREER AND TECHNOLOGY CENTER (Lancaster CTC)

Course No. 0242

Credits: 10

Gr. 12

Students must apply by December of the school year before they plan to attend the CTC. Students who attend full-day CTC will be awarded 10 credits based on successful completion of their program. Students who are credit deficient may need additional courses to fulfill CV graduation requirements. Once attending, the CTC is a full-year commitment. Successful completion of an Industry-based Competency Certification, the likelihood of Industry-based Competency Assessment success, and/or readiness for Continued Engagement in CTE Concentrator Program of Study all qualify as pieces of evidence for Act 158 Pathway 3 (CTE Concentrator).

COMMUNICATIONS (ENGLISH)

All students are required to take at least one (1) credit of core English each year at CVHS. Students take English 1 in 9th grade and English 2 in 10th grade. In both the 11th and 12th grade years, students choose at least one (1) credit of a core English course that meets the department requirements. All core courses have required research papers or projects. Students wishing to pursue additional credits should work with their school counselor to ensure appropriate sequencing. Students may also take additional English core classes beyond the required four (4) as electives. In addition to required grade-level English courses, electives are also available. These electives do not count toward the graduation requirements but may be counted as Elective credits for graduation.

HONORS ENGLISH 1

Course No. 1011H

(Placement based on 8th Grade performance data)

Credit: 1

Gr. 9

The study of literature develops academic reading skills and includes drama, novel, non-fiction, fiction, and poetry. Utilizing the writing process, students compose expository and persuasive essays. Students who elect this course should be prepared to read longer passages of text nightly, comprehend text independently, and analyze the text accurately in preparation for numerous writing styles, including research-based ones. A biography project will culminate with an oral presentation. Vocabulary is SAT-prep in nature and focuses on roots, prefixes, suffixes, and context clues. Students who select this course should be prepared to complete a significant amount of independent work both in and outside the classroom. Students are required to read select texts before the start of the course. This is a very demanding course with high academic expectations. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **Summer Work is required for this course and must be submitted before the school year begins. Students enrolled in this course will also be enrolled in Advanced Composition in the same year. (Level 2 Weighting)**

COLLEGE PREP ENGLISH 1

Course No. 1011

(Placement based on 8th Grade performance data)

Credit: 1

Gr. 9

This course expands upon the content presented in 8th grade. The study of literature develops academic reading skills and includes drama, novel, non-fiction, fiction, and poetry. Utilizing the writing process, students compose expository and persuasive essays and use research techniques in analyzing various articles. A biography project culminates with an oral presentation. Vocabulary is SAT-prep in nature and focuses on roots, prefixes, suffixes, and context clues. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 1 Weighting)**

ENGLISH 1

Course No. 1012

(Placement based on 8th Grade performance data)

Credit: 1

Gr. 9

This course expands upon the content presented in 8th grade. The study of literature develops academic reading skills and includes drama, novel, non-fiction, fiction, and poetry. Utilizing the writing process, students compose expository and persuasive essays and analyze various other writing pieces, such as articles. A biography project culminates with an oral presentation. Vocabulary study focuses on roots, prefixes, suffixes, and context clues to make meaning. This course is designed for students pursuing a career immediately after high school or a 2-year college degree. **(Level 1 Weighting)**

HONORS ENGLISH 2

Course No. 1021H

(Prerequisite: 80% in Honors English 1, 90% in College Prep English 1, or Teacher Recommendation)

Credit: 1

Gr. 10

The study of literature develops academic reading skills and includes drama, novel, non-fiction, memoir, and possibly short story and poetry. Utilizing the writing process, students compose expository essays, persuasive/argumentative essays, and research papers. Students who select this course should be prepared to read longer passages of text nightly, comprehend text independently, and analyze the text accurately to write numerous analytical essays. Students will also be required to follow themes in literature across multiple texts. Vocabulary teaches students linguistic reasoning skills as well as affixes and roots. Students who select this course should be prepared to complete a significant amount of independent work both in and outside the classroom. Students are required to read select texts before the start of the course. This is a very demanding course with high academic expectations. This course is designed for students interested in pursuing a college degree or other post-secondary studies. Ten percent (10%) of the final course grade is based on Keystone Exam performance. **Summer Work is required for this course and must be submitted before the school year begins. (Level 2 Weighting)**

COLLEGE PREP ENGLISH 2

Course No. 1021

(Prerequisite: 75% in College Prep English 1, 90% in English 1, or Teacher Recommendation)**Credit: 1****Gr. 10**

This course expands upon the content presented in College Prep English 1. The study of literature develops academic reading skills and includes drama, novel, non-fiction, memoir, and possibly short story and poetry. Utilizing the writing process, students compose expository essays, persuasive/argumentative essays, and research papers in preparation for post-secondary studies. In addition, students have numerous formal writing experiences. Vocabulary teaches students linguistic reasoning skills as well as affixes and roots. This course is designed for students interested in pursuing a college degree or other post-secondary studies. Ten percent (10%) of the final course grade is based on Keystone Exam performance. **(Level 1 Weighting)**

ENGLISH 2

Course No. 1022

(Prerequisite: Successful completion of English 1)**Credit: 1****Gr. 10**

This course expands upon the content presented in English 1. The study of literature develops academic reading skills and includes drama, novel, non-fiction, autobiography, and possibly short story and poetry. Utilizing the writing process, students compose expository and persuasive multi-paragraph essays. Students will demonstrate independence in gathering vocabulary knowledge when considering a word or phrase important to comprehension or expression and receive specific vocabulary instruction in commonly used words. In addition, students will have numerous formal writing experiences. Vocabulary instruction focuses on roots, prefixes, and suffixes. Ten percent (10%) of the final course grade is based on Keystone Exam performance. **(Level 1 Weighting)**

CORE ENGLISH COURSES FOR 11TH AND 12TH GRADE**Students choose from the following courses for their 11th and 12th grade English requirements.****DUAL E- ARGUMENT (\$)**

Course No. D4CV0111

(Prerequisite: Successful completion of Advanced Composition and one of the following: 75% or better in an Honors or Dual-E English course, 90% in a College Prep English course, or Teacher Recommendation)**Credit: 1****Gr. 11-12**

This course is offered through College in a High School through the University of Pittsburgh. Students who achieve a "C" or better for the course will earn three (3) college credits from the University of Pittsburgh that are transferable to other colleges and universities. This course teaches students to recognize, explain, research, construct, present and critique arguments. Assignments invite students to create their own research-based arguments, express them capably to peers and instructors, eloquently refute competing arguments, and judge the soundness of arguments made by others. A survey of key concepts, including the Toulmin model, in argumentation theory will provide background for students to develop their argument skills in a variety of both oral and written activities that feature lively intellectual interchange. Students will participate in live debates to hone argument skills. **Summer Work is required for this course and must be submitted before the school year begins. (Level 3 Weighting)**

DUAL E- ENGLISH Composition and Literature (\$)

Course No. D1CV1010207

(Prerequisite: Successful completion of Advanced Composition and one of the following: 75% or better in an Honors or Dual-E English course, 90% in a College Prep English course, or Teacher Recommendation)**Credit: 1****Gr. 11-12**

Students are enrolled as HACC students and take the course at a reduced tuition rate. Upon successful completion of course requirements, students will earn up to six (6) college credits through HACC that may be transferred to most Pennsylvania colleges and universities and some out-of-state schools, as well as one CV English credit. Students will respond appropriately to the needs of different audiences and rhetorical contexts in terms of voice, tone, level of formality, format, and structure while exploring literature in a variety of genres such as short fiction, poetry, and drama. The focus of this course is on the elements of the literature studied, including character, style, structure, form, tone, and theme. The historical and cultural context of the works studied, including history, geography, culture, race, gender, class, ethnicity, and religion are also considered. Literature studied in this course is drawn from various literary periods as well as from a range of writers, including American, British, western European, and world literary figures. **Summer Work is required for this course and must be submitted before the school year begins. (Level 3 Weighting)**

DUAL E- INTRODUCTION TO FILM (\$)

Course No. D4CV101

(Prerequisite: Successful completion of Advanced Composition and one of the following: 75% or better in an Honors or Dual-E English course, 90% in a College Prep English course, or Teacher Recommendation)

Credit: 1**Gr. 11-12**

This course is offered through College in a High School through the University of Pittsburgh. Students who achieve a "C" or better for the course will earn three (3) credits from the University of Pittsburgh. Upon completing this course, students will earn 3 college credits through the University of Pittsburgh. Introduction to Film is a basic course on the visual arts that offers students a broad introduction to the medium of film while inviting conversations about new media, television, and film's connection to other arts, including photography, painting, theater, and web video. The course teaches students with no background in media studies to analyze media in terms of art, industry, and culture. The class will consider such issues as the process of contemporary film production and distribution, the nature of basic film forms, selected approaches to film criticism, comparisons between film and the other media; genre; auteurism; marketing; diversity of representation. **Summer Work is required for this course and must be submitted before the school year begins.**

(Level 3 Weighting)**AP ENGLISH LITERATURE AND COMPOSITION (\$)**

Course No. 1040AP

(Prerequisite: Successful completion of Advanced Composition and one of the following: 75% or better in an Honors or Dual-E English course, 90% in a College Prep English course, or Teacher Recommendation)

Credits: 1**Gr. 11-12**

This challenging course is designed for those students interested in taking the AP English exam to receive college credit(s). This course has three primary areas of focus: literature, writing, and AP exam preparation. The course will include a wide variety of literary works. Students who elect this course should be prepared to read longer passages daily, comprehend text independently, and analyze the text accurately in preparation for numerous timed literary analysis writings as well as published formal compositions. Students who select this course should be prepared to complete AP-level work both in and outside the classroom successfully. Students are required to read select texts before the start of the course. This is a very demanding course with high academic expectations. This course is designed for students interested in pursuing a four-year college degree and meets the department requirement for a core English class for 11th or 12th grade students. **Summer Work is required for this course and must be submitted before the school year begins.**

(Level 3 Weighting)**COLLEGE PREP AMERICAN LITERATURE (Offered alternate years)**

Course No. 102901

(Prerequisite: 75% in a College Prep English course, 90% in a general-level English course, or Teacher Recommendation)

Credit: 1**Gr. 11-12**

This course expands upon the content presented in the 9th and 10th grade college prep English courses. The course provides a survey of American literature, and the students will utilize the writing and research processes for composing expository and persuasive writings. Students will analyze the techniques an author uses to create fiction and nonfiction texts through literary analysis. Vocabulary instruction centers on roots, prefixes, suffixes, and context clues. This course is designed for students interested in pursuing a college degree or other post-secondary studies and meets the department requirement for a core English class for 11th or 12th grade students.

(Level 1 Weighting)**COLLEGE PREP BRITISH ENGLISH AND WORLD LITERATURE (Offered alternate years)**

Course No. 103901

(Prerequisite: 75% in a College Prep English course, 90% in a general-level English course, or Teacher Recommendation)

Credit: 1**Gr. 11-12**

This course analyzes an author's literary analysis of British, World, and contemporary literature to create fiction and nonfiction texts. Vocabulary instruction centers on roots, prefixes, suffixes, and context clues. Students will utilize the writing and research processes for composing expository and persuasive writings. This course is designed for students interested in pursuing a college degree or other post-secondary studies. and meets the department requirement for a core English class for 11th or 12th grade students. **(Level 1 Weighting)**

COLLEGE PREP DRAMA STUDIES AND PRODUCTION - ENGLISH

Course No. 104601

(Prerequisite: 75% in a College Prep English course, 90% in a general-level English course, or Teacher Recommendation)

Credit: 1**Gr. 11-12**

This course will focus on the study of drama as a literary genre. Students will read both classic and contemporary plays and write character and scene analyses. They will also write critiques of live performances. The second half of the course will focus on the writing and production of an original, devised play to be performed before an audience. **(Level 1 Weighting)**

COLLEGE PREP JOURNALISM

Course No. 1220

(Prerequisite: 75% in a College Prep English course, 90% in a general-level English course, or Teacher Recommendation)**Credit: 1****Gr. 11-12**

This course will focus on the study of print journalism. Journalistic techniques will be analyzed and employed, including daily newspapers, magazines, and online publications/platforms. Content emphases are the following: to improve students' ability to recognize and analyze ethical issues that confront journalists, to utilize a writing workshop that honors and encourages writing as a process, and to allow students time and practice to find their voice in the highly technical writing style of the journalist. Responsibilities might include writing articles for local newspapers, district communications, and *The Valley Voice*. This course is designed for students interested in pursuing a college degree or other post-secondary studies and meets the department requirement for a core English class for 11th or 12th grade students. **(Level 1 Weighting)**

COLLEGE PREP MEDIA IN THE 21ST CENTURY - ENGLISH

Course No. 104701

(Prerequisite: 75% in a College Prep English course, 90% in a general-level English course, or Teacher Recommendation)**Credit: 1****Gr. 12**

This course will introduce students to semiotics and structuralism, which serve as the theoretical basis for analyzing media. With this foundation, students will analyze visual media, including commercials and advertisements. Students will focus on detecting bias and distinguishing fact from opinion. Students will study television and film by learning about the "grammar" of visual language and how this language conveys meaning. Another unit will examine media most accessible to students, including social media, memes, and fashion. Students will learn about the concept of the schema as it relates to cultural literacy, especially about meme culture. The final unit will focus on analyzing popular music lyrics and music videos for their intended messages and unintended consequences, in some cases. **(Level 1 Weighting)**

COLLEGE PREP SCIENCE FICTION STUDIES

Course No. 113101

(Prerequisite: 75% in a College Prep English course, 90% in a general-level English course, or Teacher Recommendation)**Credit: 1****Gr. 11-12**

This course analyzes influential Science Fiction works, including novels, short stories, non-fiction, television, and film. Students are expected to understand the genre, be able to engage critically and creatively with Science Fiction texts, and identify their broad cultural impact. This course is designed for students interested in pursuing a college degree or other post-secondary studies and meets the department requirement for a core English class for 11th or 12th grade students. **(Level 1 Weighting)**

AMERICAN LITERATURE FOR LIFE AND WORK

Course No. 103001

(Prerequisite: Successful completion of English 1 and 2)**Credit: 1****Gr. 11**

This course emphasizes the study of American literature through themes for life and work, reading and analyzing literature, and vocabulary study. The emphasis in writing relates to the process and applications of composition. Students must also participate in daily discussions to emphasize the communication process. Vocabulary instruction centers on roots, prefixes, suffixes, and context clues. This course is designed for students pursuing a career immediately after high school or a 2-year college degree and meets the department requirement for a core English class for 11th or 12th grade students. **(Level 1 Weighting)**

MEDIA IN THE 21ST CENTURY - ENGLISH

Course No. 104801

(Prerequisite: Successful completion of English 1 and English 2)**Credit: 1****Gr. 12**

This course will prepare students to analyze visual media, including commercials and advertisements. Students will focus on detecting bias and distinguishing fact from opinion. Students will study television and film by learning about the "grammar" of visual language and how this language conveys meaning. Students will also examine social media and memes for their cultural significance. **(Level 1 Weighting)**

COMMUNICATIONS ELECTIVES

The following courses are electives. They do not fulfill the graduation requirement for English credits. They may be counted as elective credits required for graduation.

ADVANCED COMPOSITION

Course No. 1341H

(Required before taking DUAL-E and AP courses)

Credit: 0.5

Gr. 9-12

This intensive writing course is designed for the student who desires to develop strong written communication skills and/or is planning to take 11th and/or 12th grade College in the High School English or Honors level courses. The course will concentrate on developing advanced abilities in expository and argument writing and an in-depth study of the American English Language. Compositions may include autobiography, definition, classification, description, and opinion/argument. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 2 Weighting)**

CREATIVE WRITING

Course No. 1322

Credit: 0.5

Gr. 9-12

This course is designed for students who wish to experience writing as a form of artistic self-expression. The course will enable students to develop originality in thought and writing and bring students to a greater awareness of self. Students will first read and analyze examples of the following genres: short story, drama, and poetry. Students will then be accountable for creating their own short stories, one-act plays, and poetry projects. Students will also be required to write in a journal daily. Conferences with peers and the teacher and self-reflection/assessment will enable students to have a greater understanding of the creative process, ways to improve writing, and audience appeal. **(Level 1 Weighting)**

ADVANCED CREATIVE WRITING (Offered alternate years)

Course No. 1323005H

(Prerequisite: Grade of 75% in Creative Writing or Teacher Recommendation)

Credit: 0.5

Gr. 10-12

This intensive writing course is designed for students who wish to experience writing as a form of artistic self-expression and build upon what they learned in Creative Writing class. The course emphasizes a project-based learning approach to creative writing, having students showcase their writing skills by submitting at least one of their original texts for publication in Conestoga Valley's art and literary magazine, *Plinth*. The course will concentrate on developing advanced abilities in creative writing and encouraging students to deepen their originality in thought to bring them to a greater awareness of self. Creative writing techniques and design techniques associated with publishing literary works will be discussed and used. Students will read, analyze, and write samples of writing in a variety of genres including short stories and poetry. Students will experience the entire cycle of the writing process, including writing in a journal on a daily basis, conferencing with peers and the teacher for feedback that will lead to revisions, and reflecting on their own learning. **(Level 2 Weighting)**

INTRODUCTION TO HUMANITIES

Course No. 1441

Credit: 0.5

Gr. 9-12

This course presents a thematic approach to the study of works of arts, literature, and music. Students will explore historic and contemporary works created by people of diverse backgrounds and interests. Students are expected to engage and to respond to course assignments critically and creatively. **(Level 1 Weighting)**

INTRODUCTION TO THEATRE

Course No. 1431

Credit: 0.5

Gr. 9-12

This course introduces various aspects of the theatre, with an emphasis on on-stage performance. Students will practice analyzing scripts and developing monologues in addition to improvisational acting skills. This course is appropriate for all levels of experience in the theatre. **(Level 1 Weighting)**

HISTORY OF FILM 1

Course No. 1410

Credit: 0.5

Gr. 9-12

This course prepares students to critically interpret, discuss, and write about films as a text. Students will study a wide variety of films from across the world and be able to recognize various trends and the characteristics of different genres within a film. In addition to the films themselves, curriculum components include a textbook and multiple critical analyses. Assessments include tests, formal and informal discussions/journal responses, and multiple writing assignments. **(Level 1 Weighting)**

HISTORY OF FILM 2**Course No. 1411****(Prerequisite: History of Film 1)****Credit: 0.5****Gr. 10-12**

This course will expand upon the concepts taught in History of Film by instructing students about various modes of film writing depending on audience (general or academic audiences). Students will gain analytical skills and learn how to communicate their analysis both verbally and in writing. The course emphasizes the acquisition of skills rather than content by teaching students how to interpret visual language. Students will critically interpret, discuss, and write about films as a text. They will study a wide variety of films from across the world and be able to recognize various trends and the characteristics of different genres and archetypes within film. In addition to the films themselves, curriculum components include multiple critical analyses. Assessments include formal and informal discussions/journal responses, and multiple writing assignments. **(Level 1 Weighting)**

JOURNALISM IN THE VALLEY VOICE**Course No. 1224****Credit: 0.5****Gr. 9-12**

This course consists of project- or problem-based units implemented according to current issues in journalism, and students will use their skills to create, design, and publish the *Valley Voice*, the school newspaper, showcasing their best work. Emphasis is on preparing the school newspaper for publication. Journalistic techniques will be discussed and practiced, including those associated with newspaper publications. Responsibilities might include photography, graphic design, writing and editing text, and business marketing. The journalism content will be flexible to accommodate developments in media, technology, emerging fields, student engagement, and personalized learning. **(Level 1 Weighting)**

PUBLIC SPEAKING**Course No. 1412****Credit: 0.5****Gr. 9-12**

The purpose of public speaking is to enable students to speak effectively in both formal and informal settings. The first few weeks of the course will focus on communication fundamentals, overcoming stage fright; sharing of self; interpersonal, group, and public communications; listening skills; analyzing audience; verbal and nonverbal communication; and speech delivery. The course will then emphasize the principles of oral interpretation, and students will have opportunities to practice the techniques to present various literary selections, individually and chorally. Following the instruction on how to write a speech, students will deliver various presentations: a formal speech about self, a speech for a special occasion, an informative speech, and an impromptu speech. At the conclusion of the course, students should feel confident to plan, prepare, rehearse, and present speeches for various purposes and in a variety of speaking situations. **(Level 1 Weighting)**

SMALL GROUP COMMUNICATION (Offered alternate years)**Course No. 1262****Credit: 0.5****Gr. 9-10**

This course will explore interpersonal communication and the factors that affect it, including group dynamics, conflict resolution, the impact of context on communication, how power impacts relationships, and the evolution of interpersonal communication through technology and social networking. Students will explore content related to these topics and practice through a variety of discussions, simulations, role-playing, group projects, presentations, and other assessments. **(Level 1 Weighting)**

YEARBOOK PUBLICATIONS**Course No. 1241****Credit: 0.5****Gr. 9-12**

This course is designed for a student who has an interest in print and visual media. Emphasis is on preparing the school yearbook for publication. Journalistic techniques will be discussed and practiced, including those associated with yearbook publications. Responsibilities might include photography, graphic design, writing and editing text, and business marketing. **(Level 1 Weighting)**

READING SUPPORT

The following courses are required courses for students who have demonstrated a need for additional skill development in reading.

ACADEMIC LITERACY A

Course No. 1551

Credit: 1

Gr. 9-12

This course is designed to enhance students' reading skills for lifelong learning. The course will emphasize decoding, fluency, reading comprehension, and constructive responses to reading selections. Enrollment in this course is based on student data such as previous PSSA scores, state-provided benchmark assessments, district-constructed assessments, and teacher recommendations.

(Level 1 Weighting)

ACADEMIC LITERACY B

Course No. 1552

Credit: 1

Gr. 10-12

This course is designed to enhance students' reading skills for lifelong learning and to prepare students for success. The course will emphasize reading comprehension and constructive responses to of fiction and non-fiction reading selections. Enrollment in this course is based on student data such as previous PSSA scores, state-provided benchmark assessments, district-constructed assessments, Keystone testing, and teacher recommendations. The course stresses essential reading strategies necessary to achieve proficiency on the Literature Keystone. **(Level 1 Weighting)**

MATHEMATICS

Three (3) mathematics credits are required for graduation (Algebra 1, Geometry, and Algebra 2). College-bound students are encouraged to take advanced math courses through their senior year.

Students will use a calculator to save time when lengthy calculations are unavoidable, to check solutions to problems, or as a tool to learn or enhance mathematical concepts. Students should have access to a graphing calculator. The recommended calculator is the TI-84 Plus Graphing Calculator.

COLLEGE PREP ALGEBRA 1

Course No. 4011

(Placement based on 8th grade performance data)

Credit: 1

Gr. 9-10

College Prep Algebra 1 content includes but is not limited to the real number system, equations and inequalities, linear equations and inequalities, systems of linear equations and inequalities, exponents and polynomials, factoring and applications, and data analysis. This course has been developed in accordance with the Algebra 1 Keystone Assessment Anchors and Eligible Content. To graduate, students are required to be proficient on the Algebra 1 Keystone Exam given as the final for the course. Ten percent (10%) of the final course grade is based on Keystone Exam performance. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 1 Weighting)**

ALGEBRA 1A

Course No. 4012A

(Placement based on 8th grade performance data)

Credit: 1

Gr. 9

Algebra 1A is the first course in a two-course sequence to fulfill the Algebra 1 requirement, taken in the first semester. Students in this course also enrolled in Algebra 1B in the second term of the same school year. Content includes the real number system, equations and inequalities, linear equations and inequalities, and systems of linear equations and inequalities. This course has been developed in accordance with the Algebra 1 Keystone Assessment Anchors and Eligible Content. **(Level 1 Weighting)**

ALGEBRA 1B

Course No. 4012B

(Prerequisite: Algebra 1A or equivalent)

Credit: 1

Gr. 9

Algebra 1B is the second course in a 2-course sequence to fulfill the Algebra 1 requirement, to be taken in the spring after completion of Algebra 1A. Content includes exponents and polynomials, factoring and applications, and data analysis. This course has been developed in accordance with the Algebra 1 Keystone Assessment Anchors and Eligible Content. To graduate, students are required to be proficient on the Algebra 1 Keystone Exam given as the final for the course. Ten percent (10%) of the final course grade is based on Keystone Exam performance. **(Level 1 Weighting)**

PRE-ALGEBRA

Course No. 4012A

(Placement based on 8th grade performance data)

Credit: 1

Gr. 9

Pre-Algebra is designed to prepare students for an Algebra 1 course. Content will include topics that are important for success in Algebra 1 including operations with real numbers, solving equations and inequalities, and data analysis. The course also focuses on identifying and remediating individual student skill gaps in mathematics. **(Level 1 Weighting)**

MATH PLUS

Course No. 4515

(Prerequisite: Algebra 1, Algebra 1B or College Prep Algebra 1)

Credit: 1

Gr. 10-11

This course is designed to improve students' skills in Algebra. Content includes the real number system, equations and inequalities, linear equations and inequalities, systems of linear equations and inequalities, exponents and polynomials, factoring and applications, and data analysis. This course has been developed in accordance with the Algebra 1 Keystone Assessment Anchors and Eligible Content. Students will take the Algebra 1 Keystone Exam at the end of the semester they are enrolled in the course. **(Level 1 Weighting)**

HONORS GEOMETRY**Course No. 4010H****(Prerequisite: 80% in 8th grade Algebra 1, or 90% in College Prep Algebra 1, or Teacher Recommendation)****Credit: 1****Gr. 9-10**

Honors Geometry content includes but is not limited to traditional geometric topics, triangle trigonometry, and proofs taught through a formal, algebra-intensive approach at a fast pace. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 2 Weighting)**

COLLEGE PREP GEOMETRY**Course No. 4021****(Prerequisite: 75% in College Prep Algebra 1, 90% in Algebra 1B, or Teacher Recommendation)****Credit: 1****Gr. 9-11**

College Prep Geometry content includes geometric topics, triangle trigonometry, probability, and proofs taught using a formal and algebra-intensive approach. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 1 Weighting)**

GEOMETRY**Course No. 4022****(Prerequisite: Successful completion of Algebra 1)****Credit: 1****Gr. 10-11**

Geometry content includes traditional geometric topics and triangle trigonometry with an emphasis on practical applications. The course will also help students strengthen their algebra skills. This course is designed for students pursuing a career immediately after high school or a 2-year college degree. **(Level 1 Weighting)**

HONORS ALGEBRA 2**Course No. 4020H****(Prerequisite: 80% in Honors Geometry, 90% in College Prep Geometry, or Teacher Recommendation)****Credit: 1****Gr. 9-10**

Honors Algebra 2 content includes but is not limited to quadratic equations and functions, advanced factoring, transformations of parent functions, polynomial functions, radical functions, rational functions, and an introduction to logarithms. The course is taught through a formal and intense approach at a fast pace. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 2 Weighting)**

COLLEGE PREP ALGEBRA 2**Course No. 4031****(Prerequisite: 75% in College Prep Geometry, 90% in Geometry, or Teacher Recommendation)****Credit: 1****Gr. 9-11**

College Prep Algebra 2 content includes but is not limited to quadratic equations and functions, polynomial functions and advanced factoring, radical functions, and an introduction to logarithms. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 1 Weighting)**

ALGEBRA 2**Course No. 4032****(Prerequisite: Successful completion of Geometry)****Credit: 1****Gr. 10-11**

Algebra 2 topics will be presented at a pace that allows time for students to strengthen their algebra skills. Content includes but is not limited to extensions of the algebra 1 strands, quadratic functions, and polynomials. This course is designed for students pursuing a career immediately after high school or a 2-year college degree. **(Level 1 Weighting)**

ALGEBRA 3**Course No. 4042****(Prerequisite: Successful completion of Algebra 2 or Teacher Recommendation)****Credit: 1****Gr. 11-12**

Algebra 3 is intended for students who are not yet ready for College Prep Pre-Calculus. Content includes but is not limited to, extensions of the Algebra 2 strands, graphing and transforming functions, exponentials, logarithms, and trigonometry. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 1 Weighting)**

HONORS PRE-CALCULUS**Course No. 4030H****(Prerequisite: 80% in Honors Algebra 2, 90% in College Prep Algebra 2, or Teacher Recommendation)****Credit: 1****Gr. 11-12**

Honors Pre-Calculus is an introductory calculus theory is introduced in this course. Topics include conic sections, exponential and logarithmic functions, sequence and series, trigonometry, and limits. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 2 Weighting)**

COLLEGE PREP PRE-CALCULUS

Course No. 4041

(Prerequisite: 75% in College Prep Algebra 2 or Teacher Recommendation)**Credit: 1****Gr. 11-12**

This course prepares students for calculus. Topics include functions and transformations, conic sections, exponential and logarithmic functions, sequence and series, trigonometry, and limits. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 1 Weighting)**

HONORS CALCULUS 1

Course No. 4060H

(Prerequisite: 80% in Honors Pre-Calculus, 90% in College Prep Pre-Calculus, or Teacher Recommendation)**Credit: 1****Gr. 11-12**

Honors Calculus 1 covers many of the topics taught in a first-year college Calculus course including limits, differentiation, and integration. This course is designed for students interested in pursuing a college degree or other post-secondary studies. This course also serves as a prerequisite for AP Calculus AB for students interested in taking the AP Calculus AB exam. **Students interested in taking AP Calculus AB must enroll in Honors Calculus 1 and AP Calculus AB in the same school year. (Level 2 Weighting)**

AP CALCULUS AB (\$)

Course No. 4040AP

(Prerequisite: 80% Honors Calculus 1 or Teacher Recommendation)**Credit: 1****Gr. 11-12**

This course prepares students to take the AP Calculus AB exam and expands on topics introduced in Honors Calculus 1. Successful completion of the AP Calculus AB exam gives students 4 credits in Calculus at most colleges and universities. **Students enrolling in this course must also enroll in Honors Calculus 1 in the same school year. (Level 3 Weighting)**

AP CALCULUS BC (\$)

Course No. 4050AP

(Prerequisite: 80% in Honors Pre-Calculus, 90% in College Prep Pre-Calculus, or Teacher Recommendation)**Credits: 2****Gr. 11-12**

This year-long, 2-credit course prepares students to take the AP Calculus BC exam. Successful completion of the AP Calculus BC exam gives students 8 credits in Calculus at most colleges and universities. Topics covered in the course include limits, differentiation, integration, series, and application problems. **(Level 3 Weighting)**

HONORS STATISTICS

Course No. 4840H

(Prerequisite: 80% in Honors Algebra 2, 90% in College Prep Algebra 2, or Teacher Recommendation)**Credit: 1****Gr. 11-12**

This course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, sampling, and experimentation, anticipating patterns, and statistical inference. This course is designed for students interested in pursuing a college degree or other post-secondary studies. This course also serves as a prerequisite for AP Statistics for students who want to take the AP Statistics exam. **Students interested in taking AP Statistics must enroll in Honors Statistics and AP Statistics in the same school year. (Level 2 Weighting)**

COLLEGE PREP STATISTICS

Course No. 4840

(Prerequisite: 75% in College Prep Algebra 2, 90% in Algebra 2, or Teacher Recommendation)**Credit: 1****Gr. 11-12**

This course helps prepare students for careers in math, science, health careers, business, social sciences, and education. Content includes measures of central tendency and dispersion, hypothesis testing, and probability distributions. This course is designed for students interested in pursuing a college degree or other post-secondary studies.

(Level 1 Weighting)**AP STATISTICS (\$)**

Course No. 4840AP

(Prerequisite: 80% in Honors Statistics or Teacher Recommendation)**Credit: 1****Gr. 11-12**

This course prepares students to take the AP Statistics exam and expands on topics introduced in Honors Statistics. Successful completion of the AP Statistics exam gives students 3 credits at many colleges and universities. **Students enrolling in this course must also enroll in Honors Statistics in the same school year. (Level 3 Weighting)**

SCIENCE

Principles of Science and Biology are required classes taken during 9th and 10th grades. Per graduation requirements, students must earn three (3) credits of science. The courses offered in the science department involve inquiry-based laboratory experiments designed to bring relevance and meaning to course content. The science department also strives to incorporate STEM (Science, Technology, Engineering and Mathematics) into the courses offered.

Students planning to attend a college, university, or vocational-technical school to pursue a STEM-related field should take chemistry and physics to achieve four (4) credits of science. In addition, these students should consider scheduling other rigorous science electives such as AP courses and other department electives in order to craft an education based on a particular area(s) of interest.

Students pursuing non-STEM fields at a four-year college/university, should graduate CVHS with chemistry and/or physics. To prepare for the academic experience at a four-year college/university, the fourth CVHS science credit should come from one or more of the many rigorous science electives. For students not attending a post-high school institution, the department has a variety of electives to meet a wide range of student needs and interests at CVHS.

Distinguished Honors Science Student: To receive this recognition, a student must complete the following by the end of their 11th grade year:

- Students must earn an A or B in all four core science classes (Principles of Science, Biology, Chemistry, and Physics).
 - At least three of these science classes must be at the honors level.
- Students must earn an A or B in at least one Honors Scientific Research and Design course (3615H), which requires a successful presentation of a science fair project at the North Museum Science and Engineering Fair (NMSEF).

HONORS PRINCIPLES OF SCIENCE

Course No. 301501H

(Placement based on 8th grade performance data and successful completion of Algebra 1)

Credit: 1

Gr. 9

Honors Principles of Science is the first course offered in science for 9th grade students. This course concentrates on matter's behavior, energy and the states of matter, Newtonian Motion, and forces. Students who select this course should be prepared to complete a significant amount of independent work both in and outside of the classroom. Honors science is a demanding course with high academic expectations. Application of algebraic principles is necessary for the successful completion of this course. This course is designed for students interested in pursuing a four-year college degree in STEM-related fields. **(Level 2 Weighting)**

COLLEGE PREP PRINCIPLES OF SCIENCE

Course No. 301501

(Placement based on 8th grade performance data)

Credit: 1

Gr. 9

College prep Principles of Science is the first course offered in science for 9th grade students. This course concentrates on matter's behavior, energy and the states of matter, Newtonian Motion, and forces. Students who select this course should be prepared to complete independent work both in and outside of the classroom. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 1 Weighting)**

PRINCIPLES OF SCIENCE

Course No. 301601

(Placement based on 8th grade performance data)

Credit: 1

Gr. 9

Principles of Science is the first course offered in science for 9th grade students. This course concentrates on matter's behavior, energy and the states of matter, Newtonian Motion, and forces. This course is designed for students pursuing a career immediately after high school or a 2-year college degree in fields other than science. **(Level 1 Weighting)**

HONORS BIOLOGY

Course No. 3021H

(Prerequisite: 80% in Honors Principles of Science, 90% in College Prep Principles of Science, or Teacher Recommendation)

Credit: 1

Gr. 9-10

This rigorous, inquiry-based course designed for students seeking an in-depth understanding of living systems through the lens of the STEELS standards (Science, Technology, Engineering, Environmental Literacy, and Sustainability). The course emphasizes scientific reasoning, data analysis, and real-world applications of biological concepts. Ten percent (10%) of the final course grade is based on Keystone Exam performance. This course is designed for students interested in pursuing a four-year college degree in STEM-related fields. **(Level 2 Weighting)**

COLLEGE PREP BIOLOGY**Course No. 3021****(Prerequisite: 75% in College Prep Principles of Science, 90% in Principles of Science, or Teacher Recommendation)****Credit: 1****Gr. 9-10**

This inquiry-based course is designed for students seeking an in-depth understanding of living systems through the lens of the STEELS standards (Science, Technology, Engineering, Environmental Literacy, and Sustainability). The course emphasizes scientific reasoning, data analysis, and real-world applications of biological concepts. Ten percent (10%) of the final course grade is based on Keystone Exam performance. This course is designed for students interested in pursuing a college degree or other post-secondary studies.

(Level 1 Weighting)**BIOLOGY****Course No. 3022****(Prerequisite: Successful completion of Principles of Science)****Credit: 1****Gr. 9-10**

Biology is an inquiry-based course designed for students seeking an in-depth understanding of living systems through the lens of the STEELS standards (Science, Technology, Engineering, Environmental Literacy, and Sustainability). The course emphasizes scientific reasoning, data analysis, and real-world applications of biological concepts. Ten percent (10%) of the final course grade is based on Keystone Exam performance. This course is designed for students pursuing a career immediately after high school or a 2-year college degree in fields other than science. **(Level 1 Weighting)**

SCIENCE ELECTIVES (ONE SEMESTER)

HONORS CHEMISTRY

Course No. 3031H

(Prerequisite: 80% in College Prep Algebra 1. 80% in Honors Biology, or 90% in College Prep Biology or Teacher Recommendation)

Credit: 1

Gr. 10-12

The Honors Chemistry course is a more comprehensive alternative to the college prep chemistry curriculum. Topics covered include chemical change, atomic and molecular structure, chemical bonding, the behavior of gases, chemical energy, and stoichiometry. Laboratory work is correlated with the classroom material to acquaint the student with basic laboratory procedures. Real-world applications are stressed, and inquiry-based activities are performed to develop observational skills and analytical thought processes. Students who select this course should be prepared to complete a significant amount of independent work both in and outside of the classroom. Honors science is a demanding course with high academic expectations. Application of algebraic principles is necessary for the successful completion of this course. This course is designed for students interested in pursuing a four-year college degree in STEM fields. **(Level 2 Weighting)**

COLLEGE PREP CHEMISTRY

Course No. 3031

(Prerequisite: 75% in College Prep Algebra 1. 80% in College Prep Biology, 90% in Biology or Teacher Recommendation)

Credit: 1

Gr. 10-12

This course includes studies of chemical change, atomic and molecular structure, chemical bonding, the behavior of gasses, chemical energy, and stoichiometry. Laboratory work is correlated with the classroom material to acquaint the student with basic laboratory procedures. Real-world applications are stressed, and inquiry-based activities are performed to develop observational skills and analytical thought processes. Application of algebraic principles is necessary for the successful completion of this course. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 1 Weighting)**

CHEMISTRY

Course No. 3032

(Prerequisite: Successful completion of Biology)

Credit: 1

Gr. 11-12

Students taking this course will study chemistry in the context of work, home, society, and the environment. Topics include the chemistry of food, water, metals, crystals, and petroleum products. Practical applications, mathematical proportions, and authentic chemistry will be stressed. This course is designed for students pursuing a career immediately after high school or a 2-year college degree in fields other than science. **(Level 1 Weighting)**

HONORS PHYSICS (FIRST SEMESTER ONLY)

Course No. 3431H

(Prerequisite: 80% in Honors Algebra 2. 80% in Honors Chemistry or Honors Biology, or 90% in College Prep Chemistry or College Prep Biology or Teacher Recommendation)

Credit: 1

Gr. 11-12

Honors Physics is a more comprehensive alternative to the traditional Physics curriculum. This course provides a logical presentation of classical mechanics concepts: kinematics, forces and motion, work, energy, power, rotational motion, momentum, gravitation, and simple harmonic motion. Trigonometry, algebra, and graphical analysis are applied to these concepts to interpret and analyze real-world situations. Laboratory work is a key aspect of this course as all topics are introduced through the use of a paradigm lab experience, student discourse, and critical thinking (not lecture). Students who select this course should be prepared to complete a significant amount of independent work both in and outside of the classroom. Honors science is a demanding course with high academic expectations. This course is designed for students interested in pursuing a four-year college degree in STEM-related fields as well as students who must take college physics as part of their major.

(Level 2 Weighting)

COLLEGE PREP PHYSICS

Course No. 3431

(Prerequisite: 80% in College Prep Algebra 2 or Teacher Recommendation)

Credit: 1

Gr. 11-12

College Prep Physics is offered for those students wishing to gain the necessary scientific background preparation for education beyond high school. This course provides a logical presentation of concepts in classical mechanics: kinematics, forces and motion, energy and momentum. Algebra and graphical analysis are applied to these concepts to interpret and analyze the real world. Laboratory work is a key aspect of this course as all topics are introduced using a paradigm lab experience, student discourse, and critical thinking (not lecture). The course will cover the following topics: Kinematics, Forces, Newton's Laws, Work, Energy, Power, Circular Motion, and Momentum. This course is designed for students interested in pursuing a four-year college degree in a non-STEM-related field and earning vocational training. **(Level 1 Weighting)**

PHYSICS**Course No. 345001****(Prerequisite: 75% in Algebra 2 or Teacher Recommendation)****Credit: 1****Gr. 11-12**

Physics is offered for those students wishing to gain a conceptual understanding of how forces, fluids, heat, and electricity affect our everyday lives. This course provides a logical presentation of motion, forces, energy, momentum, fluid mechanics, and electricity. Laboratory work is a key aspect of this course to introduce these concepts using a lab experience, student discourse, and critical thinking (not lecture). This course focuses on the practical application of physics to real-world applications. It is not a preparatory course for college physics. **(Level 1 Weighting)**

HONORS SCIENTIFIC RESEARCH (FIRST SEMESTER ONLY)**Course No. 3610H****(Prerequisite: 80% in any Honors science course or 90% in any College Prep science course)****Credit: 1****Gr. 10-12**

Using the scientific method, participants in this course will identify a researchable topic and pursue a scientific examination of this issue. The class meets one block per day in the fall semester for instruction and to assist students with their scientific research, analysis, and presentation preparation for the completion of a Science Fair project. Students are required to compete in the local CVSD Science Fair before the end of the first semester and will have the opportunity to compete in the North Museum Science and Engineering Fair in the spring. **(Level 2 Weighting)**

HONORS SCIENCE FAIR**Course No. 3615H****(Prerequisite: Successful completion of Honors Scientific Research and Teacher recommendation)****Credit: 0.5****Gr. 10-12**

After participation in the CVSD STEM Expo at the end of the first semester, qualifying students will be invited to independently continue with their research in preparation for the North Museum Science and Engineering Fair (NMSEF) in the spring. This is an independent study course completed outside of the student's five-block schedule. Course 3615H is a 0.5 credit honors independent research class providing potential academic credit for students completing independent research science fair projects with the requirement of presenting at the NMSEF. **(Level 2 Weighting)**

COLLEGE PREP ECOLOGY (SECOND SEMESTER ONLY) (\$)**Course No. 3221****(Prerequisite: Successful completion of Biology)****Credit: 1****Gr.10-12**

The goal of the ecology course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships in the natural world through directed fieldwork and research. Students will investigate how the non-living things in the environment influence the plants and animals that can be found in those areas. Through fieldwork and studying geographic information system (GIS) data, students will also identify and analyze environmental problems that are both natural and human made. Students will learn to evaluate the relative risks associated with these problems and to offer a spectrum of solutions for resolving and/or preventing these problems. To cover the cost of consumable lab materials and field transportation a lab fee of \$20 is required for this course.

(Level 1 Weighting)**COLLEGE PREP FRESHWATER BIOLOGY (\$)****Course No. 3132****(Prerequisite: Successful completion of Biology)****Credit: 1****Gr. 10-12**

Students will monitor the flow of the Stauffer Run (a local stream by the high school), and collect data on both the chemical and biological factors that travel to the final destination of the Chesapeake Bay. Using the technology of the spectrophotometer, students will be able to determine the health of the stream and what chemical components are being sent to the bay. Data will be sent to a variety of collection banks and the students will also create a presentation on the benthic critters that they observe in their weekly fieldwork. The student will have an understanding of their agricultural area and how it affects the bay. Studying freshwater ecosystems will afford the students the needed knowledge for them to be part of protecting the bay and making them environmentally proactive. To balance the land and water connection, the students will complete a waste management/recycling unit and create a stormwater management plan. To cover the cost of consumable lab materials and field transportation a lab fee of \$20 is required for this course. **(Level 1 Weighting)**

SCIENCE ELECTIVES (ONE MARKING PERIOD)

ASTRONOMY

Course No. 3410005

(Prerequisite: Successful completion of Principles of Science)

Credit: 0.5

Gr. 10-12

This marking period course will focus on student interest in astronomical events. Base concepts in areas of near-Earth objects (i.e. asteroids, comets, etc.), exogeology (i.e. planetary geology, moons, exoplanet detector model, etc.), and deep space phenomenon (i.e. black holes, quasars, laser interferometer, neutron stars, etc.) will be explored. Students have the opportunity to select a variety of topics and develop a series of presentations showcasing their learning (and interest) in astronomical topics. **(Level 1 Weighting)**

ANATOMY & PHYSIOLOGY A (\$)

Course No. 3053

(Prerequisite: 75% in College Prep Biology, 90% in Biology, or Teacher Recommendation)

Credit: 0.5

Gr. 11-12

This lab-based science course prepares students for post-graduation studies in a wide variety of health-science careers that require advanced study of the structure and function of the human body. Units of study include the blood and cardiovascular system, respiratory system, excretory system, and digestive system. This science course is designed for those students who may be pursuing careers in: all science fields, nursing, physical therapy, occupational therapy, sports medicine, health & physical education teacher certification, or medicine may have a particular interest in this course of study. To cover the cost of consumable lab materials a fee of \$15 is required for this course. **(Level 1 Weighting)**

ANATOMY & PHYSIOLOGY B (\$)

Course No. 3054

(Prerequisite: 75% in College Prep Biology, 90% in Biology, or Teacher Recommendation)

Credit: 0.5

Gr. 11-12

This lab-based science course prepares students for post-graduation studies in a wide variety of health-science careers that require advanced study of the structure and function of the human body. Units of study include the skeletal system, muscular system, and nervous system. This science course is designed for those students who may be pursuing careers in: all science fields, nursing, physical therapy, occupational therapy, sports medicine, health & physical education teacher certification, or medicine may have a particular interest in this course of study. To cover the cost of consumable lab materials a fee of \$15 is required for this course. **(Level 1 Weighting)**

BIOTECHNOLOGY (\$)

Course No. 3800005

(Prerequisite: 75% in College Prep Biology, 90% in Biology, or Teacher Recommendation)

Credit: 0.5

Gr. 10-12

In this lab and project-based course, students will learn about DNA and protein analysis, genetic engineering, and plant genomics. The course provides a foundation for the lab techniques and skills needed in science-related majors and careers. Ethical considerations and regulatory frameworks governing biotechnological advancements will be discussed, fostering critical thinking about the societal implications of biotechnological innovations. Students who are interested in biology, genetics, medicine, GMOs, agriculture, and/or research will benefit from this course. By the end of the course, students will have a solid foundation in biotechnology, enabling them to understand its impact on the world and to explore career paths in research, development, and applied sciences. There is a \$15 lab fee to cover the cost of lab consumables. **(Level 1 Weighting)**

CHEMISTRY IN THE KITCHEN (\$)

Course No. 3100005

Credit: 0.5

Gr. 10-12

Become a better cook by understanding the principles behind cooking. This course allows students to learn the chemistry behind cooking ingredients and processes. Students will also explore how new food products are launched and marketed, and design a new product, conduct marketing research, design packaging, and present their work to others. The course is designed to experiment with cooking ingredients and techniques, not to follow recipes. Students will be expected to do some cooking projects at home. There is a \$10 lab fee to cover the cost of lab consumables. **(Level 1 Weighting)**

FORENSICS SCIENCE (\$)

Course No. 3400005

Credit: 0.5

Gr. 10-12

This course explores techniques used by crime scene investigators and forensic scientists that have been made popular by current TV crime shows. Topics covered include fingerprinting, ballistics, DNA, blood, fiber, hair, and handwriting analysis. You will be asked to apply the scientific process to a number of types of evidence and criminal cases examined in this class. Some of the cases take place virtually and others use hard evidence that is worked on in the lab. The course also explores documentaries of famous criminals to further understand the criminal mind and how forensic techniques were used to solve the crimes. This class will give students a better understanding of how the field of forensic science operates on a daily basis. There is a \$15 lab fee to cover the cost of lab consumables. **(Level 1 Weighting)**

ADVANCED PLACEMENT SCIENCE ELECTIVES

AP BIOLOGY (FULL YEAR COURSE) (\$)

Course No. 3029AP

(Prerequisite: 80% in Honors Biology, 90% in College Prep Biology, or Teacher Recommendation)

Credits: 2

Gr. 11-12

AP biology is designed for students who are interested in expanding their knowledge of biology. Topics include biochemistry, cells, bioenergetics, molecular genetics, classical genetics, evolution, and ecology. There is a strong emphasis on laboratory work. Students are strongly encouraged to take the AP test in May. Students who earn a 3 or higher out of 5 on the AP Biology exam may be exempt from up to two introductory college biology courses. To cover the cost of consumable lab materials a fee of \$40 is required for this course.

(Level 3 Weighting)

AP CHEMISTRY (FULL YEAR COURSE) (\$)

Course No. 3340AP

(Prerequisite: 80% in Honors Chemistry, 90% in College Prep Chemistry, or Teacher Recommendation)

Credits: 2

Gr. 11-12

Advanced Placement Chemistry is designed for the interested and capable student who has completed chemistry and is interested in expanding his or her knowledge base of chemistry. More mathematical applications and abstract chemical concepts will be studied in this course. An emphasis is based on laboratory connections to content material. Students are strongly encouraged to take the AP test in May. To cover the cost of consumable lab materials a lab fee of \$40 is required for this course. **(Level 3 Weighting)**

AP ENVIRONMENTAL SCIENCE (\$)

Course No. 3230AP

(Prerequisite: 80% in Honors Biology, 90% in College Prep Biology, or Teacher Recommendation)

Credit: 1

Gr. 11-12

AP Environmental Science (APES) is a course that focuses on understanding the interrelationships of the natural world and to identify and analyze environmental systems that are both natural and human made. Students will also prepare for the APES Exam through a focused study of exam eligible content. The course is structured to foster strength in reading and writing to address free response and case study questions on the APES Exam. Students will complete lab and field work through a number of trips to local field settings to focus their attention on developing the knowledge and skills necessary to be successful in data collection, processing, and analysis, as well as to facilitate the application of course concepts to the world around them. Students will also complete a number of small- and large-scale projects aimed at expanding student knowledge and giving students extensive opportunities to be creative problem solvers. To cover the cost of consumable lab materials and field transportation, a \$20 lab fee is required for this course. **(Level 3 Weighting)**

AP PHYSICS 1 - MECHANICS (CHS option through Harrisburg University) (\$)

Course No. 3430AP

(Prerequisite: 80% in Honors Precalculus. 80% Honors Physics or Teacher Recommendation)

Credit: 1

Gr. 11-12

AP Physics 1 is intended for students who are entering STEM-related fields. This course provides a logical presentation of concepts and a broad range of applications to the real world. Calculus, trigonometry, geometry, and algebra will be applied to Physics concepts to analyze real-world situations. The course will cover the following topics: Kinematics, Forces and Motion, Rotational Motion, Work, Energy, Power, Momentum, Simple Harmonic Motion, Gravitation, Waves/Optics (time permitting). Students may choose to take the **AP Physics 1: Algebra-Based** exam or can obtain college credit through Harrisburg University. If choosing the Harrisburg University option, students are required to take a final exam provided by the university, which is not included in their overall course grade for CV, and pay course fees to Harrisburg University. Students who are enrolled in or who have finished AP Calculus BC have the option of completing additional coursework to prepare them for the **AP Physics C: Mechanics exam. (Level 3 Weighting)**

SOCIAL STUDIES

All students are required to successfully complete U. S. History 1, U. S. History 2, World History or World Cultures, and U. S. Government.

HONORS U.S. HISTORY 1

Course No. 2011H

(Placement based on 8th grade performance data)

Credit: 1

Gr. 9

Social, political, geographical, economic, and cultural history is interwoven in this comprehensive survey of the United States from the Era of Good Feelings through the Progressive Era. Students are required to do additional readings, writings, and projects beyond the college prep course curriculum. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 2 Weighting)**

COLLEGE PREP U.S. HISTORY 1

Course No. 2011

(Placement based on 8th grade performance data)

Credit: 1

Gr. 9

Social, political, geographical, economic, and cultural history is interwoven in this comprehensive survey of the United States from the Era of Good Feelings through the Progressive Era. Extensive reading, writing, and research are required. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 1 Weighting)**

U.S. HISTORY 1

Course No. 2012

(Placement based on 8th grade performance data)

Credit: 1

Gr. 9

Social, political, geographical, economic, and cultural history is interwoven in this comprehensive survey of the United States from the Era of Good Feelings through the Progressive Era. This course is designed for students pursuing a career immediately after high school or a 2-year college degree. **(Level 1 Weighting)**

HONORS U.S. HISTORY 2

Course No. 2012H

(Prerequisite: 80% in Honors U.S. History 1, 90% in College Prep U.S. History 1, or Teacher Recommendation)

Credit: 1

Gr. 10-12

This course traces and analyzes the central developments in U.S. History from the Progressive Era to the present. This period in U.S. History is characterized by dramatic and sweeping political, economic, social, and cultural change, as well as expanding global engagement. Students will study themes such as the definition of citizenship and the expanding role of government in citizens' lives, development of an industrial economy, global interventions such as the U.S. role as a Cold War superpower, response to economic collapse and war, migration, and immigration, ethnic identity, race relations, gender roles, and labor rights. Also, examine how various groups of Americans have challenged the status quo in a determined expectation that the United States should live up to the promise of its founding ideals of equality and freedom. Students will interpret primary and secondary sources, learn to read and construct historiographical arguments, and hone analytical and evidenced based writing skills. **(Honors: Level 2 Weighting)**

COLLEGE PREP U.S. HISTORY 2

Course No. 2021

(Prerequisite: 75% in College Prep U.S. History 1, 90% in U.S. History 1, or Teacher Recommendation)

Credit: 1

Gr. 10

Social, political, geographical, economic, and cultural history is interwoven in this comprehensive survey of the United States from the Progressive Era to the present. The approach is chronological, and the perspective is global. Extensive reading, writing, and research are required. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 1 Weighting)**

U.S. HISTORY 2

Course No. 2022

Credit: 1

Gr. 10

Social, political, geographical, economic, and cultural history is interwoven in this comprehensive survey of the United States from the Progressive Era to the present. Basic reading, writing, and research are required. This course is designed for students pursuing a career immediately after high school or a 2-year college degree. **(Level 1 Weighting)**

HONORS WORLD HISTORY**Course No. 2031H****(Prerequisite: 80% in Honors U.S. History 2, 90% in College Prep U.S. History 2, or Teacher Recommendation)****Credit: 1****Gr. 11**

Honors World History is an accelerated course that examines the impact of global civilizations from ancient times to the present, fostering a deep understanding of how historical events, cultural movements, and political philosophies have shaped the world. Students will investigate key forces that influenced human history through primary and secondary sources, discussions, and critical writing. This course provides a comprehensive exploration of global history, preparing students for advanced academic work. Thematic units cover the formation of empires, the development of major religions and scientific revolutions, as well as power dynamics, economic evolution, and technology's role in shaping societies. Students will explore the legacies of conflict, colonization, and trade, connecting past events to modern global issues. **(Level 2 Weighting)**

COLLEGE PREP WORLD HISTORY**Course No. 2031****(Prerequisite: 75% in College Prep U.S. History 2, 90% in U.S. History 2, or Teacher Recommendation)****Credit: 1****Gr. 11**

This course provides a comparative study of World History, examining major developments that shaped the modern world. Key themes include the rise of the global economy and the obstacles it faced, the impact of secular and scientific thinking, and the evolution of ideologies in response to global shifts, colonization, and the Enlightenment. Students will explore how ideologies like nationalism, capitalism, and socialism influenced social reforms, independence movements, and conflicts over progress. As a rigorous, college-preparatory course, critical thinking, primary source analysis, and research skills are emphasized. Through comparative studies and projects, students will gain insight into the forces shaping our world and build essential skills to become informed global citizens.

(Level 1 Weighting)**COLLEGE PREP WORLD CULTURES****Course No. 2035****(Prerequisite: 75% in College Prep U.S. History 2, 90% in U.S. History 2, or Teacher Recommendation)****Credit: 1****Gr. 11**

In this project-based course, students delve into major world cultures, emphasizing both historical roots and contemporary practices. Students will examine essential cultural themes, including language and communication, religion and belief systems, social structures, customs, art, economy, education, technology, values, government, food, clothing, environment, and migration. Students will develop skills in gathering, evaluating, and synthesizing information while honing decision-making abilities in real-world contexts. Students will also explore how cultural and geographic factors influence trade, migration, environmental sustainability, and global interdependence. This course provides an engaging, hands-on experience emphasizing collaboration, creativity, and critical thinking. Projects include research and presentations. This course satisfies the World History requirement. **(Level 1 Weighting)**

WORLD HISTORY**Course No. 2032****Credit: 1****Gr. 11**

This course is a comparative survey of World History, focusing on the major developments that have shaped the modern world. Key themes include the origins and growth of the global economy and the challenges it has faced, the rise of secular and scientific ideas in politics, the transformation of religion in the modern world, and the influence of technology. **(Level 1 Weighting)**

AP GOVERNMENT & POLITICS: U.S. (\$) **Course No. 2040AP****(Prerequisite: 80% in Honors World History, or 90% in College Prep World History, or Teacher Recommendation)****Credit: 1****Gr. 12**

Content of the course will include our Constitutional underpinnings, political beliefs and behaviors, political parties, interest groups, and the mass media; institutions of the national government, public policy; and civil rights and civil liberties. Students who elect this Advanced Placement course should have the ability to study at an accelerated pace and to study independently. Extensive reading, writing, and research are required. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 3 Weighting)**

COLLEGE PREP U.S. GOVERNMENT**Course No. 2043****(Prerequisite: 75% in College Prep World History, 90% in World History, or Teacher Recommendation)****Credit: 1****Gr. 12**

This is a political science course designed for students to learn the political ideals of democracy and the realities of U.S. political processes. This includes theories of government, a detailed discussion of the United States Constitution, political parties, the role of the Supreme Court, and civic engagement. Current events are an important part of the content. Extensive reading, writing, and research are required. This course is designed for students interested in pursuing a college degree or other post-secondary studies.

(Level 1 Weighting)**U.S. GOVERNMENT****Course No. 2044****Credit: 1****Gr. 12**

The course takes a behavioral approach to the study of government. It emphasizes case studies as a means of helping students understand how individuals can get involved in politics. Current events and local government are important parts of the approach. Basic reading, writing, and research are required. This course is designed for students pursuing a career immediately after high school or a 2-year college degree. **(Level 1 Weighting)**

SOCIAL STUDIES ELECTIVES

The following courses are social studies electives. These courses do not fulfill the four (4) credits of social studies classes required for graduation: U.S. History 1 & 2, World History, and U.S. Government. These courses are counted as elective credits required for graduation.

INTERNATIONAL RELATIONS

Course No. 2225

Credit: 0.5

Gr. 9-12

International Relations is a survey course designed to train the next generation of global citizens. It examines how countries collaborate to manage the crises and opportunities facing our planet. This course responds to current events and gives students the opportunity to examine international conflicts, U. S. diplomacy, humanitarian affairs, human rights issues, and the foreign policy of countries around the world. Students will gain real-world skills through hands-on diplomacy simulations and collaborative projects in addition to more traditional learning formats and independent research. **(Level 1 Weighting)**

WORLD MYTHOLOGY AND FOLKLORE

Course No. 2231005

Credit: 0.5

Gr. 9-12

This course provides an overview of mythology and its relationship to ancient cultures and cultures today. The course covers the purposes and types of myths; the development of myths and mythological characters; the common elements of mythological structures; the predominant characteristics of heroes in myth; the conflicts heroes encounter, and how ancient heroes relate to heroes today. Additionally, folk tales that convey elements of culture will be discussed and compared to American folk tales. This course has no prerequisites and is open to all grades at the high school. **(Level 1 Weighting)**

HONORS COGNITIVE PSYCHOLOGY

Course No. 2444

Credit: 0.5

Gr. 10-12

Are you interested in learning how to learn? Students in this course will learn how to incorporate the principles of Cognitive Psychology to achieve success in the classroom. With a focus on attention, information processing, forgetting, and effective learning strategies. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 2 Weighting)**

SOCIOLOGY

Course No. 2332

Credit: 0.5

Gr. 11-12

Introductory sociology examines the way people interact with one another. It involves relationships within groups, relationships in social institutions and the organization of societies. The course provides students with an opportunity to relate classroom activities to the social world around them. This course is designed for students interested in pursuing a college degree or other post-secondary studies.

(Level 1 Weighting)

PSYCHOLOGY

Course No. 2442

Credit: 0.5

Gr. 11-12

Introductory psychology examines the behavior of the individual. Emphasis is placed on preparing students for an introductory psychology course in college and / or taking AP Psychology, through the writing and analytical skills expected, and the topics discussed. Topics include psychological theory and history, (including Freud), memory, learning, personality, and abnormal psychology. Students are expected to participate in class activities, discussions, and to complete case studies and application-based tests. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 1 Weighting)**

AP PSYCHOLOGY (\$)

Course No. 244202AP

(Prerequisite: 80% in Psychology or Teacher Recommendation)

Credits: 2

Gr. 12

The Advanced Placement Psychology course is designed 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. They also learn about the ethics and research methods psychologists use in their science and practice. **(Level 3 Weighting)**

AFRICAN AMERICAN STUDIES**Course No. 2230005****Credit: 0.5****Gr. 11-12**

This course begins by examining African heritage and the transatlantic slave trade, focusing on the African slave experience and resistance in America. It then explores key events leading up to the Civil War and emancipation. The primary emphasis of the course is on the post-Civil War period, starting with Reconstruction and the evolution of the African American identity during the era of freedom. The legal and systemic efforts to marginalize African Americans through Jim Crow laws and other means will be analyzed. The course also traces the development and impact of the Civil Rights Movement, concluding with exploring contemporary African American life and experiences. **(Level 1 Weighting)**

VIETNAM WAR**Course No. 2232****Credit: 0.5****Gr. 11-12**

The Vietnam War was the most divisive war in American History. This course will offer students an opportunity to study the American military involvement in Southeast Asia. The chronology of the course will begin in the immediate post World War 2 period and conclude with our current relationship with Vietnam. The course will examine many different aspects of the war including military action, the impact on domestic politics, coverage of the war by the media, and the continued influence that the war has had on American culture.

(Level 1 Weighting)**WORLD WAR II****Course No. 2732****Credit: 0.5****Gr. 11-12**

The principal event of the Twentieth Century is examined in detail. The course will look not only at the basics (causes of the war, pre-war diplomacy, and military campaigns) but also the important social developments of the Second World War both in Europe and here at home. Special emphasis will be placed on the beginnings of both the modern Civil Rights Movements and the birth of women's liberation as a result of the domestic demands of a wartime economy. The course will also examine the Holocaust in detail. The course will utilize a variety of instructional materials including military texts, movies, and other first-person accounts of the war. **(Level 1 Weighting)**

ART

Students must take at least one (1) course in art (0.5 credit) to meet graduation requirements.

CERAMICS 1 (\$)

Credit: 0.5

Course No. 8503

Gr. 9–12

This course is designed for students who wish to experience the basics of design through the use of clay. Students will explore the concepts of form and function. Hand-building techniques using slabs, coils, and pinched forms are emphasized. Students will learn the basics of glazing. History, aesthetics, and criticism are integrated with studio processes. A \$10 materials fee is required. **(Level 1 Weighting)**

CERAMICS 2 (\$)

(Prerequisite: Successful completion of Ceramics 1)

Credit: 0.5

Course No. 8513

Gr. 9-12

In this course, students continue to develop concepts and skills begun in Ceramics I. In addition to hand-building forms, students will learn the process of wheel throwing. Students will experiment with a variety of surface finishes. History, aesthetics, and criticism are integrated with studio processes. A \$10 materials fee is required. **(Level 1 Weighting)**

CERAMICS 3 (\$)

(Prerequisite: Successful completion of Ceramics 2)

Credit: 0.5

Course No. 8523

Gr. 10-12

This is an advanced course where students will build on the skills they learned in Ceramics 2. Students will continue to develop wheel-throwing techniques and will concentrate on an area of interest. History, aesthetics, and criticism are integrated with studio processes. Students will create ceramic works of art to add to a college admission portfolio. A \$10 materials fee is required. **(Level 1 Weighting)**

CRAFTS (\$)

Credit: 0.5

Course No. 8506

Gr. 9-12

In this hands-on course, students explore bookmaking, weaving, and creating art by hand. Students learn traditional and modern techniques to design unique handmade objects. The class encourages creativity, craftsmanship, and an appreciation for the art of making things by hand. A \$10 materials fee is required. **(Level 1 Weighting)**

TEXTILES (\$)

Credit: 0.5

Course No. 8516

Gr. 11-12

This course will introduce students to various forms of surface design using assorted materials and textiles. Batik, weaving and tie-dye will be explored. There will be opportunities to develop individual concepts, with emphasis on personal expression. History, aesthetics and criticism are integrated with studio processes. A \$10 materials fee is required. **(Level 1 Weighting)**

DRAWING 1

Credit: 0.5

Course No. 8501

Gr. 9-12

Students learn the skills and techniques involved in the use of line and shadow. Students use a variety of media to explore many approaches to drawing, including observational drawing and drawing from imagination. History, aesthetics and criticism are integrated with studio processes. **(Level 1 Weighting)**

DRAWING 2

(Prerequisite: Successful completion of Drawing 1)

Credit: 0.5

Course No. 8511

Gr. 9-12

In this course students continue to develop concepts learned in Drawing I, working primarily from observation. Figure drawing and still life are areas of focus. Greater development of the use of drawing media is achieved. History, aesthetics, and criticism are integrated with studio processes. **(Level 1 Weighting)**

DRAWING 3

(Prerequisite: Successful completion of Drawing 2)

Credit: 0.5

Course No. 8521

Gr. 10–12

In this course, students continue to advance their understanding of observational drawing. Figure drawing is emphasized. Traditional and non-traditional approaches to subject and media are explored. History, aesthetics, and criticism are integrated with studio processes. **(Level 1 Weighting)**

PAINTING 1 (\$)**Course No. 8502****Credit: 0.5****Gr. 9-12**

Students will learn to use basic painting materials. The course provides an introduction to techniques, composition, and color theory. Students work primarily in tempera and acrylics. History, aesthetics, and criticism are integrated with studio processes. A \$10 materials fee is required. **(Level 1 Weighting)**

PAINTING 2 (\$)**Course No. 8505****(Prerequisite: Successful completion of Painting 1)****Credit: 0.5****Gr. 10–12**

Students will continue to develop concepts and skills begun in Painting 1, using acrylic and oil paints. Students will advance their understanding of painting styles, movements in history, as well as the process of painting. Students will learn techniques that include underpainting, glazing, and impasto. History, aesthetics, and criticism are integrated with studio processes. A \$10 materials fee is required. **(Level 1 Weighting)**

PAINTING 3 (\$)**Course No. 8508****(Prerequisite: Successful completion of Painting 2)****Credit: 0.5****Gr. 10–12**

This is an advanced painting course. Students will choose the subject/content they would like to explore. They will develop preliminary work that leads to culminating painting or set of paintings. Preliminary work will include sketches and research of historic and contemporary work that connects to the choice of content made by students. An emphasis will be on the understanding of media and the communication of ideas through painted images. **(Level 1 Weighting)**

PRINTMAKING**Course No. 8600****Credit: 0.5****Gr. 9–12**

This is a survey course that teaches the history and process of printmaking. Students will explore the processes of monoprints, etchings, collagraphs, linoleum prints, and prints from stencils. **(Level 1 Weighting)**

SCULPTURE 1 (\$)**Course No. 8610****Credit: 0.5****Gr. 9-12**

This is a survey course that teaches the history and methods of working with three-dimensional forms. Students will explore the processes of making relief sculpture, additive sculpture, subtractive sculpture, mobiles, and stabiles. Various materials and tools will be used. History, aesthetics, and criticism are integrated with studio processes. A \$10 materials fee is required. **(Level 1 Weighting)**

SCULPTURE 2 (\$)**Course No. 8611****(Prerequisite: Successful completion of Sculpture 1)****Credit: 0.5****Gr. 9-12**

In this course students will continue to develop concepts learned in Sculpture 1, using a variety of materials to explore content, process, and methods of construction in the development of 3D form. There will be a focus on clay as a sculpture medium. Other materials and methods will also be used to explore creating sculpture that is conceptual and from observation. History, aesthetics, and criticism are integrated with the studio process. A \$10 materials fee is required. **(Level 1 Weighting)**

WATERCOLOR 1 (\$)**Course No. 8620****Credit: 0.5****Gr. 9-12**

This course provides students with various experiences using watercolors. Students will learn color theory, techniques, and the use of materials. Working from direct observation will be an element of this course. History, aesthetics, and criticism are integrated with studio processes. A \$10 materials fee is required. **(Level 1 Weighting)**

WATERCOLOR 2 (\$)**Course No. 8622****(Prerequisite: Successful completion of Watercolor 1)****Credit: 0.5****Gr. 9-12**

This course provides students the opportunity to build on the foundational skills they learned in Watercolor 1. As artists, students will choose their subjects, and the direction of their watercolor paintings. Students will work from direct observation and their imagination. History, aesthetics, and criticism are integrated with the studio processes. A \$10 materials fee is required. **(Level 1 Weighting)**

AP STUDIO ART PROGRAM

This advanced course is designed for students who are serious about the development of their art skills. Students develop a portfolio of work that may be used for application to art schools, colleges, and universities. Work includes in-depth assignments in the areas of drawing, painting, and design. Daily homework assignments are given that involve studio work, research, and writing. This is a two-course program. At the completion of the second semester, students pay an additional fee for the Advanced Placement test for assessment by the College Board and for potential college credit. Descriptions of the AP Studio Art Program follow below.

AP 2D STUDIO ART 1 (Breadth) (\$)

Course No. 8403AP

(Prerequisites: Successful completion of Drawing I, Painting I, and a portfolio review.)

Credit: 1

Gr. 11-12

In this first semester of the AP course, students solve problems in the areas of design, drawing, painting, and mixed media. Verbal and written critiques are part of this course. Students experience a breadth of approaches to making art, as required by the AP College Board. Weekly homework assignments are required. Students will work toward the development of a portfolio for college admission. Requirements for the portfolio may be obtained from Art Department. A \$20 materials fee is required for students taking this course.

(Level 3 Weighting)

AP 2D STUDIO ART 2 (Concentration) (\$)

Course No. 8404AP

(Prerequisite: Successful completion of AP 2D Studio Art 1)

Credit: 1

Gr.11-12

In this second semester of the AP course, students select and concentrate in one area of interest (concentration). Under the direction of the AP teacher, students will explore a theme, a subject or an idea of focus, which will become the inspiration for artwork produced during this semester. Using the AP College Board guidelines, students will be directed in their artistic development through individual and group critiques. Weekly homework assignments are required. Students will work toward the development of a portfolio for college admission. A \$20 materials fee is required for students taking this course.

(Level 3 Weighting)

BUSINESS EDUCATION

REQUIRED COURSES

CAREER EDUCATION

Course No. 6112

Credit: 0.5

Gr. 9

This course is required for all 9th grade students. Students' career journeys and career plans will be developed during this required class with the use of Xello and other research tools. Students will explore their planned success goals and connect with careers that match their interests, personalities, learning styles, work/life balance, and entrepreneurial skills. Financial relevance will be investigated as they create budgets around their selected careers and lifestyles. Students will have the opportunity to research post-secondary options including trade school, college, military, and workforce entry. Financial aid research involving FAFSA, scholarships, grants, and loans will prepare students for future opportunities. Students will create a resume, learn job application protocols, and practice job interviewing skills. The career plan will enable students to strategize their high school experience as it relates to selected future career goals.

(Level 1 Weighting)

DIGITAL LITERACY 4 TODAY

Course No. 6012

Credit: 0.5

Gr. 10

This required course incorporates the International Society for Technology In Education (ISTE) Standards for today's digital learners. Students will utilize the technology concepts and skills necessary to be a successful digital citizen through the use of communication and collaboration while utilizing research, problem-solving, and critical thinking skills with a creative and innovative approach.

(Level 1 Weighting)

CONSUMER SKILLS

Course No. 6207

Credit: 0.5

Gr. 12

This required class will provide comprehensive classroom experiences that allow students to develop the knowledge and skills needed to make informed choices regarding their consumer responsibilities. Consumer topics will include personal finance, credit use, investing, comparison shopping, insurance purchasing, and issues related to taxes and taxation. (Level 1 Weighting)

ELECTIVE COURSES

ACCOUNTING 1

Course No. 6641

(Note: 9th grade students may take this course with successful completion of Algebra 1)

Credit: 1

Gr. 10-12

Are you ready to discover the *financial story* behind every business? Accounting 1 is your passport into the world of money, finance, and management — **the true language of business!** Whether you plan to major in business, start your own company, or simply want to master your personal finances, this course is a must. You'll learn how businesses organize their financial activities, track transactions, and prepare financial statements for service companies from sole proprietorships to partnerships. Through hands-on work using both computers and traditional accounting methods, you'll build your skills step-by-step as each concept connects to the next. The course wraps up with an exciting simulation where you become the company accountant! If you enjoy money with logical thinking, and want to gain a skill that opens doors in college and beyond — Accounting 1 is for you! (Level 1 Weighting)

ACCOUNTING 2

Course No. 6642

(Prerequisite: 75% in Accounting 1)

Credit: 1

Gr. 10-12

Students apply concepts learned in Accounting 1 and begin the introduction to corporate accounting concepts.

(Level 1 Weighting)

ACCOUNTING 3

Course No. 6643

(Prerequisite: 75% in Accounting 2)

Credit: 1

Gr. 11-12

Accounting 3 is designed for students wishing to expand their accounting knowledge. Students will study advanced accounting including corporate accounting, adjustment methods, management accounting tools, and an introduction to cost accounting. (Level 1 Weighting)

BEGINNING COMPUTER KEYBOARDING**Course No. 6022****Credit: 0.5****Gr. 9-12**

The purpose of this course is to improve basic keyboarding skills used in computer operation. In addition to learning proper use of the keyboard, emphasis is placed on developing speed and accuracy. Students are also introduced to the formatting skills needed for memos, short reports, letters, and simple tables. Beginning keyboarding is for students who need an introductory-level keyboarding course.

(Level 1 Weighting)**CAREER READY CV!****Course No. 6113****Credit: 0.5****Gr.11-12**

Students navigate their post-CVSD journey with this course that continues to build on the career awareness and exploration they learned in Career Ed with a focus on postsecondary planning targeted to the individual. This course will help students develop college and career readiness skills through the lens of the Profile of a CV Learner (Innovative Problem Solver, Communicator, Collaborator, Lifelong Learner, and Global Citizen). They will have the opportunity to build and revise college and workforce documentation (resumés, college, scholarship, and job applications, professional profiles, etc.), as well as engage in job shadowing and/or career mentoring experiences that are relevant to their individual career and workforce goals. Project-based learning will hone leadership and teamwork skills, while interactions with industry professionals will provide authentic feedback on career readiness and Profile of a CV Learner aptitude.

(Level 1 Weighting)**CONSUMER LAW****Course No. 6842****Credit: 1****Gr. 10-12**

If you enjoy conversations revolving around current legal events, then sign up for Consumer Law! This discussion-based course is an introduction to consumer aspects of our legal system including crimes, torts, law enforcement, and the court system. The Internet and current Court TV cases will be used to explore legal topics. A study of everyday contracts that affect lifetime situations is included, as well as an examination of insurance. This course includes a trip to Lancaster County Court House to see an actual criminal trial.

(Level 1 Weighting)**ENTREPRENEURSHIP****Course No. 6422****Credit: 0.5****Gr. 10-12**

Should you become an entrepreneur? Are you already an entrepreneur? What are the types of business ownerships? How do you develop a business plan? This course is designed to answer those questions and has the current and future business owner in mind. Learn what it takes to be an entrepreneur and pursue the dream of business ownership. Discover the stories of successful entrepreneurs and learn how some of your favorite companies started. A computer simulation will be used to study the following topics: market research, product placement, business location, price strategy, promotional methods, staffing, inventory control, merchandising, security and risk management, financing and business planning. If you are a student interested in learning what it takes to start, maintain and operate a business then this is the course for you! **(Level 1 Weighting)**

EVENT, SPORT & RECREATION MARKETING**Course No. 6232****Credit: 0.5****Gr. 9-12**

This course prepares students to apply marketing principles and strategies to simulated stadium events. Course content includes: logo creation, ticket sales, merchandise planning, event parking, event staffing, event concessions and has an overall focus on planning, promotion, and sponsorship. **(Level 1 Weighting)**

EXCEL FOR BUSINESS AND LIFE**Course No. 6024****Credit: 0.5****Gr. 9-12**

Prepare for the future by fine-tuning technology skills with spreadsheets. Students will gain confidence using spreadsheet tools to perform calculations, create charts, and make informed decisions, strengthening their readiness for future academic and workplace success.

This course is especially valuable for students interested in the following career clusters: Business, Management & Administration; Information Technology; Science, Technology, Engineering & Math. **(Level 1 Weighting)**

INTRODUCTION TO BUSINESS**Course No. 6221****Credit: 0.5****Gr. 9-12**

What image comes to mind when you hear the word business? Some people think of their jobs, others think of the merchants they patronize as consumers, and still others think of profit. Business drives the economic pulse of a nation. Whether you decide to start your own business, work for a small, family-run business, or sign on with a large international corporation, your achievements will depend on your ability to maintain the constant pace of change in today's world. This course builds the foundation and discusses the strategies that allow companies to compete in today's interactive marketplace. You will also learn skills that you will need to turn ideas into action for your own career success. **(Level 1 Weighting)**

INTRODUCTION TO INVESTING**Course No. 6613005****(Prerequisite: Successful completion of Algebra 1)****Credit: 0.5****Gr. 9-12**

Interested in learning how to make money in the stock market? This course will help you learn how to prepare both short and long-term investment strategies. You will learn about the different types of investment options and how to minimize risk related to your investment goals. We will discuss and learn about some of the online investment programs, how to create a diversified portfolio and what to consider when looking to invest. You also compete against your peers in a real-life stock market competition simulation. **(Level 1 Weighting)**

MARKETING AND MANAGEMENT**Course No. 6522****Credit: 0.5****Gr. 10-12**

Enter the world of meeting customer satisfaction, managing business operations and testing your decision-making skills. With this course you will build your business knowledge as you delve into how marketing is used in the retail world and how to manage a business. The functions of marketing will be highlighted with emphasis on the multiple managerial aspects faced by businesses. A computerized simulation will allow you to expand your skills as you recruit, hire, fire, and manage employees and work with unions. You will also oversee product development, operational management, and insurance. Watching the company's finances and creating a profitable business while also meeting the needs of your customers is all part of the course. **(Level 1 Weighting)**

NOTETAKING**Course No. 6321****Credit: 0.5****Gr. 9-12**

In this course, students will develop essential skills that will enhance their professionalism in the workplace. These include various note-taking methods, effective communication, proficiency with Google Workspace and Outlook, time management, and more. The course explores different management styles and their effects on the workplace and the employee. Students will build valuable, lifelong skills that prepare them for success during and after high school. This class is shaping the future of tomorrow's workforce! **(Level 1 Weighting)**

WEBSITE DESIGN & DEVELOPMENT**Course No. 6140****Credit: 0.5****Gr. 9-12**

This course is an introduction to the design, creation, and maintenance of web pages and websites. Students learn how to critically evaluate website quality, learn how to create and maintain web pages, learn about web design standards and their importance--all while creating web pages that focus on ease of usability for the visitor. **(Level 1 Weighting)**

DUAL E – RIGHT START TO POST SECONDARY EDUCATION (\$)**Course No. D4CV0312****Credit: 1****Gr. 11-12**

This course is offered through College in a High School through the University of Pittsburgh. Students who achieve a "C" or better for the course will earn one (1) credit from the University of Pittsburgh. This CHS course is designed to help students navigate and flourish in both the college application process and life after high school. It is focused on major/career exploration and planning and related aspects of financial literacy. The course is divided into three parts. Part one covers the Common App and all related parts of the college application process, how to navigate financial aid, and what to expect in college. During this portion of the course, students will write their college essays and as well as complete a detailed walkthrough of how to arrange the information on their college applications to present themselves for admission in the best way possible. They will also explore areas of time management, study skills, and test preparation. During part two, students will learn transferable skills including career research, advanced resume and cover letter writing, and interviewing and networking skills. In the final part of the course, in-depth financial literacy and planning are explored. Subjects include detailed budgeting, understanding and navigating credit and credit scores-both FICO and VantageScore, investment classes, loans, different types of insurance-including renters, auto, health, homeowners, disability, and umbrella coverage as well as an understanding of what coverages may be needed, personal taxes, and estate planning. **(Level 3 Weighting)**

COMPUTER SCIENCE

The Computer Science curriculum offers the following progression from introductory exploration to advanced programming. Explorations in Computer Science provides an optional creative introduction to programming for students interested in discovering the field. Computer Science Principles serves as the foundational course, introducing key concepts in computing and programming, with the option to continue to AP Computer Science Principles. Students may then take Fundamentals of Python to build stronger programming skills through hands-on coding in Python. The sequence concludes with Honors Computer Science A and AP Computer Science A, a two-part, college-level study of programming in Java.

EXPLORATIONS IN COMPUTER SCIENCE

Course No. 420001

Credit: 0.5

Gr. 9-12

This course introduces students to the fundamental concepts of computer science through graphics-based programming using Python as the coding language. No prior coding experience is needed. This course emphasizes creativity and problem solving as students learn about variables, data types, conditionals, loops, functions, parameters, lists, and algorithmic thinking. **(Level 1 Weighting)**

COMPUTER SCIENCE PRINCIPLES 1

Course No. 421001

(Prerequisite: Successful completion of Algebra 1)

Credit: 1

Gr. 9-12

This course provides a broad and rigorous introduction to computer science, including problem-solving, working with data, understanding the Internet, cybersecurity, and programming. This course is based on the College Board's Computer Science Principles curriculum framework for introductory computer science. Students will learn how to program in Python while learning about the principles of computing. **This course is a prerequisite for AP Computer Science Principles. (Level 1 Weighting)**

AP COMPUTER SCIENCE PRINCIPLES (\$)

Course No. 4210AP

(Prerequisite: Successful completion of Computer Science Principles 1)

Credit: 1

Gr. 9-12

Advanced Placement Computer Science Principles (AP CSP) is a course that explores the fundamentals of computing, including problem-solving, working with data, understanding the Internet, cybersecurity, and programming. It is a course that is designed to broaden the understanding of computer science for all students, no matter their previous background, current interests, or intended college and career tracks. Students signing up for this course must also sign up for **Computer Science Principles 1. (Level 3 Weighting)**

FUNDAMENTALS OF PYTHON

Course No. 435001

(Prerequisite: Successful completion of Computer Science Principles 1 or Teacher Recommendation)

Credit: 1

Gr. 10-12

This course is designed to introduce the students to the Python language. Students will continue developing their knowledge of programming basics using data types, control structures, algorithm development, and program design with functions. They will continue to develop their understanding of Object-Oriented Programming (OOP) that is used to develop large software systems. Students will continue work with Data and Information Processing including strings, arrays, files, lists, and dictionaries. Students will apply the Software Development Life Cycle and Contemporary Applications of Computing in the Python language. **(Level 1 Weighting)**

HONORS COMPUTER SCIENCE A

Course No. 4224

(Prerequisite: Successful completion of AP Computer Science Principles 1 and Fundamentals of Python)

Credit: 1

Gr. 10-12

This course is designed for students who are successful in mathematics and have a strong interest in programming. The history of computing along with structured programming will be stressed throughout the course. This is a prerequisite for AP COMPUTER SCIENCE A (4330AP) and covers the first portion of the JAVA language. **(Level 2 Weighting)**

AP COMPUTER SCIENCE A (\$)

Course No. 4330AP

(Prerequisite: Successful completion of Honors Computer Science A)

Credit: 1

Gr. 10-12

This course is designed to prepare students for the AP exam in Computer Science. The JAVA computer language will be used to teach the fundamental concepts of computer science including data structures and computer graphics. Students signing up for this course must also sign up for **Honors Computer Science A. (Level 3 Weighting)**

Carnegie Mellon University College Programming (\$)

Course No. 4400H

(Prerequisite: Successful completion of AP Computer Science or Fundamentals of Python)

Credit: 2

Gr. 11-12

This is a full year honors-level course in programming and computer science. CS3 prepares students for college studies in computer science and related disciplines. This course re-examines earlier topics (functions, conditionals, loops, strings, lists, and more) in greater detail and increased rigor. The course also covers intermediate data structures (sets, dictionaries), recursion, object-oriented programming, exceptions, cloud computing, top-down design, and other college level topics. **(Level 3 Weighting)**

FAMILY AND CONSUMER SCIENCES

REQUIRED COURSE

PERSONAL AND FAMILY DEVELOPMENT

Course No. 7210

Credit: 0.5

Gr. 12

This required course for seniors will provide the opportunity for students to develop the knowledge and skills needed in making choices related to personal and family life. Topics of study include positive communication skills and conflict resolution, development of healthy relationships, current issues relating to the diverse needs of families, parenting and guidance strategies, promoting positive growth and development in children, and protecting children's safety and welfare. **(Level 1 Weighting)**

ELECTIVE COURSES

BASIC FOODS (\$)

Course No. 7201

Credit: 0.5

Gr. 9-12

This course includes lessons in nutrition, equipment, and preparation techniques. Basic Foods introduces quick and easy foods, planning meals, and making healthy food choices. Students will be required to pay a \$30 food lab fee. **(Level 1 Weighting)**

PASTRY ARTS (\$)

Course No. 7202

Credit: 0.5

Gr. 10-12

This course gives the student practical experience in preparing a variety of foods which require baking. Emphasis is placed on correct procedures, proper use of equipment, consumer information, safety, and sanitation. Students will be required to pay a \$30 food lab fee. **(Level 1 Weighting)**

AMERICAN CUISINE (\$)

Course No. 7208

(Prerequisite: 75% in Basic Foods or Pastry Arts)

Credit: 0.5

Gr. 11-12

Choose this course and explore, region by region, the best of our country's culinary history. Beginning with the pilgrims' landing, through waves of immigrants and western expansion, this course captures the melting pot of flavors and aromas that represent American cookery at its best. Students will be required to pay a \$30 food lab fee. **(Level 1 Weighting)**

WORLD CUISINE (\$)

Course No. 7203

(Prerequisite: 75% in Basic Foods or Pastry Arts)

Credit: 0.5

Gr. 11-12

This course is an adventure in eating through the study of foreign foods. Students learn how a country's geography, culture, religion, heritage, and climate influence food selection and preparation. Due to modern transportation and increasing global trade, there is a good chance that students will at some time in their lives visit, do business in, or relocate to a foreign country. Because sharing food is a natural bridge-builder, the meal table may be the best place to begin to appreciate cultural diversity. Students will be required to pay a \$30 food lab fee. **(Level 1 Weighting)**

NUTRITION AND WELLNESS (\$)

Course No. 7204

Credit: 0.5

Gr. 10-12

Nutrition offers students instruction and experience in applying basic nutrition concepts. This course includes an in-depth analysis of the six essential nutrients and their application for individuals and families. Some activities include critiquing food labels and sample diets, considering economic and cultural considerations on food and wellness choices, and experimenting with foods in the lab environment. Students will be required to purchase a \$15 foods card. **(Level 1 Weighting)**

CHILD DEVELOPMENT 1

Course No. 7601

Credit: 0.5

Gr. 10-12

This course is an integrated study of physical, intellectual, social, emotional and moral development, and behavior from birth through early childhood. Emphasis will be placed on guiding children at each level of development. Upon completion of this course students can elect Child Development 2, which includes an internship working with children. **(Level 1 Weighting)**

CHILD DEVELOPMENT 2 (\$)**Course No. 7602****(Prerequisite: 75% in Child Development 1)****Credit: 1****Gr. 10-12**

This course is designed to enable the student to apply the skills learned in Child Development 1 in a laboratory setting working directly with children. Students will plan and carry out lessons in storytelling, arts and crafts, literature, science, and social studies. This course is highly recommended for students considering careers in elementary and/or early childhood education, special education, or any career revolving around children. Students are required to pay a \$20 course fee and arrange for transportation to and from a local elementary school. Student carpools will be organized, but transportation is not the responsibility of the school. The student must be 16 years of age before October 1 of the school year. **(Level 1 Weighting)**

FASHION & INTERIOR DESIGN (\$)**Course No. 7211****Credit: 0.5****Gr. 10-12**

This course provides students with an introduction to design concepts applied to the field of interior design and the fashion industry. After exploring the principles and elements of design, students will take part in project-based learning as they consider floor plans and color schemes to create an exciting living space of their very own. Students will consider how these same principles and elements can be applied to clothing construction and fashion design. Students will also learn the basics of sewing and will create 3 of their own projects, and also learn 15 -20 basic sewing stitches which they will use in adulthood. Finally, students will evaluate various fashion styles and be given an opportunity to develop and critique original designs with other students. Additional topics that may be explored include sustainable design, digital tools and resources, and related career options. Student in addition to providing materials for their personal projects. **(Level 1 Weighting)**

MUSIC

CVHS requires at least one (1) music course (0.5 credit) to be taken as a condition for graduation. Students may fulfill their music requirements by selecting any music course or an ensemble.

MUSIC PERFORMANCE (Concert Band, Concert Choir, Orchestra)

Course 801102 or 801101

(Prerequisite: Recommendation of middle or high school directors or audition)

Credit: 2 (full year) or 1 (one semester)

Gr. 9-12

The course is comprehensive and includes a variety of ensemble literature. Musicians develop technique through rehearsals and performances and perform in at least four mandatory concerts per school year. Students in concert band, concert choir, and orchestra meet during the same block and can choose to be in one or more of the ensembles. **(Level 1 Weighting)**

HONORS MUSIC PERFORMANCE

Course No. 801102H or 801101H

Credit: 2 (full year) 1.0 (one semester)

Gr. 10-12

Honors Music Ensemble is designed to provide musicians in concert band, concert choir, and orchestra with rigorous and challenging learning opportunities. Students will maintain digital portfolios to document their learning. Each marking period, they will choose two learning options to complete and add to their digital portfolios. The learning options are varied to allow students to enhance their musicianship through performance, composition, research, advocacy, and multidisciplinary projects.

(Level 2 Weighting)

CHORUS

Course No. 8106

Credit: 1 (Semester Long) 2 (Year Long)

Gr. 9-12

This course is open to all students who want to sing. No prior experience or audition is required. Students will learn vocal techniques, musicianship, and creative expression through the performance of a varied repertoire. Students perform in two (semester) or four (year) mandatory concerts. **(Level 1 Weighting)**

MUSIC THEORY

Course No. 8202

(Prerequisite: Ability to read music)

Credit: 0.5

Gr. 9-12

Music Theory is designed to enhance music skills and basic music fundamentals. The essential aspects of melody, harmony, rhythm, and form are studied. Throughout the course students will study basic notation, scales, key signatures, intervals, triads, cadences, non-chord tones, form, part-writing and analysis of a score. Aural dictation, ear training, and vocal solfege are an integral part of the course. Individual creativity is nurtured through both rhythmic and melodic composition. This course is highly recommended for students in a musical ensemble, and is a prerequisite for AP Music Theory. **(Level 1 Weighting)**

AP MUSIC THEORY (\$)

Course No. 8203AP

(Prerequisite: 80% in Music Theory)

Credit: 1

Gr. 10-12

AP Music Theory is a college-level course for highly motivated students with a serious interest in music. Students will complete coursework equivalent to that of a first year college course in music theory. Classes will consist of lecture and written work as well as sight-singing, ear-training, and melodic and harmonic dictation practice. Students are expected to utilize the music technology resources to practice skills and concepts both in and outside of class. This course is designed to prepare students for the AP Music Theory Exam.

(Level 3 Weighting)

AUDIO PRODUCTION 1

Course No. 8207

Credit: 0.5

Gr. 9-12

Audio Production is a project-based class in which students will learn to compose music, sequence tracks, create loops, and design drum patterns using music industry-standard hardware and software. Students will use LogicPro and LaunchPad Mini to create music sourced from electronic and recorded material. Students will edit and mix recordings of various genres of music. Students will also learn the evolution of music technology, music technology vocabulary, along the possibilities of career options in the music technology field.

(Level 1 Weighting)

AUDIO PRODUCTION 2

(Prerequisite: 75% in Audio Production 1)

Course No. 8208

Credit: 0.5

Gr. 9-12

This is a project-based class in which students will learn to compose music, sequence tracks, create loops, and design drum patterns using music Industry-standard hardware and software. Audio production 2 enables students to further develop their mixing, looping, arranging, and composing skills using Logic Pro and LaunchPad mini tools. Additionally, students will explore careers related to audio production as well as the evolution of music technology. **(Level 1 Weighting)**

BEGINNER GUITAR

Course No. 8211

Credit: 0.5

Gr. 9-12

This course provides students with an introduction to playing the guitar. Topics of the course include care of the instrument; chord progressions, strumming patterns, and individual notes in first position. Classical, folk, blues, and pop repertoire will be performed in class and will aid in sharpening musicianship skills. **(Level 1 Weighting)**

INTERMEDIATE GUITAR

Course No. 8212

(Prerequisite: Successful completion of Guitar 1)

Credit: 0.5

Gr. 10-12

Intermediate Guitar is a continuation of the Beginner Guitar course. Students will reinforce basic skills and explore advanced guitar concepts that include barre chords, arpeggios, scales, as well as solo and ensemble performance. **(Level 1 Weighting)**

EXPLORATORY INSTRUMENTS: MODERN BAND 1

Course No. 8210

Credit: 0.5

Gr. 9 -12

Exploratory Instruments: Modern Band is an immersive approach to music instruction. Students choose from a vast repertoire of culturally responsive music from pop, rock, folk, and Latin styles. Students will learn to arrange, compose, improvise and perform using keyboards, drum sets, and guitars. **(Level 1 Weighting)**

EXPLORATORY INSTRUMENTS: MODERN BAND 2

Course No. 8214

(Prerequisite: Successful completion of Modern Band 1)

Credit: 0.5

Gr. 10 - 12

This hands-on course allows students to expand their instrumental skills and dive into modern music production. Building on foundational music knowledge, students will arrange, compose, and perform music while learning advanced guitar, keyboard, and drum techniques. They will explore recording, mixing, and producing music, culminating in live performances. The course encourages creativity, collaboration, and a deep understanding of diverse musical genres and global trends. **(Level 1 Weighting)**

DUAL E - ELECTRONIC BEAT MAKING & SONG WRITING (\$)

Course No. D4CV8210

(Prerequisite: 80% in Audio Production 1)

Credit: 1

Gr. 11 -12

This course introduces the creation of original music through creative projects focusing on different technical topics, beat-oriented musical styles, and basic music theory concepts utilized by a DAW, Ableton Live. Topics covered include audio sequencing, MIDI sequencing, effects, automation, live performance, sampling, and synthesis. In addition to creative work, the course consists of regular listening discussions on various musical styles such as Hip Hop, House, Techno, Dub Reggae, Heavy Metal, and Dubstep. Students will also write reflection essays on topics like the creative process, cultural appropriation, and developing their artistic voice, paired with relevant readings. **(Level 3 Weighting)**

PHYSICAL EDUCATION (PE), HEALTH & FIRST AID/CPR

Students must take a 0.5 credit PE class each year for four years. Full-day CTC students are required to complete 1.5 credits of physical education 9th Grade PE (9th Grade), Foundations of Fitness (10th grade), and one elective option (11th grade).

REQUIRED COURSES

PE 9 **Course No. 9011**
Credit: 0.5 **Gr. 9**
The 9th grade physical education marking period curriculum is structured so that students will meet the PA State Standards for Physical Education through a variety of team and individual activities that place an emphasis on fitness development, skill acquisition, application of strategic concepts, and teamwork. An emphasis on fitness development is an ongoing initiative in all PE courses. **(Level 1 Weighting)**

FOUNDATIONS OF FITNESS **Course No. 9035**
(Prerequisite: Successful completion of PE 9)
Credit: 0.5 **Gr. 10**
Foundations of Fitness is a combination of classroom and fitness activities that will enhance cardiovascular fitness, muscular strength and endurance, flexibility, and body composition. The benefits of exercise and its effect on the systems of the body will be introduced. The primary objectives of this course are to improve the health-related components of fitness and to enable the student to make intelligent decisions regarding fitness program design and application. This course meets every cycle day for 9 weeks. **(Level 1 Weighting)**

CURRENT HEALTH ISSUES **Course No. 9122**
Credit: 0.5 **Gr. 11**
This course is required for all 11th grade students. The course is designed to take students through a study of a variety of health topics that impact their lives on a daily basis in order to help them better comprehend concepts related to health promotion and disease prevention. Students will develop health skills that will include accessing information, self-management, analyzing influences, interpersonal communication, decision-making, goal setting, and advocacy. Through this course, students will improve health literacy and create a lifestyle that is based on good choices and healthy behaviors. **(Level 1 Weighting)**

PHYSICAL EDUCATION (PE) COURSE OPTIONS FOR 11th AND 12th GRADE

Students will choose from the following courses for their 11th and 12th grade Physical Education requirements. Students may choose to take the same course in 11th and 12th grades.

FOUNDATIONS OF FITNESS 2 **Course No. 9040**
(Prerequisite: Successful completion of PE 9 and Foundations of Fitness)
Credit: 0.5 **Gr. 11-12**
Foundations of Fitness 2 is for students interested in the study and practice of various fitness styles, trends, and techniques that can be used for lifetime fitness and expand upon the knowledge gained in Foundations of Fitness 1. This course includes both classroom and fitness-oriented lessons. Students will have the opportunity to learn current styles of lifetime fitness including cardiovascular training, interval training, traditional weight training, bodyweight training, heartrate-based training, and functional fitness. Additionally, students will choose a weight training goal and workout based on personalized fitness goals and engage in a program designed to meet those goals. The main objective of this course is for students to achieve knowledge in exercise programming and improve their current fitness level. **(Level 1 Weighting)**

FITNESS PROGRAMMING **Course No. 9507**
(Prerequisite: Successful completion of PE 9 and Foundations of Fitness)
Credit: 0.5 **Gr. 11-12**
This course offers students an opportunity to learn, plan, and build their own personal fitness programs for both weight training and cardiovascular endurance training. The goal of this course is to provide students with the necessary information to effectively and safely create their own personal exercise program regimens. Students will participate in the program they designed during the course. **(Level 1 Weighting)**

LIFETIME ACTIVITIES **Course No. 9503**
(Prerequisite: Successful completion of PE 9 and Foundations of Fitness)
Credit: 0.5 **Gr. 11-12**
Lifetime Activities is a course for students interested in the study and practice of lifetime activities. Examples include, but are not limited to, bowling, golf, disc golf, GPS/ orienteering, net games, yard games, and social games. The course includes both classroom and activity sessions. To meet fitness standards, the course requires one-third of all activity sessions to involve fitness training with two-thirds of the class dedicated to the course content. Students will understand game procedures, rules, ethics of gameplay. **(Level 1 Weighting)**

ADVENTURES IN PHYSICAL EDUCATION**Course No. 9506****(Prerequisite: Successful completion of PE 9 and Foundations of Fitness)****Credit: 0.5****Gr. 11-12**

Adventures in PE includes team building, cooperative, problem-solving and adventure-based activities. Students will spend time participating in individual, partner, and group activities that promote these concepts. To meet fitness standards, the course requires one-third of all activity sessions to involve fitness training with two-thirds of the class dedicated to the course content. **(Level 1 Weighting)**

COMPETITIVE GAMES**Course No. 9504****(Prerequisite: Successful completion of PE 9 and Foundations of Fitness)****Credit: 0.5****Gr. 11-12**

This course focuses on activities in a competitive setting. Activities may include, but are not limited to, lifetime activities, team, and individual sports. Emphasis is placed on competition, sportsmanship, advanced skill performance, and the application of strategic concepts. To meet fitness standards, the course requires one-third of all activity sessions to involve fitness training with two-thirds of the class dedicated to the course content. **(Level 1 Weighting)**

MOVEMENT EXPLORATION**Course No. 9505****(Prerequisite: Successful completion of PE 9 and Foundations of Fitness)****Credit: 0.5****Gr. 11-12**

Movement exploration is for students interested in the study and practice of mindfulness, yoga, and dance. The course includes both classroom and activity sessions. Students will learn the proper form, safety, and execution of the movements involved in each type of activity. Additionally, students will spend time studying the etiquette involved in the practice of each. **(Level 1 Weighting)**

UNIFIED PHYSICAL EDUCATION**Course No. 9509****(Prerequisite: Teacher recommendation)****Credit: 0.5****Gr. 9-12**

Unified Physical Education (Unified PE) is a class that brings students with and without disabilities together in a collaborative and supportive environment. Through shared participation in physical activities, students develop skills in teamwork, leadership, communication, and empathy. This course offers a variety of physical activities, including individual sports, team sports, fitness exercises, and recreational games, all adapted to accommodate and challenge all participants. The curriculum emphasizes promoting a healthy and active lifestyle while fostering respect and understanding among peers. **(Level 1 Weighting)**

ADVANCED STRENGTH AND CONDITIONING**Course No. 955101 or 955102****(Prerequisite: 80% in previous PE course and teacher recommendation)****Credit: 0.5****Gr. 11-12**

The course is structured so that students will be able to meet personal and sport-related fitness training goals. The course is designed using challenging and rigorous workout routines. The student must meet a high standard of prerequisites to enter the class with a required recommendation from a physical education teacher. This course is offered as a semester-long or year-long course. **(Level 1 Weighting)**

FIRST AID / CPR ELECTIVE COURSE**AMERICAN HEART ASSOCIATION HEARTSAVER CPR & FIRST AID COURSE (\$)****Course No. 7604****Credit: 0.5****Gr. 10-12**

The American Heart Association Heartsaver provides students with the knowledge and skills necessary to help sustain life and minimize the consequences of injury or sudden illness until advanced medical care arrives. The program content and activities will help participants identify and eliminate potentially hazardous conditions, recognize emergencies, and make appropriate decisions for first aid care. Units within the program teach the first aid skills the layperson responder will need to perform. This program also emphasizes the prevention of injuries and illness, with a focus on personal safety and health. Using a healthy lifestyles-awareness inventory, participants will assess their environment and personal habits to reduce their risk of injury and illness. This course is being taught under the guidelines established by the American Heart Association. There is a \$35 course fee which includes a Laerdal pocket mask and course certification. **(Level 1 Weighting)**

TECHNOLOGY EDUCATION

Conestoga Valley High School requires at least 0.5 credits in technology education to be taken as a condition for graduation. Any of the following courses satisfy the Technology Education graduation requirement. In technology education courses, students must follow accepted safety practices and are expected to exhibit skill and craftsmanship in their work. Students may take level 2 or advanced technology education classes more than once.

NOTICE: Many of the technology courses offered at CVHS employ advanced tools of the trade such as, but not limited to, band and table saws, jointers, belt sanders, lathes, nail guns, welding torches, plasma cutters, and many others. Prior to allowing students to operate equipment such as those mentioned above, technology education teachers train and assess all students in safety procedures. These include but are not limited to emergency procedures and first aid, use of safety equipment, power shut off, and proper operating instructions and protocols. Students must demonstrate appropriate and proper use of equipment under the direct supervision of the teacher and pass a safety test prior to being authorized to use technology equipment.

ANIMATION PRODUCTION

Course No. 7916005 or 791601

Credit: 0.5 or 1

Gr. 9-12

This course will introduce students to the electronic media of digital animation. Students will learn about professional animation and how it is used in the film and entertainment industry. This course has a hands-on approach to learning where students will create their own Animation projects. Students will use the Adobe Creative cloud to produce these projects. **(Level 1 Weighting)**

CONTROL POWER TECHNOLOGY 1

Course No. 7022005

Credit: 0.5

Gr. 9-12

This course is designed to give students a basic knowledge of man's prime movers, the power and force behind all that is done including how they work, and the problems frequently involved. Students interested in mechanics or engineering will be introduced to power, its generation, control, and transfer. Students will understand how power is applied in today's ever-changing world. Units covered include fluid power, mechanical advantage, electrical power, controls and sensors, and small gas engines. **(Level 1 Weighting)**

ELECTRONICS TECHNOLOGY 1 (\$)

Course No. 7701005

Credit: 0.5

Gr. 9-12

This course is designed to allow students to explore the field of electricity and electronics through various exercises and lab experiments. Students will learn how to use electronic test equipment, explore basic electrical components to understand how they function, problem solve electrical circuits, and apply electrical laws. Students will also construct their own electronics projects. Students must follow accepted safety practices and are expected to exhibit skill and craftsmanship in their work. The lab fee for this class varies based on the project each student chooses to build. **(Level 1 Weighting)**

ENGINEERING/APPLIED TECHNOLOGY 1 (\$)

Course No. 7032005

Credit: 0.5

Gr. 9-12

Engineering Technology 1 is appropriate for students who are interested in design and engineering. The major focus of this course is to expose students to the design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation. This course is activity, project, and problem-based learning at its best. Students will utilize 3D solid modeling design software to help design solutions and solve proposed problems. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges that increase in difficulty throughout the course. This course will satisfy the Technology Education graduation requirement. There is a lab fee of \$5 to cover the cost of materials used in the class. **(Level 1 Weighting)**

ENGINEERING/APPLIED TECHNOLOGY 2 (\$)

Course No. 7033005

(Prerequisite: 75% in Engineering/Applied Technology 1)

Credit: 0.5

Gr. 10-12

Engineering Technology 2 is an advanced class for students who are interested in continuing their study of engineering and design. The course will help develop design skills utilizing 3D solid modeling design software as well as working through problem-based engineering challenges. Students will also create prototypes of specified design challenges utilizing advanced 3D printing technology. Students will be required to maintain an engineering notebook throughout the duration of the course. There is a lab fee of \$10 to cover the cost of materials used in the class. **(Level 1 Weighting)**

ROBOTICS AND AUTOMATION

(Prerequisite: 80% in Engineering/Applied Technology or Electronics 1 or Teacher Recommendation)

Course No. 7042005 or 704201

Credit: 0.5 or 1

Gr. 10-12

The course exposes students to some of the major concepts they will encounter in the field of automated robotic systems. Students have an opportunity to investigate engineering and high-tech career fields. This course gives students the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based learning. To be successful in this class, students should be concurrently enrolled in college preparatory mathematics and science. Students will employ engineering and scientific concepts in the solution of engineering design problems involving power systems and robotics. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various real-world challenges. **(Level 2 Weighting)**

WOOD TECHNOLOGY 1 (\$)

Course No. 7101005

Credit: 0.5

Gr. 9-12

This course is an introduction to machine woodworking with emphasis on the safe basic use of woodworking machines. Also included in the course is some basic wood technology, the process of squaring a board by machine, and basic woodworking techniques ranging from planning a project through the finishing process. The computer-controlled router (CNC) and Laser Engraver will be introduced. Students will make two required projects that incorporate the processes taught in the course. All students are required to use high power saws and industrial size equipment throughout this course. Students must follow accepted safety practices and are expected to exhibit skill and craftsmanship in their work. There are various safety test and quizzes throughout the course. Based on the nature of the projects chosen, students fees may vary. **(Level 1 Weighting)**

WOOD TECHNOLOGY 2 (\$)

Course No. 7102005 or 710201

(Prerequisite: 75% in Wood Technology 1 or Teacher Recommendation)

Credit: 0.5 or 1

Gr. 10-12

This course is an extension of the Wood 1 course with a concentration on special methods of woodworking which includes door and drawer construction, compound sawing on the band saw, shaper use, dovetailing, and panel construction. Additional wood technology is also covered. Students are required to make a project that incorporates a door and a drawer and additional computer-controlled (CNC) router work. Students also have the option of creating an inlay feature with the CNC router. Students must follow accepted safety practices and are expected to exhibit skill and craftsmanship in their work. Based on the nature of the projects chosen, students will be asked to pay appropriate lab fees. **(Level 1 Weighting)**

ADVANCED WOOD TECHNOLOGY (\$)

Course No. 7103005 or 710301

(Prerequisite: 75% in Wood Technology 2 and Teacher Recommendation)

Credit: 0.5 or 1

Gr. 10-12

This course provides the opportunity for students to work on a project of their own preference. Projects include, but are not limited to, beds, cabinets, tables, entertainment stands, etc. Some special techniques in woodworking will be presented through ideas and demonstrations including advanced procedures and lathe work. Also, students will be required to do additional CNC router programming and laser engraving. Students must follow accepted safety practices and are expected to exhibit skill and craftsmanship in their work. Based on the nature of the projects chosen, students will be asked to pay appropriate lab fees. Students must work on at least one project that makes full use of the term. **(Level 2 Weighting)**

FURNITURE MAKING TECHNOLOGY (\$)

Course No. 7104005

(Prerequisite: 80% in Wood Technology 1 and Teacher Recommendation)

Credit: 0.5

Gr. 10-12

This course explores the techniques used by industry in producing furniture pieces. The class will plan for and make jigs and fixtures for, the production of a piece of furniture such as a desk, bed, chest, etc. The class will then mass-produce enough pieces for at least one for every class member. Students must remain involved in their assigned duties producing the piece previously described. Students must follow accepted safety practices and are expected to exhibit skill and craftsmanship in their work. Based on the nature of the projects chosen, students will be asked to pay appropriate lab fees. **(Level 2 Weighting)**

BUILDING CONSTRUCTION**Course No. 7105005****(Prerequisite: 75% in Wood Technology 1)****Credit: 0.5****Gr. 10-12**

This course is an introduction to the basic materials, tools, and methods used in the building and construction industry. Activities include working with household plumbing and wiring projects as well as constructing a small building such as a utility shed, playhouse, etc., and other experimental construction activities. Cost to the student will be limited to anything that is constructed for the student's personal use/ownership. Students must follow accepted safety practices, and are expected to exhibit skills and craftsmanship in their work.

(Level 1 Weighting)**MATERIALS PROCESSING 1 (\$)****Course No. 7301005****Credit: 0.5****Gr. 9-12**

This course is designed to give the learner an overview of various materials and the processes by which to manipulate and transform them. Students will produce several projects from the processes discussed in the course. Materials used in the course will include but are not limited to; polymers, woods, and composites. Students will also perform a variety of operations using advanced technologies such as Laser Engraving and Cutting, 3D Printer and CNC fabricating. Students must follow accepted lab safety rules and exhibit skill and craftsmanship in their work. This course will satisfy the Technology Education graduation requirement. There is a lab fee of \$15 to cover the cost of materials used in the class. **(Level 1 Weighting)**

MATERIALS PROCESSING 2 (\$)**Course No. 7302005****(Prerequisite: 75% in Materials Processing 1)****Credit: 0.5****Gr. 9-12**

This course is primarily a hands-on lab course that involves advanced processes and project work not achieved in Materials Processing 1. Assignments include project design, mold making, vector cut signs, LED displays, and multi-process projects. Materials used in the course include but are not limited to: polymers, woods, and composites. Students will use advanced procedures on the Laser Engraver, 3D Printer and CNC Fabricator. Students must follow accepted lab safety rules and exhibit skill and craftsmanship in their work. There is a lab fee of \$20 to cover the cost of materials used in the class. **(Level 1 Weighting)**

METAL/MANUFACTURING TECHNOLOGY 1 (\$)**Course No. 7401005****Credit: 0.5****Gr. 9-12**

This course includes modules pertaining to metal manufacturing in the areas of design processes, quality assurance, robotics, and CNC (Computer Numeric Controlled) equipment. In addition, the students will be required to demonstrate an understanding of all traditional power equipment and tools used in metalworking. After completing the required projects, the students will have the opportunity to work on personal projects. Students must follow accepted safety practices and are expected to exhibit skill and craftsmanship in their work. There is a lab fee of between \$20 and \$25, to cover the cost of materials used in the class. **(Level 1 Weighting)**

METAL/MANUFACTURING TECHNOLOGY 2 (\$)**Course No. 7402005****(Prerequisite: 75% in Metal/Manufacturing Technology 1)****Credit: 0.5****Gr. 10-12**

This course is a review of areas covered in Metal/Manufacturing Tech 1 with the addition of advanced demonstrations and modules in the machine shop, precision measuring instruments, types of fasteners, and CNC machining. Upon completion of required work, the students will select projects to fit their individual interests. Students must follow accepted safety practices and are expected to exhibit skill and craftsmanship in their work. Based on the nature of the projects chosen, students will be asked to pay appropriate lab fees.

(Level 1 Weighting)**ADVANCED METAL/MANUFACTURING TECHNOLOGY (\$)****Course No. 7403005****(Prerequisite: Teacher Recommendation)****Credit: 0.5****Gr. 10-12**

Students will select an area in which to specialize in the metal/manufacturing lab. The method of instruction will be through directed independent study. Students will develop a more complex project or pursue metals technology through research, development, and experimentation. A unit on the CNC machining will be required. Students must follow accepted safety practices and are expected to exhibit skill and craftsmanship in their work. Based on the nature of the projects chosen, students will be asked to pay appropriate lab fees. **(Level 2 Weighting)**

GRAPHIC TECHNOLOGY 1 (\$)**Course No. 7501005****Credit: 0.5****Gr. 9-12**

This course is designed to introduce students to the diversity of the Graphics Industry. Students will gain exposure to the Adobe Creative Cloud with a concentration in Photoshop, Illustrator, and Photoshop and Illustrator. They will explore the principles behind effective designs and look to apply these strategies as they develop designs to personalize various substrates. Students will work with advanced technologies such as a UV Flatbed printer, an automated embroidery machine, a large format printer with integrated contour cutting and screen-printing equipment. Students must follow accepted safety practices and are expected to exhibit skill and craftsmanship as they produce products ranging from t-shirts to decals. There is a lab fee of \$20, to cover the cost of materials used in the class.

(Level 1 Weighting)**GRAPHIC TECHNOLOGY 2 (\$)****Course No. 7502005 or 750201****(Prerequisite: 75% in Graphic Technology 1)****Credit: 0.5 or 1****Gr. 10-12**

Students will work extensively with graphic manipulations utilizing the Adobe Creative Cloud. Students will be introduced to advanced techniques and practices in Adobe Photoshop to edit and create unique and original designs. Students will gain exposure to large format printing in which they will produce and print large format displays. They will utilize advanced printing techniques and the UV Flatbed printer to emboss or apply textures to various three-dimensional objects such as cell phone cases. They will also create and digitize graphic files to be embroidered on substrates such as hats and produce a multicolor screen-print on a substrate of their choice. Students must follow accepted safety practices and are expected to exhibit skill and craftsmanship in their work. There is a lab fee of \$20, to cover the cost of materials used in the class. **(Level 1 Weighting)**

ADVANCED GRAPHIC TECHNOLOGY (\$)**Course No. 7504005 or 750401****(Prerequisite: 75% in Graphic Technology 2 or Teacher Recommendation)****Credit: 0.5 or 1****Gr. 10-12**

A course designed for students who desire to pursue advanced technologies and techniques in Graphics. Students will continue to develop their digital literacy and ability to design utilizing the Adobe Creative Cloud. Advanced Graphics students will extensively explore Illustrator and vector-based formats. They will develop advanced techniques in large format printing to create a vinyl wall decal, use integrated contour cutting to create full-color thermal transfers as well as spot color transfers that will be applied to textiles. They will explore printing on contoured substrates with UV flatbed printing and the automation of screen printing with an automated textile press. Students must follow accepted safety practices and are expected to exhibit skill and craftsmanship in their work. The lab fee associated with the course will be related to the cost of materials that are used in the class to fulfill their project requirements.

(Level 2 Weighting)**PHOTOGRAPHY TECHNOLOGY 1 (\$)****Course No. 7505005****Credit: 0.5****Gr. 9-12**

Photography Technology is a survey course in photography, that includes experiences using a DSLR camera. Students will study manual and automatic exposure, composition techniques, printing, cropping, and the digital enhancement of photographs. Students will complete projects in action photography, depth of field, lighting, aperture, shutter, and explore the use of digital cameras in photography. Access to a Digital camera with manual aperture and shutter speed adjustments is beneficial but not required. Students must follow accepted safety practices and are expected to exhibit skill and craftsmanship in their work. There is a lab fee of \$10, to cover the cost of materials used in the class. **(Level 1 Weighting)**

PHOTOGRAPHY TECHNOLOGY 2 (\$)**Course No. 7506005 or 750601****(Prerequisite: 75% in Photography Technology 1)****Credit: 0.5 or 1****Gr. 10-12**

This course is an extension of Photography 1. Students will learn how to effectively manipulate manual and automatic camera controls of a DSLR camera. An emphasis will be placed on photo composition in which students will study their subject matter as they look to combine technique with creative aspects of photography. Students will explore additional units in Night Photography, HDR (High Dynamic Range), and Panoramic Photography. Throughout their course of study students will learn how to effectively manipulate/enhance photos in Adobe Photoshop. Students will develop a working digital portfolio to demonstrate their growth and understanding of photography. Students must follow accepted safety practices and are expected to exhibit skill and craftsmanship in their work. There is a lab fee of \$10, to cover the cost of materials used in the class. **(Level 1 Weighting)**

PROJECT DESIGN**Course No. 7515005 or 751501****(Prerequisite: 75% in Graphic Technology 1)****Credit: 0.5 or 1****Gr. 10-12**

Using a "corporation" model, students participating in this course will be divided into companies that will design and bid projects to prospective customers. If awarded the contract for the project, the students will utilize a range of technology skills to complete the product. The customers for the projects will be stock projects provided by the department or, when available, any project that is brought to the technology education department such as T-Shirts, banners, vinyl signs, and embroidered apparel. The content of the course will be the application of a wide range of technology education skills. From design and layout to actual production, students will use the skills from previous classes and those of their company members to compete for contracts to complete various projects proposed by the department or community. Students must follow accepted safety practices and are expected to exhibit skill and craftsmanship in their work. **(Level 1 Weighting)**

CAD 1 (Computer-Aided Design)**Course No. 7801****Credit: 0.5****Gr. 9-12**

This course will develop knowledge and skills in technical drafting techniques in our industrial and residential environment. This includes detailed one-view drawings, three-view drawings, and pictorial drawings in isometric and oblique. Computer-Aided Drafting technology will be the focus for the majority of the course. Requirements included successful completion of a reasonable number of drafting plates in each category, each one having an increasing degree of difficulty. **(Level 1 Weighting)**

ARCHITECTURAL CAD**Course No. 7803****(Prerequisites: Successful completion of CAD 1)****Credit: 0.5****Gr. 9-12**

This course provides the development of knowledge and skills in architectural drawing as related to residential home construction. Computer-Aided Design technology will be used in the production of all of the plates. Requirements include the design of a single-family house, producing a set of drawings and blueprints to include a basement plan, first-floor plan, wall section, plot plan elevations, and pictorial as a minimum requirement. **(Level 1 Weighting)**

3D CAD**Course No. 7802****(Prerequisite: 80% in any of the following: CAD 1, Engineering/Applied Technology, or Architectural CAD)****Credit: 0.5****Gr. 10-12**

This course provides students an opportunity to expand their CAD experience in the area of 3D CAD, 3D Printing, and model building. The emphasis of this course will be the production of 3D printed representations of designs created by students. This course extends the development of knowledge and skills in technical drawing, as well as sectional drawings, auxiliary views, and sheet metal development which include some review of skills learned in CAD 1, Applied Engineering or Architectural CAD. 3D Computer-Aided Design and printing technologies will be used to fulfill the course requirements which include the successful completion of a variety of drafting plates in each category with each one having an increasing degree of difficulty. **(Level 1 Weighting)**

ADVANCED CAD**Course No. 7804****(Prerequisite: Teacher Recommendation)****Credit: 0.5****Gr. 11-12**

This course provides the opportunity for students to continue independent study in drafting in either Engineering or Architectural work. Extensive experience using Computer-Aided Design (CAD) technology will be emphasized. Requirements include completion of a reasonable number of plates in either Engineering Drafting or Architectural Drafting based on student interest. **(Level 2 Weighting)**

AVIATION TECHNOLOGY 1(\$)**Course No. 7901005****Credit: 0.5****Gr. 9-12**

This course explores man's desire to fly and the technology used to accomplish it. The course will look at the aspects of flight from aviation history, basic flight principles, flight environment, airplane instruments, airport environment, flight planning and drone technology. Lab projects include constructing a scaled hot air balloon, model airplanes/gliders, and model wing development. In addition, flight training will be conducted utilizing flight simulator software. Students will also have an opportunity to participate in a field trip to Lancaster Airport to enhance the theory discussed in the course. This course will satisfy the Technology Education graduation requirement. There is a \$10 lab fee to cover the cost of materials used in the class. **(Level 1 Weighting)**

AVIATION TECHNOLOGY 2**Course No. 7903005****(Prerequisite: 75% in Aviation Technology 1)****Credit: 0.5****Gr. 10-12**

This course will focus on the study and operation of Unmanned Aerial Vehicles “UAVs” and how this technology is becoming more prevalent in our society. In this course, students will continue to build upon flight principles discussed in Aviation Technology and transfer those skills for safe manual operation on school-issued UAVs. The objective of this course is to provide the students of Conestoga Valley High School with the intellectual tools, manual flight skills, onboard camera skills, and study of FAA rules and regulations to safely and legally operate a UAV. Individuals 16 years or older have the option to sit for the FAA certification exam for unmanned UAV operation at an additional cost coordinated by the student and their family. **(Level 1 Weighting)**

AEROSPACE TECHNOLOGY (\$)**Course No. 7902005****(Prerequisite: 75% in Aviation Technology 1)****Credit: 0.5****Gr. 10-12**

This course is a continuation of Aviation Technology. Students will explore primarily today's flight technology and projections for future air and space travel. Studies will also include weight, and balance of aircraft and rockets and instrument guidance systems. There will be trips to museums and related aerospace/aviation facilities. Projects will include rotary wings, solid rockets, hydro rockets, as well as a variety of other projects of the students choosing. The course will include reading and writing assignments, computer use, presentations, and problem-solving. Students will be expected to adhere to required safety rules and pay a \$10 lab fee to cover materials.

(Level 1 Weighting)**VIDEO PRODUCTION TECHNOLOGY 1****Course No. 7910005****Credit: 0.5****Gr. 9-12**

This course will introduce students to the electronic media of video production. Students will be required to learn how to use the camera properly and use non-linear computer digital editing. Students will work in teams using a digital video camera to complete a variety of video assignments. Additionally, the student will be expected to produce two final edited projects complete with storyboards and final log sheets. Due to the nature of the course, students may have to put in extra time during non-class hours to complete their project assignments. Students must follow accepted safety practices and are expected to exhibit skill and craftsmanship in their work. This course will satisfy the Technology Education graduation requirement. **(Level 1 Weighting)**

VIDEO PRODUCTION TECHNOLOGY 2**Course No. 7911005 or 791101****(Prerequisite: 75% in Video Production Technology 1)****Credit: 0.5 or 1****Gr. 10-12**

This course continues studies in video production with emphasis on non-linear editing and digital work using “Final Cut Pro,” a high end editing software. Additional studies in sound and special effects will also be explored. Students will be required to work in teams to prepare a variety of segments that can be used for “The Morning Show”. Due to the nature of the course, students may have to put in extra time during non-class hours to complete their projects. Students must follow accepted safety practices and are expected to exhibit skill and craftsmanship in their work. **(Level 1 Weighting)**

ADVANCED VIDEO PRODUCTION TECHNOLOGY**Course No. 7912005 or 791201****(Prerequisite: 75% in Video Production Technology 2)****Credit: 0.5 or 1****Gr. 11-12**

This course allows students with a special interest in this dynamic field to pursue in-depth study, including additional work with “Final Cut Pro”. Additional studies in lighting and chromo screen work will be explored. Students will also learn how to use the studio equipment to broadcast a show. Students will be required to produce a number of video segments and projects. Due to the nature of the course, students may have to put in extra time during non-class hours to complete their projects. Students must follow accepted safety practices and are expected to exhibit skill and craftsmanship in their work. **(Level 2 Weighting)**

TELEVISION PRODUCTION**Course No. 791401****(Prerequisite: Teacher Recommendation)****Credit: 1 or 2****Gr. 10-12**

Students in this course will fully engage in the production of a television news broadcast each day from the school's TV studio. Course content will involve all activities necessary for the production of an informational news show including planning, directing, technical and informational procedures, writing and editing material, creating special features, operating video and audio equipment, and control room duties and functions. Students will study and be assigned to various production roles depending on experience, expertise, and programming needs and will be evaluated using industry standards of employability. Students will also complete a series of career essays about the jobs performed during production and are expected to exhibit skill and craftsmanship in their work. Accepted safety practices must be followed at all times. To enroll in the course students must be invited (each year) by the course instructor, complete an interview, and commit in writing to the standards and expectations of the course. Invitations to participate in the course are based on a five-component rubric based on technical knowledge and skills, work ethic, dependability, character, and commitment. Successful participation in the middle school video production program and/or Video Production I are prerequisites for an invitation to the course.

(Level 1 Weighting)

WORLD LANGUAGES

Some colleges and universities require multiple years of coursework in a world language. Other colleges and universities may not have this requirement. Students may study more than one World Language.

GERMAN COURSES

GERMAN 1

Course No. 5211

Credit: 1

Gr. 9-12

This course teaches students the basic skills of listening, speaking, reading, and writing for the purpose of communication. Level 1 is the first step toward the acquisition of a basic vocabulary, an understanding of basic grammatical structures, the development of an accurate pronunciation, and an acquaintance with the people and their culture. Emphasis is on those materials, strategies, and activities that will enhance the student's ability to function in the language. Teachers will assess oral and written skills on a regular basis. Students will be introduced to German-speaking countries and cultures while learning how to describe themselves and other. They will also learn how to describe their school day, how students spend their free time, and discuss their families. **(Level 1 Weighting)**

GERMAN 2

Course No. 5221

(Prerequisite: 75% in German 1)

Credit: 1

Gr. 9-12

Students in the second level of a language will continue practicing the communication functions introduced in Level 1. Students will have many opportunities to practice the language in the four important skill areas of listening, speaking, reading, and writing. The target language will be the primary language used in the classroom. Teachers will assess oral and written skills on a regular basis. Students will take a deep dive into transportation and travel in the German speaking world, specifically Berlin. Additionally, they will develop a greater ability to discuss animals, professions, as well as media in Germany. **(Level 1 Weighting)**

GERMAN 3

Course No. 5231

(Prerequisite: 75% in German 2)

Credit: 1

Gr. 10-12

The third level of a language is designed so that students continue to develop proficiency in all four skill areas of the language. Students will continue to increase their vocabulary and practice grammatical structures. The target language will be the primary language used in the classroom. Additionally, students will explore the literature, history, geography, and culture of the target language. Students will learn about living and housing differences in the German-speaking world. Students will also learn more about preparing traditional German food, express their emotions in German, and compare German and American cultures. Finally, students will read traditional German fairy tales from the Grimm Brothers. **(Level 1 Weighting)**

HONORS GERMAN 4, 5 & 6

Course No. 5241H

(Prerequisite: Teacher Recommendation)

Credit: 1

Gr. 10-12

German 4-6 – Students in German levels 4 through 6 will experience a rotating curriculum. Some topics covered include East and West Germany, as well as the impact the reunification has had on Germany today. Also, students will learn about Austrian culture and food, will be able to discuss environmental issues in Germany and at home, developing technology and the impact of social media, as well as the growing multicultural society in Germany and around the globe. Teachers will assess oral and written skills on a regular basis. Tutoring will be available for those wishing to take the German AP exam. **(Level 2 Weighting)**

SPANISH COURSES

HONORS SPANISH 1

Course No. 5011H

(Prerequisite: Teacher Recommendation)

Credit: 1

Gr. 9-12

This rigorous, accelerated course will teach students the basic skills of listening, speaking, reading, and writing for the purpose of communication at an accelerated pace. Honors Level 1 is the first step toward the acquisition of a basic vocabulary, an understanding of basic grammatical structures, the development of an accurate pronunciation, and an acquaintance with the people and their culture. Emphasis is on those materials, strategies, and activities that will enhance the student's ability to function in the language with a strong emphasis on listening & speaking. Teachers will assess oral and written skills on a regular basis through dialogues, questioning, and presentations. **(Level 2 Weighting)**

SPANISH 1

Course No. 5011

Credit: 1

Gr. 9-12

This course will teach students the basic skills of listening, speaking, reading, and writing for the purpose of communication. Level 1 is the first step toward the acquisition of a basic vocabulary, an understanding of basic grammatical structures, the development of an accurate pronunciation, and an acquaintance with the people and their culture. Emphasis is on those materials, strategies, and activities that will enhance the student's ability to function in the language. Teachers will assess oral and written skills on a regular basis.

(Level 1 Weighting)

HONORS SPANISH 2

Course No. 5021H

(Prerequisite: 80% in Honors Spanish 1 or 90% in Spanish 1)

Credit: 1

Gr. 10-12

This rigorous, accelerated course expands upon the content presented in Honors Spanish 1. Students will continue practicing the communication functions and the four important skill areas of listening, speaking, reading, and writing in Spanish for the purpose of communication. Spanish will be the primary language used in the classroom. Teachers will assess oral and written skills on a regular basis. Students will be expected to communicate in Spanish. **(Level 2 Weighting)**

SPANISH 2

Course No. 5021

(Prerequisite: 75% in Spanish 1)

Credit: 1

Gr. 9-12

Students in the second level of a language will continue practicing the communication functions introduced in Level 1. Students will have many opportunities to practice the language in the four important skill areas of listening, speaking, reading, and writing. Spanish will be the primary language used in the classroom. Teachers will assess oral and written skills on a regular basis. Students will be expected to communicate in Spanish. **(Level 1 Weighting)**

HONORS SPANISH 3

Course No. 5031

(Prerequisite: 80% in Honors Spanish 2 or 90% in Spanish 2)

Credit: 1

Gr. 10-12

The third level of a language is designed so that students continue to develop proficiency in all four skill areas of the language. Students will continue to increase their vocabulary and practice grammatical structures. Additionally, students will explore the literature, history, geography, and culture of the target language. In Spanish, students may study fairytales and then create their own. Emphasis is on those materials, strategies, and activities that will enhance the student's ability to function in all contexts within the language. Spanish is the primary language used in the classroom. Teachers will assess oral and written skills on a regular basis. **(Level 2 Weighting)**

HONORS SPANISH 4

Course No. 5041H

(Prerequisite: 80% in Honors Spanish 3)

Credit: 1

Gr. 10-12

This course continues its emphasis on proficiency in the four skill areas of the language. Students will continue to increase their vocabulary and practice grammatical structures, as well as explore literature and culture. Through speaking the Spanish language, students will read various genres, including poetry and short stories. Students will write essays in the target language. Appropriate materials, strategies, activities, and special projects will enhance the learning process. Spanish is the language used in the classroom. Teachers will assess oral and written skills on a regular basis. **(Level 2 Weighting)**

HONORS SPANISH 5**Course No. 5051H****(Prerequisite: 80% in Honors Spanish 4)****Credit: 1****Gr. 11-12**

This course continues its emphasis on proficiency in the four skill areas of the language. Students will study additional literature, culture, history, and geography. Spanish students will read various genres, including poetry, short stories, and novels, and students will write essays in the target language. Student presentations are an essential part of this level. Appropriate materials, strategies, activities, and special projects will enhance the learning process. Spanish is the primary language used in this class. Teachers will assess oral and written skills on a regular basis. **(Level 2 Weighting)**

AP SPANISH LANGUAGE and CULTURE (Online) (\$)**Course No. 5061APV****(Prerequisite: 80% in Honors Spanish 5)****Credit: 1 or 2****Gr. 11 - 12**

The AP Spanish Language and Culture course is an advanced language course in which students are directly prepared for the AP Spanish Language and Culture test. It uses as its foundation the three modes of communication: interpersonal, interpretive, and presentational. The course is conducted almost exclusively in Spanish. The course is based on the six themes required by the College Board: (1) global challenges, (2) science and technology, (3) contemporary life, (4) personal and public identities, (5) families and communities, and (6) beauty and aesthetics. The course teaches language structures in context and focuses on the development of fluency to convey meaning. Students explore culture in both contemporary and historical contexts to develop an awareness and appreciation of cultural products, practices, and perspectives. Students should expect to listen to, read, and understand a wide variety of authentic Spanish-language materials and sources, demonstrate proficiency in interpersonal, interpretive, and presentational communication using Spanish, gain knowledge and understanding of the cultures of Spanish speaking areas of the world, use Spanish to connect with other disciplines and expand knowledge in a wide variety of contexts, develop insight into the nature of the Spanish language and its culture, and use Spanish to participate in communities at home and around the world. The AP® Spanish Language and Culture course is college-level and can be compared to that of a third-year college course. **(Level 3 Weighting)**

PUPIL SERVICES

SPECIAL EDUCATION

A student's enrollment in the Special Education Program is contingent upon the multi-disciplinary evaluation team's recommendation and development of an appropriate individualized education plan and notice of recommended education placement (NOREP) signed by a parent.

Special education services are provided to identified students in accordance with their individual education plan (IEP). Special education services are delivered using the standard of "least restrictive environment" (LRE) in accordance with the federal Individuals with Disabilities Education Act (IDEA), Pennsylvania education law known as Chapter 14, and the Gaskin Settlement Agreement of 2005. Conestoga Valley utilizes inclusive practices in accordance with students' IEPs in meeting this standard. In particular, special and regular education teachers support students in regular education classrooms using co-teaching strategies and methods. Students requiring special education services outside the regular education classroom receive instruction and/or services in a supportive classroom environment and/or in other settings or conditions as indicated on students' IEPs.

LEARNING SUPPORT

Services and supports are provided to identify students based on their IEP. Services are centered on academic needs in the areas of reading, mathematics, and writing. Students receive all supports and services in an Academic Support period.

EMOTIONAL SUPPORT

Services and supports are provided to identify students based on their IEP. Services are centered on a social skills curriculum. Positive Behavior Support Plans (PBSP) are developed in accordance with individual student needs.

LIFE SKILLS SUPPORT

Services and supports are provided to identify students based on their IEP. Services are centered on a life skills curriculum, the transition from school to work, and reading and math academic needs. Students receiving life skills services and supports are instructed and assessed on the Alternative Standards and will take the Alternative Assessment (PASA).

ACADEMIC SUPPORT - Students with IEPs may be scheduled for this course to provide services and support based on IEP goals and specially designed instructional needs.

GIFTED EDUCATION COURSES

HONORS SAGE

Credit: 0.5

Course No. 0311H.5

Gr. 9-12

This course is designed for students who enjoy learning in grades 9-12. Students develop research, writing, problem-solving, and critical thinking skills by studying an in-depth independently chosen research project. One project is due per quarter. Students also work with SAT and GRE vocabulary words each week. The class focuses on a variety of inter-disciplinary topics and readings, enrichment activities, group projects, and discussions. Topic subjects change each year and rotate on a four-year basis. **(Level 2 Weighting)**

HONORS SAGE MOCK TRIAL

Credit: 1 (FIRST SEMESTER EACH YEAR)

Course No. 0310H-MT

Gr. 9-12

This course is designed for students in grades 9-12 who are interested in learning more about the law. Students will learn trial techniques, the Federal Rules of Evidence, and how to write arguments and examinations. They will then prepare and argue a full trial in competition against other schools. The course is offered first semester each year, with evening practices from November –March during the competition season. **(Level 2 Weighting)**

ENGLISH LANGUAGE DEVELOPMENT

NEWCOMER ELA

Course No. 0821

(Prerequisite: Approval of ESL Department, Screener, or Testing Results)

Credits: 1 per semester

Gr. 9-12

ESL Entering is intended for students with no previous experience with the English language. The course focuses on mastery of the sounds of English, acquisition of the language skills needed to understand and participate in basic social interactions and an introduction to basic academic language. Students are tested for placement in this class. Newcomer ELA is a year-long, two semester course.

(Level 1 Weighting)

ELA 1

Course No. 0823

(Prerequisite: Approval of ESL Department, Screener, or Testing Results)

Credits: 1 per semester

Gr. 9-12

ELA 1 is a course intended for students with a foundation in phonological awareness of the English language as well as the ability to communicate in basic interpersonal English communication. This course focuses on improving oral language abilities both in social and academic settings as well as vocabulary development across multiple content areas. (Level 1 Weighting)

ELA 2

Course No. 0825

(Prerequisite: Approval of ESL Department, Screener, or Testing Results)

Credits: 1 per semester

Gr. 9-12

ESL Beginning is intended for students who have very limited proficiency in English. The course continues to develop social language and places increasing emphasis on building academic language skill in the four domains: listening, speaking, reading, and writing. Students will work towards mastery of the simple sentence in their productive language. Students are tested for placement in this class. ELA 2 is a two-semester course. (Level 1 Weighting)

ELA 3

Course No. 0827

(Prerequisite: Approval of ESL Department, Screener, or Testing Results)

Credits: 1 per semester

Gr. 9-12

Listening and speaking skills will be developed with an emphasis on pronunciation skills, grammar, and vocabulary development. The course will emphasize reading comprehension and writing with the goal of producing expanded and complex sentences, coherent paragraphs, and cohesive essays. Students will be tested for placement in this class. (Level 1 Weighting)

ELA 4

Course No. 0829

(Prerequisite: Approval of ESL Department, Screener, or Testing Results)

Credits: 1 per semester

Gr. 9-12

Listening and speaking skills continue to be developed with an emphasis on pronunciation skills, grammar, and vocabulary development. The course will emphasize reading comprehension and writing practice with the goal of producing expanded and complex sentences and coherent paragraphs. Students will be tested for placement in this class. ESL Developing 2 is a year-long, two (2) semester course. (Level 1 Weighting)

ELA 5

Course No. 0831

(Prerequisite: Approval of ESL Department, Screener, or Testing Results)

Credits: 1 per semester

Gr. 9-12

Reading, writing, and speaking skills will continue to be developed. This course emphasizes strategies for improving writing and speaking skills and reading comprehension through responses to various genres of multicultural literature, including drama, poetry, short stories, graphic novels, and novels. ESL Expanding is a year-long, two (2) semester course. (Level 1 Weighting)

NEWCOMER SOCIAL STUDIES

Course No. 0835

Credit: 1 Credit per semester (elective credit)

Gr. 9-12

This course introduces newcomer English learners to the fundamentals of American civics, focusing on the rights and responsibilities of citizens, the three branches of government, and key democratic principles. Through simplified readings, engaging activities, and vocabulary development, students will explore how the U.S. government works and compare it to systems in their home countries. By the end of the course, students will be able to explain important concepts like checks and balances, democracy, and citizenship while building their English language skills. (Level 1 Weighting)

NEWCOMER MATH

Course No. 0837

Credit: 1 Credit per semester (elective credit)

Gr. 9-12

Newcomer English Learners will develop English proficiency through the content of math. This course focuses on building pre-Algebra and Algebra skills while learning math terminology in English and addresses individual student needs to ensure success.

(Level 1 Weighting)



CONESTOGA VALLEY VIRTUAL ACADEMY

FLEXIBLE, PERSONALIZED, CONNECTED

Conestoga Valley High School has several options for meeting graduation requirements through online learning, including full-time as a student in our Conestoga Valley Virtual Academy (CVVA) or through a more blended schedule of in-person and virtual courses. Additional information regarding CVVA online learning is available on the CVSD website. Contact your school counselor or the Administrator for Non-Traditional Learning and Career Readiness (Melanie Upton, melanie_upton@conestogavalley.org) for more details.

Why choose CVVA courses?

- Greater flexibility in your scheduling (for college or advanced courses, internships, worked-based learning, etc.) or you cannot fit an on-campus course on your schedule.
- Individualized learning experience to meet academic, extracurricular, and personal needs

Students choosing virtual learning have access to all required courses (English, Math, Science, Social Studies, Physical Education, Career Education, Digital Literacy 4 Today, Current Health Issues, Consumer Skills, Personal & Family Development) and can satisfy their Art, Music, and Technology Education Requirements online.

COMMUNICATIONS (ENGLISH)

All students are required to take at least one (1) credit of core English each year at CVHS. All core courses have required research papers or projects. Students wishing to pursue additional credits should work with their school counselor to ensure appropriate sequencing. In addition to required grade-level English courses, electives are also available. These electives do not count toward the graduation requirements but may be counted as Elective credits for graduation.

CVVA HONORS ENGLISH 1

Course No. CVVA1011H

(Placement based on 8th Grade performance data)

Credit: 1

Gr. 9

This rigorous course is an integrated curriculum with challenging assignments aimed at preparing Honors-level students for advanced work in the study of literature and language arts. Each unit contains thematically related lessons in five domains: reading and the study of literature, reading informational text, writing, speaking and listening, and language study, which includes word knowledge and grammar skills. Topics are presented in ways that help students relate literacy skills to other aspects of their lives. Writing assignments include narrative, expository, and persuasive/argumentative modes and emphasize the use of details and reasoning to support ideas. Assignments that are specific to the Honors level of this course ask students to apply advanced skills. Students move immediately beyond the identification of literary elements or aspects of informational text to the analysis of these components. The course consists of integrated units focused on a theme or mode of study. Literature study focuses on the analysis of different forms of literature and on comparative studies of world literature and literature delivered in different media. Writing and informational text lessons guide students through the stages of research and demonstrate how to evaluate, integrate, and share the information gathered during research. Students are required to share their ideas and analysis using several different modes, including oral and multimedia presentations. Students are required to read select texts before the start of the course. A very demanding course with high academic expectations, this course is designed for students interested in pursuing a college degree or other post-secondary studies. **Summer Work is required for this course and must be submitted before the school year begins. Students enrolled in this course will also be enrolled in Advanced Composition in the same year. (Level 2 Weighting)**

CVVA COLLEGE PREP ENGLISH 1

Course No. CVVA1011

(Placement based on 8th Grade performance data)

Credit: 1

Gr. 9

This course contains thematically related lessons in five domains: reading and the study of literature, reading informational text, writing, speaking and listening, and language study, which includes word knowledge and grammar skills. Topics are presented in ways that help young adolescents relate literacy skills to other aspects of their lives. Writing assignments include narrative, expository, and persuasive/argumentative modes and emphasize the use of details and reasoning to support ideas. The course consists of integrated units focused on a theme or mode of study. Literature study focuses on the analysis of different forms of literature and on comparative studies of world literature and literature delivered in different media. Writing and informational text lessons guide students through the stages of research and demonstrate how to evaluate, integrate, and share the information gathered during research. Students are required to share their ideas and analysis using several different modes, including oral and multimedia presentations. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 1 Weighting)**

CVVA ENGLISH 1**Course No. CVVA1012****(Placement based on 8th Grade performance data)****Credit: 1****Gr. 9**

This course contains thematically related lessons in five domains: reading and the study of literature, reading informational text, writing, speaking and listening, and language study. Topics are presented in ways that help young adolescents relate literacy skills to other aspects of their lives at a pace that meets their learning style. Writing assignments include narrative, expository, and persuasive/argumentative modes and emphasize the use of details and reasoning to support ideas. The course consists of integrated units focused on a theme or mode of study. Literature study focuses on the analysis of different forms of literature and on comparative studies of world literature and literature delivered in different media. Writing and informational text lessons guide students through the stages of research and demonstrate how to evaluate, integrate, and share the information gathered during research. Students are required to share their ideas and analysis using several different modes, including oral and multimedia presentations. This course is designed for students pursuing a career immediately after high school or a 2-year college degree. **(Level 1 Weighting)**

CVVA HONORS ENGLISH 2**Course No. CVVA1021H****(Prerequisite: 80% in Honors English 1, 90% in College Prep English 1, or Teacher Recommendation)****Credit: 1****Gr. 10**

In this course, students learn how to express their thoughts and feelings in writing. Emphasis is placed on the specific traits of the 6-Traits of Writing: Ideas, Organization, Voice, Word Choice, Sentence Fluency, and Conventions. Students also review the 5-step writing process as they practice the skills of prewriting, drafting, revising, editing, and publishing. Students broaden their reading experience with exposure to literature from around the world. Students are given vast exposure to a variety of reading samples and are encouraged to connect and relate to the various authors and cultures within the contexts of the passages and works. Reading strategies, literary elements, and new vocabulary and Latin roots are introduced. In addition, students are guided through an active reading process in preparation to prepare them for high-stakes testing which will assess their abilities to make inferences, comprehend, and analyze a variety of reading materials. Students are expected to respond to assigned reading materials in a variety of activities and manners. Students will be graded on their abilities to review, summarize, analyze, connect, and respond to reading materials. Additionally, students will practice important reading strategies such as determining the meaning of unfamiliar words. Students are also expected to create original materials in an effort to grasp the complexity of the genres. Students are required to read select texts before the start of the course. To graduate, students will be required to be proficient on the Literature Keystone Exam given as the final for the course. A very demanding course with high academic expectations, this course is designed for students interested in pursuing a college degree or other post-secondary studies.

Summer Work is required for this course and must be submitted before the school year begins.**(Level 2 Weighting)****CVVA COLLEGE PREP ENGLISH 2****Course No. CVVA1021****(Prerequisite: 75% in College Prep English 1, 90% in English 1, or Teacher Recommendation)****Credit: 1****Gr. 10**

In this course, students learn how to express their thoughts and feelings in writing. Emphasis is placed on the specific traits of the 6-Traits of Writing: Ideas, Organization, Voice, Word Choice, Sentence Fluency, and Conventions. Students also review the 5-step writing process as they practice the skills of prewriting, drafting, revising, editing, and publishing. Students broaden their reading experience with exposure to literature from around the world. Students are given vast exposure to a variety of reading samples and are encouraged to connect and relate to the various authors and cultures within the contexts of the passages and works. Reading strategies, literary elements, and new vocabulary and Latin roots are introduced. In addition, students are guided through an active reading process in preparation to prepare them for high-stakes testing which will assess their abilities to make inferences, comprehend, and analyze a variety of reading materials. Students are expected to respond to assigned reading materials in a variety of activities and manners. Students will be graded on their abilities to review, summarize, analyze, connect, and respond to reading materials. Additionally, students will practice important reading strategies such as determining the meaning of unfamiliar words. Students are also expected to create original materials in an effort to grasp the complexity of the genres. To graduate, students will be required to be proficient on the Literature Keystone Exam given as the final for the course. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 1 Weighting)**

CVVA ENGLISH 2**Course No. CVVA1022****(Prerequisite: Successful completion of English 1)****Credit: 1****Gr. 10**

In this course, students learn how to express their thoughts and feelings in writing at a pace that meets their learning style. Emphasis is placed on the specific traits of the 6-Traits of Writing: Ideas, Organization, Voice, Word Choice, Sentence Fluency, and Conventions. Students also review the 5-step writing process as they practice the skills of prewriting, drafting, revising, editing, and publishing. Students broaden their reading experience with exposure to literature from around the world. Students are given vast exposure to a variety of reading samples and are encouraged to connect and relate to the various authors and cultures within the contexts of the passages and works. Reading strategies, literary elements, and new vocabulary and Latin roots are introduced. In addition, students are guided through an active reading process in preparation to prepare them for high-stakes testing which will assess their abilities to make inferences, comprehend, and analyze a variety of reading materials. Students are expected to respond to assigned reading materials in a variety of activities and manners. Students will be graded on their abilities to review, summarize, analyze, connect, and respond to reading materials. Additionally, students will practice important reading strategies such as determining the meaning of unfamiliar words. Students are also expected to create original materials in an effort to grasp the complexity of the genres. To graduate, students will be required to be proficient on the Literature Keystone Exam given as the final for the course. This course is designed for students pursuing a career immediately after high school or a 2-year college degree. **(Level 1 Weighting)**

CVVA HONORS ENGLISH 3**Course No. CVVA102901H****(Prerequisite: Advanced Composition and one of the following: 75% or better in an Honors or****Dual-E English course, 90% in a College Prep English course, or Teacher Recommendation)****Credit: 1****Gr. 11**

This course consists of units focused on historical eras and literary movements of the 20th and 21st centuries, such as Naturalism, Imagism, the Harlem Renaissance, and Post-Modernism. Literature analysis lessons focus on the forms of literature that were most commonly written during the Twentieth Century and how the forms, styles, and techniques of that century inform literature written today. Students will also evaluate various modes and forms of language expression, including single media and multimedia messages. Writing and informational text lessons guide students through the stages of a rigorous research process and demonstrate how to evaluate, integrate, and share the information gathered during research. Students are required to share their ideas and analysis using several different modes, including oral and multimedia presentations. The course provides additional challenging assignments aimed at preparing college-bound students for advanced work in the study of literature and language arts. Students are required to read select texts before the start of the course. This is a very demanding course with high academic expectations. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **Summer Work is required for this course and must be submitted before the school year begins. (Level 2 Weighting)**

CVVA COLLEGE PREP ENGLISH 3**Course No. CVVA102901****(Prerequisite: 75% in a College Prep English course, 90% in a general-level English course, or Teacher Recommendation)****Credit: 1****Gr. 11**

This course consists of units focused on historical eras and literary movements of the 20th and 21st century, such as Naturalism, Imagism, the Harlem Renaissance, and Post-Modernism. Literature analysis lessons focus on the forms of literature that were most commonly written during the Twentieth Century and how the forms, styles, and techniques of that century inform literature written today. Students will also evaluate various modes and forms of language expression, including single media and multimedia messages. Writing and informational text lessons guide students through the stages of a rigorous research process and demonstrate how to evaluate, integrate, and share the information gathered during research. Students are required to share their ideas and analysis using several different modes, including oral and multimedia presentations. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 1 Weighting)**

CVVA ENGLISH 3**Course No. CVVA103001****(Prerequisite: Successful completion of English 1 and 2)****Credit: 1****Gr. 11**

This course consists of units focused on historical eras and literary movements of the 20th and 21st century, such as Naturalism, Imagism, the Harlem Renaissance, and Post-Modernism. Literature analysis lessons focus on the forms of literature that were most commonly written during the Twentieth Century and how the forms, styles, and techniques of that century inform literature written today. Students will also evaluate various modes and forms of language expression, including single media and multimedia messages. Students are required to share their ideas and analysis using several different modes, including oral and multimedia presentations. This course is designed for students pursuing a career immediately after high school or a 2-year college degree. **(Level 1 Weighting)**

CVVA HONORS ENGLISH 4

Course No. CVVA103901H

(Prerequisite: Advanced Composition and one of the following: 75% or better in an Honors or Dual-E English course, 90% in a College Prep English course, or Teacher Recommendation)**Credit: 1****Gr. 12**

This course focuses on British Literature from the Anglo-Saxon period up to Romanticism. Students will analyze how the English language evolved over time and how events of the time influenced the writings for each period. Epics, short stories, poetry, drama, and essays will be analyzed in depth to enrich students' comprehension. Each module includes a style of composition for students to explore with the help of student examples to act as a guide. Students are required to read select texts before the start of the course. This is a very demanding course with high academic expectations. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **Summer Work is required for this course and must be submitted before the school year begins. (Level 2 Weighting)**

CVVA COLLEGE PREP ENGLISH 4

Course No. CVVA103901

(Prerequisite: 75% in a College Prep English course, 90% in a general-level English course, or Teacher Recommendation)**Credit: 1****Gr. 12**

This course focuses on British Literature from the Anglo-Saxon period up to Romanticism. Students will analyze how the English language evolved over time and how events of the time influenced the writings for each period. Epics, short stories, poetry, drama, and essays will be analyzed in depth to enrich students' comprehension. Each module includes a style of composition for students to explore with the help of student examples to act as a guide. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 1 Weighting)**

CVVA ENGLISH 4

Course No. CVVA104501

(Prerequisite: Successful completion of English 1, 2, and 3)**Credit: 1****Gr. 12**

This course focuses on British Literature from the Anglo-Saxon period up to Romanticism. Students will analyze how the English language evolved over time and how events of the time influenced the writings for each period. Epics, short stories, poetry, drama, and essays will be analyzed in depth to enrich students' comprehension. Each module includes a style of composition for students to explore with the help of student examples to act as a guide. This course is designed for students pursuing a career immediately after high school or a 2-year college degree. **(Level 1 Weighting)**

CVVA COMMUNICATIONS ELECTIVES

The following courses are electives. They do not fulfill the graduation requirement for English credits. They may be counted as elective credits required for graduation.

CVVA ADVANCED COMPOSITION

Course No. CVVA1341H05

(Serves as a prerequisite for 11th and 12th grade honors classes, DUAL E and AP courses)**Credit: 0.5****Gr. 9-12**

This intensive writing course is designed for the student who desires to develop strong written communication skills and/or is planning to take 11th and/or 12th grade College in the High School English or Honors level courses. As you move through high school to college or to your career, the types of writing and documents become more high stakes. Real-world information can be journalistic and researched-based articles, legal, insurance, college entrance forms, employment, vehicle-related documents, and more. Learn how to critically read, write, and evaluate real-world writings to set you up for your future success. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **((Level 2 Weighting)**

CVVA CAREERS IN FILM & THEATRE

Course No. CVVA1049005

Credit: 0.5**Gr. 9-12**

This introductory course provides a dive deeper into the making of movies and theater performances. Explore multiple facets of the production process from both theater and film. Gain insights from industry leaders along the way and learn to think critically about different aspects to develop your unit-by-unit blog. You'll fully understand how high-quality entertainment and art are crafted for the theater and the silver screen. **(Level 1 Weighting)**

CVVA CREATIVE WRITING**Course No. CVVA1322005****Credit: 0.5****Gr. 9-12**

This course requires students to consider the importance of word play exercises in improving their facility with language while building a compelling and creative writing style. Focusing on word nuances and precision, later lessons guide students to write in a variety of short modes—including poetry, song lyrics, prose poetry, short stories, and creative nonfiction. There are several opportunities for peer review. Students learn best practices for participating in writing workshops. **(Level 1 Weighting)**

CVVA INTRODUCTION TO THEATER**Course No. CVVA1431005****Credit: 0.5****Gr. 9-12**

This course provides a thorough introduction to the theater by providing an overview of major topics in theater studies, with a blend of theoretical and practical lessons. In the first half of this course, students will learn about the definitions of theater, theater history, and contemporary theatrical genres. The second half of the course will guide students through all the elements of putting on a professional theatrical production. Students will learn about the entire production process, from playwriting through opening night, including elements of technical theater, the rehearsal process, and audience response. Whether the student is an aspiring actor, technician, director, producer, or even just an avid theatergoer, this course will be of interest. **(Level 1 Weighting)**

CVVA PUBLIC SPEAKING**Course No. CVVA1412005****Credit: 0.5****Gr. 9-12**

Bring your speeches to life by learning about body language, vocal and other techniques. Learn about logic and reason while gaining the confidence to help create and deliver great presentations and speeches. You will also critically examine your speeches and presentations and those of others to improve upon your in-person and virtual presentation skills. At the conclusion of the course, students should feel confident to plan, prepare, rehearse, and present speeches for various purposes and in a variety of speaking situations. **(Level 1 Weighting)**

MATHEMATICS

Three (3) mathematics credits are required for graduation (Algebra 1, Geometry, and Algebra 2). College-bound students are encouraged to take advanced math courses through their senior year.

Students will use a calculator to save time when lengthy calculations are unavoidable, to check solutions to problems, or as a tool to learn or enhance mathematical concepts. Students should have access to a graphing calculator. The recommended calculator is the TI-84 Plus Graphing Calculator. Students can also access the calculator app on their iPads called “Calculate84.” This calculator provides the same features as the physical TI-84 calculator.

CVVA COLLEGE PREP ALGEBRA 1**Course No. CVVA4011****(Placement based on 8th grade performance data)****Credit: 1****Gr. 9**

College Prep Algebra 1 is the first course offered in the College Prep pathway. Content includes but is not limited to the real number system, equations and inequalities, linear equations and inequalities, systems of linear equations and inequalities, exponents and polynomials, factoring, and data analysis. This course has been developed in accordance with the Algebra 1 Keystone Assessment Anchors and Eligible Content. To graduate, students are required to be proficient on the Algebra 1 Keystone Exam given as the final for the course. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 1 Weighting)**

CVVA ALGEBRA 1A**Course No. CVVA 4012A****(Placement based on 8th grade performance data)****Credit: 1****Gr.9**

Algebra 1A is the first course in a two-course sequence to fulfill the Algebra 1 requirement, taken prior to Algebra 1B. Students in this course will be enrolled in Algebra 1B in the next semester. Content includes the real number system, equations and inequalities, linear equations and inequalities, and systems of linear equations and inequalities. This course has been developed in accordance with the Algebra 1 Keystone Assessment Anchors and Eligible Content. **(Level 1 Weighting)**

CVVA ALGEBRA 1B

Course No. CVVA4012B

(Prerequisite: Algebra 1A or equivalent)**Credit: 1****Gr. 9**

Algebra 1B is the second course in a 2-course sequence to fulfill the Algebra 1 requirement, to be taken in the semester after successful completion of Algebra 1A. Content includes exponents and polynomials, factoring and applications, and data analysis. This course has been developed in accordance with the Algebra 1 Keystone Assessment Anchors and Eligible Content. To graduate, students are required to be proficient on the Algebra 1 Keystone Exam given as the final for the course. **(Level 1 Weighting)**

CVVA HONORS GEOMETRY

Course No. CVVA4010H

(Prerequisite: 80% in 8th grade Algebra 1, or 90% in College Prep Algebra 1, or Teacher Recommendation)**Credit: 1****Gr. 9-10**

Honors Geometry is the first course in the Honors pathway. This course is the study of the measurement of the world, with a focus on the application of geometric concepts. Through real-world applications, the honors student sees how geometric reasoning provides insight into everyday life. The course begins with the tools needed in Geometry. From these foundations, the student explores the measure of line segments, angles, and two-dimensional figures. Honors students are expected to complete several assignments within each module that demonstrate their knowledge of the applications of geometry. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 2 Weighting)**

CVVA COLLEGE PREP GEOMETRY

Course No. CVVA4021

(Prerequisite: 75% in College Prep Algebra 1, 90% in Algebra 1B, or Teacher Recommendation)**Credit: 1****Gr. 9-10**

College Prep Geometry is the second course in the College Prep pathway. Through practical applications, the student sees how geometric reasoning provides insight into everyday life. The course begins with the tools needed in Geometry. From these foundations, the student explores the measure of line segments, angles, and two-dimensional figures. Students will learn about similarity, triangles and trigonometric ratios. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 1 Weighting)**

CVVA GEOMETRY

Course No. 4022CVVA

(Prerequisite: Successful completion of Algebra 1)**Credit: 1****Gr. 9-10**

Geometry is the second course in the General pathway. Through practical applications, the student sees how geometric reasoning provides insight into everyday life. The course begins with the tools needed in Geometry. From these foundations, the student explores the measure of line segments, angles, and two-dimensional figures. Students will learn about similarity, triangles, and trigonometric ratios. This course is designed for students pursuing a career immediately after high school or a 2-year college degree. **(Level 1 Weighting)**

CVVA HONORS ALGEBRA 2

Course No. CVVA4020H

(Prerequisite: 80% in Honors Geometry, 90% in College Prep Geometry, or Teacher Recommendation)**Credit: 1****Gr. 9-12**

Honors Algebra 2 is the second course in the Honors pathway. Content includes but is not limited to quadratic equations and functions, advanced factoring, transformations of parent functions, polynomial functions, radical functions, rational functions, and exponential and logarithmic functions. Topics are covered to provide students with an in-depth understanding of each function family. An emphasis is placed on the use of appropriate functions to model real-world situations and solve problems that arise from those situations. The focus is also on graphing functions and understanding and identifying the parts of a graph. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 2 Weighting)**

CVVVA COLLEGE PREP ALGEBRA 2

Course No. CVVA4031

(Prerequisite: 75% in College Prep Geometry, 90% in Geometry, or Teacher Recommendation)**Credit: 1****Gr. 9-12**

College Prep Algebra 2 is the third course in the College Prep pathway. Content includes but is not limited to quadratic equations and functions, polynomial functions, radical functions, and an introduction to logarithms. Content includes using appropriate functions to model real-world situations and solve problems that arise from those situations. The focus is also on graphing functions and understanding and identifying the parts of a graph. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 1 Weighting)**

CVVA ALGEBRA 2

Course No. CVVA4032

(Prerequisite: Successful completion of Geometry)**Credit: 1****Gr. 9-12**

Algebra 2 is the third course in the General pathway. Content includes but is not limited to extensions of the algebra 1 strands, quadratic functions, polynomials, radical and rational functions. The focus is also on graphing functions and understanding and identifying the parts of a graph. This course is designed for students pursuing a career immediately after high school or a 2-year college degree. **(Level 1 Weighting)**

CVVA HONORS PRE-CALCULUS

Course No. CVVA4030H

(Prerequisite: 80% in Honors Algebra 2, 90% in College Prep Algebra 2, or Teacher Recommendation)**Credit: 1****Gr. 11-12**

Honors Pre-Calculus is the third course in the Honors pathway. Introductory calculus theory is introduced in this course. Topics include conic sections, exponential and logarithmic functions, sequence and series, right triangle trigonometry, Trigonometric functions and the unit circle, and an introduction to limits. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 2 Weighting)**

CVVA COLLEGE PREP PRE-CALCULUS

Course No. CVVA4041

(Prerequisite: 75% in College Prep Algebra 2 or Teacher Recommendation)**Credit: 1****Gr. 11-12**

This course prepares students for calculus. Topics include conic sections, exponential and logarithmic functions, sequence and series, right triangle trigonometry, Trigonometric functions and the unit circle, and an introduction to limits. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 1 Weighting)**

SCIENCE

Principles of Science and Biology are required classes taken during 9th and 10th grades. Per graduation requirements, students must earn three (3) credits of science. The courses offered in the science department involve inquiry-based laboratory experiments designed to bring relevance and meaning to course content. The science department also strives to incorporate STEM (Science, Technology, Engineering and Mathematics) into the courses offered.

Students planning to attend a college, university, or vocational-technical school to pursue a STEM-related field should take chemistry and physics to achieve four (4) credits of science. In addition, these students should consider scheduling other rigorous science electives such as AP courses and other department electives in order to craft an education based on a particular area(s) of interest.

Students pursuing non-STEM fields at a four-year college/university, should graduate CVHS with chemistry and/or physics. To prepare for the academic experience at a four-year college/university, the fourth CVHS science credit should come from one or more of the many rigorous science electives. For students not attending a post-high school institution, the department has a variety of electives to meet a wide range of student needs and interests at CVHS.

CVVA HONORS PRINCIPLES OF SCIENCE

Course No. 301501H

(Placement based on 8th grade performance data and successful completion of Algebra 1)**Credit: 1****Gr. 9**

This is an introduction to the physical sciences and scientific methodology. The objectives are to impart a basic knowledge of the physical properties and chemistry of matter. Skills are developed in the classroom and reinforced through reading and interesting labs that relate to everyday life. Honors students are expected to complete additional assignments throughout the course that build on the content provided. These assignments encourage students to go above and beyond the curriculum content in creativity and application. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 2 Weighting)**

CVVA COLLEGE PREP PRINCIPLES OF SCIENCE

Course No. CVVA301501

(Placement based on 8th grade performance data)**Credit: 1****Gr. 9**

This is an introduction to the physical sciences and scientific methodology. The objectives are to impart a basic knowledge of the physical properties and chemistry of matter. Skills are developed in the classroom and reinforced through reading and interesting labs that relate to everyday life. This course is designed for students interested in pursuing a college degree or other post-secondary studies.

(Level 1 Weighting)

CVVA PRINCIPLES OF SCIENCE

Course No. CVVA301601

(Placement based on 8th grade performance data)**Credit: 1****Gr. 9**

This is an introduction to the physical sciences and scientific methodology. The objectives are to impart a basic knowledge of the physical properties and chemistry of matter. Skills are developed in the classroom and reinforced through reading and interesting labs that relate to everyday life. This course is designed for students pursuing a career immediately after high school or a 2-year college degree in fields other than science. **(Level 1 Weighting)**

CVVA HONORS BIOLOGY

Course No. CVVA3021H

(Prerequisite: 80% in Honors Principles of Science, 90% in College Prep Principles of Science, or Teacher Recommendation)**Credit: 1****Gr. 9-10**

This advanced Biology course is a more challenging and comprehensive alternative to the College Prep Biology curriculum with the goal of preparing students for both proficiency on the Keystone Biology Exam and a smooth transition into Advanced Placement Biology and other advanced science courses. Topics covered include cells, classification of both vertebrates and invertebrates, population dynamics, ecology, genetics, and evolution. To graduate, students will be required to be proficient on the Biology Keystone Exam given as the final for the course. Students who select this course should be prepared to complete a significant amount of independent work both in and outside of the classroom. Honors science is a demanding course with high academic expectations. This course is designed for students interested in pursuing a four-year college degree in STEM-related fields. **(Level 2 Weighting)**

CVVA COLLEGE PREP BIOLOGY

Course No. CVVA3021

(Prerequisite: 75% in College Prep Principles of Science, 90% in Principles of Science, or Teacher Recommendation)**Credit: 1****Gr. 9-10**

This course introduces students to the scientific method and the major concepts of biology from a historical and practical viewpoint. The three major themes of this course are the cell, the molecular basis of heredity, and the interdependence of organisms. Students who take this class will have a deeper appreciation for the complexities of living organisms. Life on this planet, unlike anywhere else in the observable universe, is complex and highly organized. Whether examining life on the molecular or the planetary level, it exhibits a highly organized structure that inspires awe by its genius and complexity. In the last 50 years, discoveries have launched new branches of biology that have transformed the daily routine, from conception to death. New challenges await, such as the current crisis in ecology, global warming, and the resurgence in viral diseases. To make rational choices in the 21st century, citizens must have a basic understanding of biological concepts and the reasoning behind them. This biology course is presented in a multimedia format using interactive modules, labs, narrated animation, text, and videos to present the study of life on this planet. To graduate, students will be required to be proficient on the Biology Keystone Exam given as the final for the course. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 1 Weighting)**

CVVA BIOLOGY

Course No. CVVA302201

(Prerequisite: Successful completion of Principles of Science)**Credit: 1****Gr. 9-10**

This course introduces students to the scientific method and the major concepts of biology from a historical and practical viewpoint. The three major themes of this course are the cell, the molecular basis of heredity, and the interdependence of organisms. Students who take this class will have a deeper appreciation for the complexities of living organisms. Life on this planet, unlike anywhere else in the observable universe, is complex and highly organized. Whether examining life on the molecular or the planetary level, it exhibits a highly organized structure that inspires awe by its genius and complexity. In the last 50 years, discoveries have launched new branches of biology that have transformed the daily routine, from conception to death. New challenges await, such as the current crisis in ecology, global warming, and the resurgence in viral diseases. To make rational choices in the 21st century, citizens must have a basic understanding of biological concepts and the reasoning behind them. This biology course is presented in a multimedia format using interactive modules, labs, narrated animation, text, and videos to present the study of life on this planet. To graduate, students will be required to be proficient on the Biology Keystone Exam given as the final for the course. This course is designed for students pursuing a career immediately after high school or a 2-year college degree in fields other than science. **(Level 1 Weighting)**

SCIENCE ELECTIVES (ONE SEMESTER)

CVVA HONORS CHEMISTRY

Course No. 3031H

(Prerequisite: 80% in College Prep Algebra 1. 80% in Honors Biology, or 90% in College Prep Biology or Teacher Recommendation)

Credit: 1

Gr. 10-12

This course introduces students to the science of chemistry beginning with exploring why scientists are interested in studying matter at a submicroscopic level. Students will continue to learn how scientific methods are used to understand the natural world and will continue to develop their skills in this area. Honors Chemistry covers topics in the characteristics of matter, atomic structure, chemical periodicity, chemical bonds and compounds, chemical formula writing and naming, chemical reactions, and stoichiometry. An algebra background is recommended because of the amount and type of math involved. Honors students are expected to complete several assignments within each module that demonstrate their deeper knowledge of the applications of chemistry. This course is designed for students interested in pursuing a four-year college degree in STEM fields. **(Level 2 Weighting)**

CVVA COLLEGE PREP CHEMISTRY

Course No. CVVA3031

(Prerequisite: 75% in College Prep Algebra 1. 80% in College Prep Biology, 90% in Biology or Teacher Recommendation)

Credit: 1

Gr. 10-12

This course introduces students to the science of chemistry beginning with exploring why scientists are interested in studying matter at a submicroscopic level. Students will continue to learn how scientific methods are used to understand the natural world and will continue to develop their skills in this area. Chemistry covers topics in the characteristics of matter, atomic structure, chemical periodicity, chemical bonds and compounds, chemical formula writing and naming, chemical reactions, and stoichiometry. An algebra background is recommended because of the amount and type of math involved. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 1 Weighting)**

CVVA CHEMISTRY

Course No. CVVA3032

(Prerequisite: Successful completion of Biology)

Credit: 1

Gr. 10-12

This course introduces students to the science of chemistry beginning with exploring why scientists are interested in studying matter at a submicroscopic level. Students will continue to learn how scientific methods are used to understand the natural world and will continue to develop their skills in this area. Chemistry covers topics in the characteristics of matter, atomic structure, chemical periodicity, chemical bonds and compounds, chemical formula writing and naming, and chemical reactions. An algebra background is recommended because of the amount and type of math involved. This course is designed for students pursuing a career immediately after high school or a 2-year college degree in fields other than science. **(Level 1 Weighting)**

CVVA COLLEGE PREP PHYSICS

Course No. CVVA3431

(Prerequisite: 80% in College Prep Algebra 2 or Teacher Recommendation)

Credit: 1

Gr. 11-12

College Prep Physics is offered for those students wishing to gain the necessary scientific background preparation for education beyond high school. This course provides a logical presentation of concepts in classical mechanics: kinematics, forces and motion, energy and momentum. Algebra and graphical analysis are applied to these concepts to interpret and analyze the real world. Simulated and engineering based laboratory work is a key aspect of this course as all topics are introduced using a paradigm lab experience, student discourse, and critical thinking (not lecture). The course will cover the following topics: Kinematics, Forces, Newton's Laws, Work, Energy, Power, Circular Motion, and Momentum. Students will be asked to use household materials in order to engage with hands-on labs and basic engineering design challenges. This course is designed for students interested in pursuing a four-year college degree in a non-STEM-related field and earning vocational training. **(Level 1 Weighting)**

CVVA PHYSICS

Course No. CVVA3450

(Prerequisite: 75% in Algebra 2 or Teacher Recommendation)**Credit: 1****Gr. 11-12**

Physics is offered for those students wishing to gain a conceptual understanding of our mechanical world. Students begin their exploration of physics by reviewing the International System of Units (SI), scientific notation, and significant digits. Students then engage in a logical presentation of concepts in classical mechanics: kinematics, forces and motion, energy and momentum. Fundamental algebra and graphical analysis are applied to these concepts to interpret and analyze the real world. Simulated laboratory work, or video analysis of real world events, are an integrated aspect of this course as all topics include a paradigm lab experience, student discourse, and critical thinking (not lecture). The course will cover the following topics: Kinematics, Forces, Newton's Laws, Work, Energy, Power, Circular Motion, and Momentum. Students will be asked to use household materials in order to engage with hands-on labs and basic engineering design challenges. This course is designed for students interested in pursuing a four-year college degree in a non-STEM-related field and earning vocational training. **(Level 1 Weighting)**

CVVA SCIENCE ELECTIVES (ONE MARKING PERIOD)**CVVA ASTRONOMY**

Course No. CVVA3410

(Prerequisite: Successful completion of Principles of Science)**Credit: 0.5****Gr. 10-12**

This marking period course will focus on student interest in astronomical events. Questions explored in this course include: Ever wondered how the Earth developed and exists in the vastness of space? How do the scientific laws of motion and gravity play a role in its existence? Discover answers to these questions and explore the origin of the universe, the Milky Way, and other galaxies and stars, including the concepts of modern astronomy and the methods used by astronomers to learn more about the universe. Students have the opportunity to select a variety of topics and develop a series of presentations showcasing their learning (and interest) in astronomical topics.

(Level 1 Weighting)**CVVA ANATOMY & PHYSIOLOGY A**

Course No. CVVA3053005

(Prerequisite: 75% in College Prep Biology, 90% in Biology, or Teacher Recommendation)**Credit: 0.5****Gr. 11-12**

The aim of this course is to expand upon what was learned in biology class, while emphasizing the application of this material to human structures and functions. This course begins the study of human beings at the microscopic level and works its way up to an in-depth study of select organ systems. Special emphasis will be placed upon applying and demonstrating the information learned in this course through, not only tests and quizzes but through projects. This science course is designed for those students who may be pursuing careers in all science fields, nursing, physical therapy, occupational therapy, sports medicine, health & physical education teacher certification, or medicine may have a particular interest in this course of study. **(Level 1 Weighting)**

CVVA BIOTECHNOLOGY

Course No. CVVA3800005

(Prerequisite: 75% in College Prep Biology, 90% in Biology, or Teacher Recommendation)**Credit: 0.5****Gr. 10-12**

Biotechnology is a cutting-edge, high-demand field that encompasses everything from plant and animal breeding to genetics. Discover how biotechnology has changed the world around us, from food to genetics. Explore historical applications with modern discoveries. Understand how regulations and ethics govern the course of biotechnology and learn of its importance to the field of medicine.

(Level 1 Weighting)**CVVA CHEMISTRY IN THE KITCHEN**

Course No. CVVA3100005

Credit: 0.5**Gr. 10-12**

Become a better cook by understanding the principles behind cooking. This course allows students to learn the chemistry behind cooking ingredients and processes. The course is designed to experiment with cooking ingredients and techniques, not to follow recipes. This course also requires students to design simple cooking experiments, complete them at home, and report on their work. Students will be required to purchase ingredients for this course. **(Level 1 Weighting)**

CVVA ENVIRONMENTAL SCIENCE

Course No. CVVA3222005

Credit: 0.5**Gr. 10-12**

The earth's population is growing rapidly, and we need to find new, innovative ways to ensure that we are able to provide for our global energy needs. Special emphasis will focus on the concept of sustainability as a means of using resources in a way that ensures they will always be around us. Students will look at the reasons why sustainability is important, take a balanced and evidence-based look at climate change, and learn new ways that we can harness renewable resources. **(Level 1 Weighting)**

CVVA FORENSIC SCIENCE**Course No. CVVA3400005****Credit: 0.5****Gr. 10-12**

Our notions of forensics are often fictionalized, containing fantastic notions of what forensic science really is. In this course, you'll explore the truth behind the science from its history to its modern-day developments. You will learn how detectives conduct thorough investigations as well as common equipment and methods that are used throughout the field. Finally, you will learn about collecting and analyzing the most common types of evidence found at a crime scene and how they guide investigators to answers. Let's track your interests and continue your pursuit of justice through science! **(Level 1 Weighting)**

SOCIAL STUDIES

All students are required to successfully complete U. S. History 1, U. S. History 2, World History or World Cultures, and U. S. Government.

CVVA HONORS U.S. HISTORY 1**Course No. CVVA2011H****(Placement based on 8th grade performance data)****Credit: 1****Gr. 9**

This course covers the discovery, development, and growth of the United States. Major topics include American Indian cultures, European colonization of the Americas, and the causes and effects of the American Revolution. Geographical, economic, and political factors are explored as the key factors in the growth of the United States of America. American History reviews the struggle to build the United States of America from the colonial period to the beginning of the twentieth century. By means of reading, analyzing, and applying historical data, students come to appreciate the forces that shaped our history and character as an American people. Not only are the topics of US history discussed, but students also explore research methods and determine accurate sources of data from the past. Knowing the facts and dates of history are just the beginning: each student must understand how history affects him or her. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 2 Weighting)**

CVVA COLLEGE PREP U.S. HISTORY 1**Course No. CVVA2011****(Placement based on 8th grade performance data)****Credit: 1****Gr. 9**

This course covers the discovery, development, and growth of the United States. Major topics include American Indian cultures, European colonization of the Americas, and the causes and effects of the American Revolution. Geographical, economic, and political factors are explored as the key factors in the growth of the United States of America. American History reviews the struggle to build the United States of America from the colonial period to the beginning of the 20th century. By means of reading, analyzing, and applying historical data, students come to appreciate the forces that shaped our history and character as an American people. Not only are the topics of US history discussed, but students also explore research methods and determine accurate sources of data from the past. Knowing the facts and dates of history are just the beginning: each student must understand how history affects him or her. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 1 Weighting)**

CVVA U.S. HISTORY 1**Course No. CVVA2012****(Placement based on 8th grade performance data)****Credit: 1****Gr. 9**

This course covers the discovery, development, and growth of the United States. Major topics include American Indian cultures, European colonization of the Americas, and the causes and effects of the American Revolution. Geographical, economic, and political factors are explored as the key factors in the growth of the United States of America. American History reviews the struggle to build the United States of America from the colonial period to the beginning of the 20th century. By means of reading, analyzing, and applying historical data, students come to appreciate the forces that shaped our history and character as an American people. Not only are the topics of US history discussed, but students also explore research methods and determine accurate sources of data from the past. Knowing the facts and dates of history are just the beginning: each student must understand how history affects him or her. This course is designed for students pursuing a career immediately after high school or a 2-year college degree. **(Level 1 Weighting)**

CVVA HONORS U.S. HISTORY 2**Course No. CVVA2012H****(Prerequisite: 80% in Honors U.S. History 1, 90% in College Prep U.S. History 1, or Teacher Recommendation)****Credit: 1****Gr. 10**

This course begins with a study of American life before the 1929 Stock Market crash and how the Roaring Twenties influenced society in the late 19th through early 20th centuries. Students will examine the causes and consequences of the Great Depression and move on into a detailed study of World War II with an emphasis on America's role in the conflict. The course continues with an analysis of the Cold War struggle and America's rise as a superpower. The Civil Rights and Women's rights movements, pollution and the environment, and American domestic and foreign policy will be examined. This includes a summary of current events and issues, with a study of the Middle

East. Students look at the nation in terms of economic, social, and political trends. The development of the United States of America into a superpower is explored within a global context. Honors students are expected to complete additional assignments throughout the course that build on the content provided. These assignments, like a position essay, makes these students go above and beyond the curriculum content in creativity and application. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 2 Weighting)**

CVVA COLLEGE PREP U.S. HISTORY 2

Course No. CVVA2021

(Prerequisite: 75% in College Prep U.S. History 1, 90% in U.S. History 1, or Teacher Recommendation)

Credit: 1

Gr. 10

This course begins with a study of American life before the 1929 Stock Market Crash and how the Roaring Twenties influenced society in the late 19th through early 20th centuries. Students will examine the causes and consequences of the Great Depression and move on into a detailed study of World War II with an emphasis on America's role in the conflict. The course continues with an analysis of the Cold War struggle and America's rise as a superpower. The Civil Rights and Women's Rights Movements, pollution and the environment, and American domestic and foreign policy will be examined. The course includes a summary of current events and issues, with a study of the Middle East. Students look at the nation in terms of economic, social, and political trends. The development of the United States of America into a superpower is explored within a global context. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 1 Weighting)**

CVVA U.S. HISTORY 2

Course No. CVVA2022

Credit: 1

Gr. 10

This course begins with a study of American life before the 1929 Stock Market Crash and how the Roaring Twenties influenced society in the late 19th through early 20th centuries. Students will examine the causes and consequences of the Great Depression and move on into a detailed study of World War II with an emphasis on America's role in the conflict. The course continues with an analysis of the Cold War struggle and America's rise as a superpower. The Civil Rights and Women's Rights Movements, pollution and the environment, and American domestic and foreign policy will be examined. The course includes a summary of current events and issues, with a study of the Middle East. Students look at the nation in terms of economic, social, and political trends. The development of the United States of America into a superpower is explored within a global context. This course is designed for students pursuing a career immediately after high school or a 2-year college degree. **(Level 1 Weighting)**

CVVA HONORS WORLD HISTORY

Course No. CVVA2031H

(Prerequisite: 80% in Honors U.S. History 2, 90% in College Prep U.S. History 2, or Teacher Recommendation)

Credit: 1

Gr. 11

Honors World History begins with a focus on the skills needed to read, understand, and analyze history, also demonstrating how historians and social scientists arrive at their conclusions about human history. It covers the history of civilization from hunter-gatherer societies through the characteristics of the earliest civilizations to the Enlightenment period in Western Europe. Honors students are expected to complete additional assignments throughout the course that build on the content provided. These assignments, like reading and evaluating eyewitness accounts of historical events, makes these students go above and beyond the curriculum content in creativity and application. This course is designed for students interested in pursuing a college degree or other post-secondary studies.

(Level 2 Weighting)

CVVA COLLEGE PREP WORLD HISTORY

Course No. CVVA2031

(Prerequisite: 75% in College Prep U.S. History 2, 90% in U.S. History 2, or Teacher Recommendation)

Credit: 1

Gr. 11

This course begins with a focus on the skills needed to read, understand, and analyze history, also demonstrating how historians and social scientists arrive at their conclusions about human history. It covers the history of civilization from hunter-gatherer societies through the characteristics of the earliest civilizations to the Enlightenment period in Western Europe. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 1 Weighting)**

CVVA WORLD HISTORY

Course No. CVVA2032

Credit: 1

Gr. 11

This course begins with a focus on the skills needed to read, understand, and analyze history, also demonstrating how historians and social scientists arrive at their conclusions about human history. It covers the history of civilization from hunter-gatherer societies through the characteristics of the earliest civilizations to the Enlightenment period in Western Europe. This course is designed for students pursuing a career immediately after high school or a 2-year college degree. **(Level 1 Weighting)**

AP GOVERNMENT & POLITICS: U.S. (\$-AP Test Optional)**Course No. 2040APV****(Prerequisite: 80% in Honors World History, or 90% in College Prep World History, or Teacher Recommendation)****Credit: 1****Gr. 12**

The context of the course will include our Constitutional underpinnings, political beliefs and behaviors, political parties, interest groups, and the mass media; institutions of the national government, public policy; and civil rights and civil liberties. Students who elect this Advanced Placement course should have the ability to study at an accelerated pace and to study independently. Extensive reading, writing, and research are required. This course is designed for students interested in pursuing a college degree or other post-secondary studies. This course follows the blended format which requires students to attend campus classes 2-3 days each week.

(Level 3 Weighting)**CVVA COLLEGE PREP U.S. GOVERNMENT****Course No. CVVA2041****(Prerequisite: 75% in College Prep World History, 90% in World History, or Teacher Recommendation)****Credit: 1****Gr. 12**

This course will guide students through an in-depth study of the history, structure, and guiding principles of American government. The first unit will review the origins of government in general and American government in particular—from the earliest models for democracy to the founding documents that created a federalist system of government in the U.S. Several units will help students explore the roles and responsibilities of each branch of government as well as the impact that the Constitution has had and continues to have on the way government works and on the lives of individual Americans. The course's final unit will guide students through a series of projects. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 1 Weighting)**

CVVA U.S. GOVERNMENT**Course No. CVVA2042****Credit: 1****Gr. 12**

This course will guide students through an in-depth study of the history, structure, and guiding principles of American government. The first unit will review the origins of government in general and American government in particular—from the earliest models for democracy to the founding documents that created a federalist system of government in the U.S. Several units will help students explore the roles and responsibilities of each branch of government as well as the impact that the Constitution has had and continues to have on the way government works and on the lives of individual Americans. The course's final unit will guide students through a series of projects that require them to apply what they have learned about American government to an issue that interests them. This course is designed for students pursuing a career immediately after high school or a 2-year college degree. **(Level 1 Weighting)**

CVVA SOCIAL STUDIES ELECTIVES

The following courses are social studies electives. These courses do not fulfill the four (4) credits of social studies classes required for graduation: U.S. History 1 & 2, World History, and U.S. Government. These courses are counted as elective credits required for graduation.

CVVA AFRICAN AMERICAN STUDIES**Course No. CVVA2233005****Credit: 0.5****Gr. 11-12**

By examining the stories of brave men and women who persevered, built community and contributed to our nation's goals—sometimes amid great persecution—we can all learn how to pave a brighter future. Learn about the incredible history of Black people who have left a mark on the fabric of the United States to the ways the country has wrestled with its past to understand slavery, emancipation, and the fight for civil rights in our nation. **(Level 1 Weighting)**

CVVA HISTORY OF THE HOLOCAUST**Course No. CVVA225****Credit: 0.5****Gr. 9-12**

Holocaust education requires a comprehensive study of not only times, dates, and places, but also the motivation and ideology that allowed these events. In this course, students will study the history of anti-Semitism; the rise of the Nazi party; and the Holocaust, from its beginnings through liberation and the aftermath of the tragedy. The study of the Holocaust is a multi-disciplinary one, integrating world history, geography, American history, and civics. Through this in-depth, semester-long study of the Holocaust, high school students will gain an understanding of the ramifications of prejudice and indifference, the potential for government-supported terror, and they will get glimpses of kindness and humanity in the worst of times. **(Level 1 Weighting)**

CVVA PSYCHOLOGY**Course No. CVVA2442****Credit: 0.5****Gr. 11-12**

In this course, the student begins with a brief history of psychologists and their experimental methods. Next they examine personality theories. Then human development from the infant stage through the adult stage is explored. Finally, the last part of the course is about consciousness: sleep, dreams, and conscious-altering substances. Students are encouraged to increase their own self-awareness as they move through the course. This course is designed for students interested in pursuing a college degree or other post-secondary studies.

(Level 1 Weighting)**CVVA SOCIOLOGY****Course No. CVVA2332005****Credit: 0.5****Gr. 11-12**

This course examines the basics of sociology, which is the study of society including individuals, human groups, and organizations. The course is divided into four main areas: the sociological perspective, social structures, inequality in society, and social institutions and change. Students will examine controversies around social change, inequality, gender, and race. The course revolves around an overview of the field with projects that offer the student a chance to explore from a sociologist's perspective. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 1 Weighting)**

CVVA WORLD MYTHOLOGY AND FOLKLORE**Course No. CVVA2231005****Credit: 0.5****Gr. 9-12**

Since the beginning of time, people have gathered around fires to tell stories of angry gods, harrowing journeys, cunning animals, horrible beasts, and the mighty heroes who vanquished them. Mythology and folklore have provided a way for these colorful stories to spring to life for thousands of years and helped humans make sense of the world. Explore how these compelling tales continue to shape society even today. This course has no prerequisites and is open to all grades at the high school. **(Level 1 Weighting)**

CVVA ART ELECTIVES

Students must take at least one (1) course in art (0.5 credit) to meet graduation requirements.

CVVA ART & ACTION**Course No. CVVA8720005****Credit: 0.5****Gr. 9-12**

This course, Art & Action explores the idea of visual perception and helps you to become an intelligent observer and identify the role of the artist. It combines art history with the exploration of ideas and processes. There will be opportunities for growth in aesthetics, appreciation, personal expression as well as art making. You may be required to purchase and/or provide materials for projects. Students may choose from a variety of supplies to use, items such as a pencil, colored pencils, paper, scissors, glue, and markers to complete your project work. Drawing apps on the iPad such as Sketchbook or Fresco may be used for projects. This course will satisfy the art graduation requirement. **(Level 1 Weighting)**

CVVA ART FROM THE GROUND UP**Course No. CVVA8820005****Credit: 0.5****Gr. 9-12**

This Art History course, Art from the Ground Up, integrates the four components of art study: art production, historical and cultural context, critical process, and aesthetic process. Students will be able to identify and describe art from prehistoric times to modern time. Throughout this course, students will discuss various artworks, research artists, and create documents and presentations demonstrating concepts learned. This course will satisfy the art graduation requirement. Students may be required to purchase and/or provide materials for projects. Drawing apps on the iPad, such as Sketchbook or Fresco may be used for projects. **(Level 1 Weighting)**

CVVA DRAWING 1**Course No. CVVA8501005****Credit: 0.5****Gr. 9-12**

In this course, Drawing 1 students will experiment with different art materials, tools and techniques to create drawings. Students will explore ordinary things around them to become more observant of the structures and meanings of things which can be seen in their home and community. Student completed artwork will reflect the study of the form, texture, movement, and pattern of things seen in everyday life. By becoming more observant, experimenting with new materials, and exploring a variety of methods, students will continue to grow in artistic skill and enjoyment. Beyond the building of fundamental skills, you will grow creatively. Each lesson provides room for expressing the technical skill learned in a unique way. Students will be provided with an art kit containing most supplies needed for the course. Students may be required to purchase and/or provide materials not contained in the kit. Art Kits will be returned at the completion of the course. This course will satisfy the art graduation requirement. **(Level 1 Weighting)**

CVVA PAINTING 1**Course No: CVVA8502005****Credit: 0.5****Gr. 9-12**

The course, Painting I, provides an introduction to techniques, composition, and color theory. Students will learn to use basic painting materials. Students will be exposed to major painting styles and movements from art history. Students work primarily in tempera and watercolor. History, aesthetics, and criticism are integrated with studio processes. Students will be provided with an art kit containing most supplies needed for the course. Students may be required to purchase and/or provide materials not contained in the kit. Art Kits will be returned at the completion of the course. This course will satisfy the art graduation requirement. **(Level 1 Weighting)**

BUSINESS EDUCATION REQUIRED COURSES

CVVA CAREER EDUCATION**Course No. CVVA6112****Credit: 0.5****Gr. 9**

This course is required for all 9th grade students. Students' career journeys and career plans will be developed during this required class with the use of Xello and other research tools. Students will explore their planned success goals and connect with careers that match their interests, personalities, learning styles, work/life balance, and entrepreneurial skills. You will explore career clusters, learn about the skills needed to work in different industries, and choose a path to pursue. You'll build a plan to get you from high school to your first day on the job, and craft a strong portfolio to land your perfect job. You've dreamed about your future career. Now it's time to create a plan and turn that dream into a goal! **(Level 1 Weighting)**

CVVA CONSUMER SKILLS**Course No. CVVA6207****Credit: 0.5****Gr. 12**

This course is designed to equip students with essential financial skills and knowledge. It covers fundamental money principles, including budgeting, managing a checkbook, and organizing financial paperwork. Students will learn effective strategies for handling credit and debt, becoming wise consumers, and understanding the impact of money on relationships and lifestyle choices. The course also explores financial considerations for major life events such as school, marriage, homeownership, and raising children. Additionally, it emphasizes the importance of planning ahead for retirement. By the end of the course, students will be prepared to make informed financial decisions and manage their money responsibly. This course is required for all 12th grade students. **(Level 1 Weighting)**

CVVA DIGITAL LITERACY 4 TODAY**Course No. CVVA6115****Credit: 0.5****Gr. 10**

We use technology to communicate with friends and family, find never-ending entertainment options and do our schoolwork. Discover what it means to be a responsible digital citizen, expand your digital literacy, and become a successful online student. Consider the best ways to find, create, and share information, learn to maximize information and communication technologies, and explore digital content creation, from emails and blogs to social media, videos, and podcasts. This course is required for all 10th grade students.

(Level 1 Weighting)

ELECTIVE COURSES

CVVA INTRODUCTION TO BUSINESS**Course No. CVVA6222****Credit: 0.5****Gr. 9-12**

What image comes to mind when you hear the word business? Some people think of their jobs, others think of the merchants they patronize as consumers, and still others think of profit. Business drives the economic pulse of a nation. Whether you decide to start your own business, work for a small, family-run business, or sign on with a large international corporation, your achievements will depend on your ability to maintain the constant pace of change in today's world. This course introduces students to the basic business concepts that will help them understand how a business survives in today's economy and the role that consumers play in the same economy. Students will learn how to balance a checkbook, save for the future, and use credit wisely. **(Level 1 Weighting)**

CVVA SOCIAL MEDIA BUSINESS MARKETING**Course No. CVVA6160****Credit: 0.5****Gr. 9-12**

Whether it's posting pictures, videos, or interacting in the metaverse, today's students who aspire to apply their social media skills to business marketing must be prepared. This course on Social Media Business Marketing provides students with the foundational knowledge of social media technology and marketing principles. The course begins with an introduction to social media platforms and then goes in depth into the marketing and advertising strategies used to support a company's social media strategy and campaigns. Through activities and projects, students gain firsthand knowledge of this exciting field. This course is especially valuable for students interested in the following career clusters: Arts, A/V Technology & Communications; Hospitality & Tourism; Marketing. **(Level 1 Weighting)**

COMPUTER SCIENCE

CVVA COMPUTER SCIENCE PRINCIPLES 1

Course No. CVVA412201

(Prerequisite: Successful completion of Algebra 1)

Credit: 1

Gr. 9-12

This course provides a broad and rigorous introduction to computer science, including problem-solving, working with data, understanding the Internet, cybersecurity, and programming. This course uses the CompuScholar Computer Science Foundations curriculum as the primary resource. It covers all required topics in the “Computer Science Principles” course description published by the College Board. The Python language is taught as the basis for programming topics. Students need to have typical computer usage skills prior to starting this course. Other introductory programming courses are not required. All required concepts are taught from the ground up in a fun, step-by-step manner. The course includes using a variety of multimedia content such as full-color, interactive text, narrated instructional videos, and guided exercises. Strong emphasis is placed on hands-on programming labs to demonstrate mastery of lesson concepts.

This course is a prerequisite for AP Computer Science Principles. (Level 1 Weighting)

CVVA AP COMPUTER SCIENCE PRINCIPLES (\$-AP Test Optional)

Course No. CVVA4210AP

(Prerequisite: Successful completion of Computer Science Principles 1)

Credit: 1

Gr. 9-12

This AP Computer Science Principles (CSP) class covers all required topics in the “Computer Science Principles” course description published by the College Board as it prepares students to create their Create Performance Task and complete the sit-down AP Exam. In addition to course material that expands upon the concepts learned in Computer Science Principles 1, students will need to spend a minimum of 12 hours creating their Create Performance Task for the AP Exam, then spend time studying for the sit-down AP Exam.

(Level 3 Weighting)

CVVA CYBERSECURITY

Course No. CVVA6180

Credit: 0.5

Gr. 9-12

In this online Cybersecurity course, students learn about the practice of protecting networks, systems, and programs from digital attacks while better understanding the aim of these attacks, such as destroying information, extorting money and resources, or disrupting business operations. Students learn about the challenges and opportunities that implementing cybersecurity measures can present. As attackers become more innovative, it is more important than ever to have effective cybersecurity channels in place to counter them. Countermeasures and role recovery and their integral function in the cybersecurity realm will be addressed. Additionally, students learn what makes certain networks and systems more vulnerable to attacks and become adept at identifying potential viruses, worms, threats, and malware. This Cybersecurity course acts as a foundation on which to build extensive knowledge about threats to digital security. This course is especially valuable for students interested in the following career clusters: Government & Public Administration; Information Technology; Law, Public Safety, Corrections & Security. **(Level 1 Weighting)**

CVVA CYBERSECURITY 2

(Prerequisite: Successful completion of Cybersecurity)

Credit: 0.5

Gr. 9-12

The Cybersecurity 2 course provides a comprehensive overview of key concepts and practices in cybersecurity. Students learn to identify and mitigate common threats and vulnerabilities, including malware, ransomware, and social engineering attacks. The course covers critical access management, encryption methods, and network security, with a focus on securing wireless networks, implementing firewalls, and VPN technologies. Participants also explore endpoint security, vulnerability management, risk assessment, and the principles of disaster recovery and business continuity planning. Additionally, students gain practical skills in incident handling, digital forensics, and monitoring security events, ensuring they are prepared to respond to cybersecurity incidents and comply with regulatory frameworks. **(Level 1 Weighting)**

FAMILY AND CONSUMER SCIENCES

REQUIRED COURSE

CVVA PERSONAL FAMILY DEVELOPMENT

Course No. CVVA7210

Credit: 0.5

Gr. 12

This senior level graduation required course will explore the critical role of parenting. The process of parenting is more than just having a child caring for his/her basic needs. Learn what to prepare for, what to expect, and what vital steps a parent can take to create the best environment and life for their child. Parenting roles and responsibilities; nurturing and protective environments for children; positive parenting strategies and effective communication in parent/child relationships are some of the topics covered in this course. This course is required for all 12th grade students. **(Level 1 Weighting)**

ELECTIVE COURSES

CVVA BASIC CULINARY ARTS

Course No. CVVA7201005

Credit: 0.5

Gr. 9-12

Thinking of a career in the food service industry or looking to develop your culinary skills? Explore lessons in nutrition, knife skills, equipment, and preparation techniques while preparing you for entry into the culinary world. Discover the history of food culture, food service, and global cuisines while learning about food science principles, planning meals, and making healthy food choices. Prepare for your future by building the professional, communication, leadership, and teamwork skills that are crucial to a career in the culinary arts. **(Level 1 Weighting)**

CVVA CHILD DEVELOPMENT

Course No. CVVA7601

Credit: 0.5

Gr. 10-12

This course is an integrated study of physical, intellectual, social, emotional and moral development, and behavior from birth through early childhood. Students who work as a babysitter, a camp counselor, or at a daycare would benefit from the material presented. Emphasis will be placed on guiding children at each level of development. Upon completion of this course students can elect Child Development 2, potentially offered in person in the next school year, which includes a potential internship working with children. **(Level 1 Weighting)**

CVVA PASTRY ARTS

Course No. CVVA7202005

Credit: 0.5

Gr. 9-12

Did you know that baking is considered a science? Discover how to elevate your culinary skills through the creation of stocks, soups, sauces, and learn baking techniques. Examine sustainable food practices and the benefits of nutrition while maintaining taste, plating, and presentation to truly wow your guests! Students will be required to purchase ingredients for this course. **(Level 1 Weighting)**

CVVA MUSIC

CVHS requires at least one (1) music course (0.5 credit) to be taken as a condition for graduation. Students may fulfill their music requirements by selecting any music course or an ensemble.

CVVA AUDIO PRODUCTION 1

Course No. CVVA8207005

Credit: 0.5

Gr. 9-12

Audio Production is a project-based class in which students will learn to compose music, sequence tracks, create loops, and design drum patterns using music industry-standard hardware and software. Students will use the GarageBand application with an iPad or MacBook. The units of study and all resources will be housed in Schoology. This course will satisfy the music graduation requirement.

(Level 1 Weighting)

CVVA INTRODUCTION TO MUSIC

Course No. CVVA8012

Credit: 0.5

Gr. 9-12

Students will gain a thorough understanding of music by studying the elements of music, musical instruments, and music history. Students will be introduced to the orchestra and to composers from the past. Students will be assessed by completing quizzes, tests, projects, and discussion posts. **(Level 1 Weighting)**

CVVA HEALTH & PHYSICAL EDUCATION

Students must take a 0.5 credit PE class each year for four years. In addition, students must successfully complete their Current Health Issues course in 11th grade. Students may also take additional Health and Physical Education classes as electives.

REQUIRED COURSES

CVVA CURRENT HEALTH ISSUES

Course No. CVVA9122

Credit: 0.5

Gr. 11

Current Health Issues is designed to take students through a study of a variety of health topics that impact their lives on a daily basis in order to help them better comprehend concepts related to health promotion and disease prevention. Students will develop health skills that will include accessing information, self-management, analyzing influences, interpersonal communication, decision-making, goal setting, and advocacy. Through this course, students will improve health literacy and create a lifestyle that is based on good choices and healthy behaviors. This course is required for all 11th grade students. **(Level 1 Weighting)**

CVVA PE 9

Course No. CVVA9011

Credit: 0.5

Gr. 9

PE 9 is designed to teach students the skills, knowledge, and habits necessary to build a foundation for an active and healthy lifestyle. Through participation in units that explore basic fitness concepts and weekly cardiovascular workouts, students will be given the tools they need to pursue fitness for life. Students will explore the health and skill related components of fitness and their roles in one's overall fitness level. They will develop an understanding of the FITT principles and how those principals contribute to one's overall fitness. Students will complete 20 cardiovascular workouts while maintaining activity within their individual target heart rate zones. Using provided heart rate monitors, students will learn to track, record, and analyze their performance data through current fitness technology. This hands-on experience helps students build endurance, understand heart rate training principles, and develop lifelong fitness habits. This course will satisfy the 9th grade PE requirement. **(Level 1 Weighting)**

CVVA PE 10

Course No. CVVA9021

(Prerequisite: Successful completion of PE 9)

Credit: 0.5

Gr. 10

PE 10 is a course that explores one's overall fitness and dietary habits as well as proper weight training information while establishing habits necessary to pursue an active and healthy lifestyle. Through participation in units that explore the application of fitness in one's life, weight training skills and safety, and nutrition essentials for physical fitness students will be given essential skills and knowledge for the pursuit of fitness for life. Students will also complete 20 cardiovascular workouts while maintaining activity within their individual target heart rate zones. Using provided heart rate monitors, students will track, record, and analyze their performance data through current fitness technology. This hands-on experience helps students build endurance, understand heart rate training principles, and develop lifelong fitness habits. This course will satisfy the 10th grade PE requirement. **(Level 1 Weighting)**

CVVA PE 11

Course No. CVVA9031

(Prerequisite: Successful completion of PE 10)

Credit: 0.5

Gr. 11

PE 11 is a course that will introduce the concepts of exercise and its benefits. Topics range from how exercise impacts well-being and physical health, to learning the body systems that play a major role in a person's ability to participate in that exercise. As students progress, they will encounter critical thinking questions that help them apply new knowledge to their own lives. Students will also complete 20 cardiovascular workouts while maintaining activity within their individual target heart rate zones. Using provided heart rate monitors, students will track, record, and analyze their performance data through current fitness technology. This hands-on experience helps students build endurance, understand heart rate training principles, and develop lifelong fitness habits. This course will satisfy the 11th grade PE requirement. **(Level 1 Weighting)**

CVVA PE12

Course No. CVVA9041

(Prerequisite: Successful completion of PE 11)

Credit: 0.5

Gr. 12

PE 12 is a course that emphasizes the value of lifetime activities and creates a clear explanation of the rules and basic principles of a variety of activities. The activities covered in this course are archery, bicycling, golf, and tennis. Information about the playing area and equipment, basic rules, safety considerations, and terminology for each activity are included in the discussions. Students will also complete 20 cardiovascular workouts while maintaining activity within their individual target heart rate zones. Using provided heart rate monitors, students will track, record, and analyze their performance data through current fitness technology. This hands-on experience helps students build endurance, understand heart rate training principles, and develop lifelong fitness habits. This course will satisfy the 12th grade PE requirement. **(Level 1 Weighting)**

ELECTIVE COURSES

CVVA FIRST AID AND SAFETY

Course No. CVVA9140

Credit: 0.5

Gr. 10-12

In this course, students learn and practice first aid procedures for a variety of common conditions, including muscular, skeletal, and soft tissue injuries. In addition, students learn how to appropriately respond to a variety of emergency situations. They also learn the procedures for choking and CPR for infants, children, and adults. In addition to emergency response, students will explore personal, household, and outdoor safety and disaster preparedness. **(Level 1 Weighting)**

CVVA MENTAL HEALTH AND WELLBEING

Course No. CVVA9160

Credit: 0.5

Gr. 9-12

Students begin by exploring the different dimensions of healthy intra-and interpersonal relationships. They examine stress and the importance of learning to manage it. Students are introduced to the concept of neurodiversity and some of the characteristics of neurodiverse people. A discussion of mental health, mental illness, and suicide prevention follows. Finally, they will explore the short-and long-term effects of violence on health and look at ways to prevent or reduce violence. **(Level 1 Weighting)**

CVVA NUTRITION AND WELLNESS

Course No. CVVA7204005

Credit: 0.5

Gr. 10-12

This course takes students through a comprehensive study of nutritional principles and guidelines. Students will learn about world-wide views of nutrition, nutrient requirements, physiological processes, food labeling, healthy weight management, diet related diseases, food handling, nutrition for different populations, and more. Students will gain important knowledge and skills to aid them in attaining and maintaining a healthy and nutritious lifestyle. **(Level 1 Weighting)**

TECHNOLOGY EDUCATION

Conestoga Valley High School requires at least 0.5 credits in technology education to be taken as a condition for graduation.

Any of the following courses satisfy the Technology Education graduation requirement.

CVVA AVIATION TECHNOLOGY

Course No. CVVA 7901005

Credit: 0.5

Gr. 9-12

This course prepares students to take the Federal Aviation Administration's Part A Exam, which is a key step to becoming a commercial drone pilot. The field of unmanned aerial vehicles is growing rapidly, as the opportunities to use them for search and rescue, photography, recreation, inspection, and many others continue to multiply. Students will learn the critical facts to prepare for the test's topics, which include regulations, airspace and requirements, weather, loading and performance, and operations. The course will conclude with a look at the most promising careers in the field of drones. This course will satisfy the Technology Education graduation requirement.

(Level 1 Weighting)

CVVA CAD 1 (Computer-Aided Design)

Course No. CVVA7801

Credit: 0.5

Gr. 9-12

In this course, students will review various concepts used in the design and architecture field. They will learn about basic drafting equipment and how to use it.. They will analyze challenges and solutions within the development of design. They will also learn how to prepare drawings manually and using AutoCAD software. A substantial portion of the course will be spent on sequential processes so that students develop an understanding of creating and drawings as well as how to apply standard rules regarding line types and offset objects. This course will satisfy the technology education graduation requirement. **(Level 1 Weighting)**

CVVA DIGITAL MEDIA

Course No. CVVA7915005

Credit: 0.5

Gr. 9-12

This course will focus on the skills and concepts commonly used in photography and design. Discover your talent for building digital media applications using text, graphics, animations, sounds, videos, and more! Learn about the elements that make impressive media, such as typography, color theory, design, and manipulation. Explore careers to apply your digital media skills and find your place in this fast-paced and exciting field! This course will satisfy the technology education graduation requirement. **(Level 1 Weighting)**

CVVA INTRODUCTION TO ENGINEERING DESIGN

Course No. CVVA7041005

Credit: 0.5

Gr. 9-12

This course is appropriate for 9th or 10th grade students who are interested in design and engineering. The major focus of this course is to expose students to the design process, research and analysis, communication methods, global and human impacts,

engineering standards, and technical documentation. This course is activity-, project-, and problem-based learning at its best. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges that increase in difficulty throughout the course. This course will satisfy the technology education graduation requirement. **(Level 1 Weighting)**

WORLD LANGUAGES

Some colleges and universities require multiple years of coursework in a world language. Other colleges and universities may not have this requirement. Students may study more than one World Language.

GERMAN COURSES

CVVA GERMAN 1

Credit: 1

Gr. 9-12

In this course, students will work to develop language skills for basic communication. They will learn how to exchange names and greetings, describe people based on physical and personality traits, and talk about family members and aspects of their social life. Throughout the course, students will start with basic sentence structures and grammatical tools, enabling them to communicate in German through listening, speaking, reading, and writing. They will also internalize new vocabulary and grammar. In addition, students will have the opportunity to learn about different regions of the German-speaking world visited by the central characters in each unit. This will provide them with cultural insights and context related to the language they are learning. **(Level 1 Weighting)**

CVVA GERMAN 2

(Prerequisite: 75% in German 1)

Credit: 1

Gr. 9-12

In this course, students build on grammar and language skills that they acquired during their German 1 course. While reviewing basic grammar skills in present and past tense, students learn and study stem-changing verb conjugation and explore cultural themes regarding current events, famous German people, music, and famous festivals. **(Level 1 Weighting)**

SPANISH COURSES

CVVA SPANISH 1

Course No. CVVA5011

Credit: 1

Gr. 9-12

This course is designed to develop an authentic and practical understanding of the Spanish language and culture. Students will have the ability to express their thoughts, feelings, and opinions in the target language within basic, real-life situations and learning scenarios. All new concepts, grammatical concepts, and cultural information will be introduced in context while incorporating various listening, speaking, and writing activities. **(Level 1 Weighting)**

CVVA SPANISH 2

Course No. CVVA5021

(Prerequisite: 75% in Spanish 1)

Credit: 1

Gr. 9-12

Students build upon the foundation developed in Spanish 1. They continue to build vocabulary, learn new verb tenses and other grammar concepts, and they increase their ability to communicate with others. They learn new concepts, like reflexive verbs, infinitive expressions, commands, and the imperfect tense. They continue building on vocabulary, grammar concepts, and communicating effectively in the target language. Students will explore new countries where Spanish is spoken and continue to keep abreast of current events in the Spanish-speaking world. Students will be expected to communicate in Spanish. **(Level 1 Weighting)**

CVVA SPANISH 3

Course No. CVVA5031

(Prerequisite: 75% in Spanish 2)

Credit: 1

Gr. 10-12

The third level of a language is designed so that students continue to develop proficiency in all four skill areas of the language. Students will continue to increase their vocabulary and practice grammatical structures. Students continue to develop their ability in reading, writing, speaking, and understanding Spanish through a systematic review of its structure. Students focus on applying vocabulary in a wider array of situations by learning about the past progressive and subjunctive moods and the present perfect, future, and conditional tenses. Students will be expected to communicate in Spanish. **(Level 1 Weighting)**