

CONESTOGA VALLEY HIGH SCHOOL



COURSE CATALOG

2021 - 2022

See the *Course Sequence* and *Course Selection Guide* under the “Academic Planning” Quick Link on the high school webpage under “Counseling” for help with course selection/scheduling.

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EMAIL CONTACT INFORMATION

To email counselors or administration, go to www.conestogavalley.org > Choose Your School > Conestoga Valley High School > Quick Links > CV Staff Directory.

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Graduation Requirements

To be eligible for graduation from Conestoga Valley High School, a student must pass the required number of credits and courses and demonstrate proficiency on the **Literature**, **Biology** and **Algebra I Keystone Exams**. Credit requirements are detailed below.

Course and Credit Requirements

<u>COURSE</u>	<u>CREDITS</u>
English	4.0*
Social Studies	4.0*
Math (Algebra 1, Geometry, and Algebra 2 are required)	3.0
Science (Principles of Science and Biology are required)	3.0
Physical Education	2.0*
Digital Literacy 4 Today (10th-grade year)	0.5
Career Education (9th-grade year)	0.5
Current Health Issues	0.5
Consumer Skills	0.5
Personal and Family Development	0.5
Art (Foundation of Design or other introductory art courses)	0.5
Music (Introduction to Music or any other music course or ensemble)	0.5
Technology Education (Any level 1 class)	0.5
Electives (e.g., areas of specialization, career and personal interest areas, world languages, etc.)	8.0

* Course requirements may be modified to accommodate students' IEPs and those students enrolled in CTC programs. Full-day CTC students receive 10 credits upon successful completion of the senior year.

Total Credits Required for Graduation **28.0**

NEW FOR 2020-2021 SCHOOL YEAR

The school board has approved changes to the class rank formula for Conestoga Valley High School for the incoming **Class of 2023 and beyond** to a purely weighted system and eliminate the total credits multiplier of our current formula. Weight will be added to GPA point values by multiplying a consistent percentage to Level II and Level III courses. Those values will then be added up and divided by the total number of credits completed. The following table details the change:

Grade	Achievement Range	Level 1 General and Traditional Courses	Level 2 Honors courses (Multiply by 12.50%)	Level 3 AP Courses, College in the High School (CHS) Courses & Dual Enrollment Courses (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

The new proposed class rank formula starting with the Class of 2023 is as follows:

$$\text{Total GPA Point Values} / \text{Number of Credits Taken} = \text{Weighted GPA Course Average}$$

ENGLISH

IMPORTANT NOTES: All students are recommended to take at least one credit of core English each year at CVHS. Students will be scheduled to take English 1 in 9th grade and English 2 in 10th grade. In both the 11th and 12th grade years, students must choose at least one (1) credit of a core English course that meets the department requirements. Please note that all required core courses have required research papers. Students wishing to pursue additional credits should work with their guidance counselor to ensure the sequencing is appropriate. Students may also take additional English core classes beyond the required four and count them as electives. In addition to required grade level English courses, full semester and one-half semester electives are also available. These electives do not count toward the graduation requirements but may be counted as elective credits required for graduation.

HONORS ENGLISH 1

Course No: 1011H

Credit: 1

Gr. 9

This rigorous course prepares 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. 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 styles of writings including those that are research-based. 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 of the classroom. Students are required to read select texts prior to 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. **(Level 2 Weighting)**

TRADITIONAL ENGLISH 1



Course No: 1011

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. *Student interested in taking the blended version of the class should enter a special request on the course selection worksheet.* **(Level 1 Weighting)**

GENERAL ENGLISH 1

Course No: 1012

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 pieces of writing, 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

Credit: 1

Gr. 10

This rigorous course expands upon the content presented in the 9th grade honors or traditional academic course. 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 in preparation for writing numerous analytical essays. Students will also be required to follow themes in literature across multiple texts. Vocabulary is SAT-prep in nature and 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 of the classroom. Students are required to read select texts prior to 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. **(Level 2 Weighting)**



Blended Course – combination of traditional face-to-face instruction and web-based online learning.



Credit: 1

Gr. 10

This course expands upon the content presented in Traditional 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 is SAT-prep in nature and 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. *Student interested in taking the blended version of the class should enter a special request on the course selection worksheet.* (Level 1 Weighting)

GENERAL ENGLISH 2 (Supported)

Course No: 1022S

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. In addition, students will have numerous formal writing experiences. Vocabulary instruction focuses on roots, prefixes, and suffixes. (Level 1 Weighting)

Please Note: Students may choose from the following English courses for their third or fourth credits of English. Graduation Requirement: Students must take all four-grade level (non-elective) English classes (four total credits).

HONORS AMERICAN LITERATURE

Course No: 1029.1H

(Prerequisite: Advanced Composition)

Credit: 1

Gr. 11-12

This rigorous study of American literature expands upon the content presented in the 10th grade honors or a traditional 10th grade academic course. Students will analyze the techniques an author uses to create fiction and nonfiction texts through literary analysis of American literature and related works. 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 in preparation for writing numerous analytical essays and tests. Students will also be required to follow themes in literature across multiple texts. Vocabulary is SAT-prep in nature and 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 of the classroom. Students are required to read select texts prior to 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. 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. (Level 1 Weighting)

TRADITIONAL AMERICAN LITERATURE

Course No: 1029.1

Credit: 1

Gr. 11-12

This course expands upon the content presented in the 9th and 10th grade traditional English courses. The course provides a survey of American literature, and the students will utilize the writing and research processes to compose expository and persuasive writings. Students will analyze the techniques an author uses to create fiction and nonfiction texts through literary analysis. Vocabulary instruction will center on roots, prefixes, suffixes and context clues. This course is designed for students interested in pursuing a college degree or other post-secondary studies. 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. *Student interested in taking the blended version of the class should enter a special request on the course selection worksheet.* (Level 1 Weighting)

TRADITIONAL BRITISH ENGLISH AND WORLD LITERATURE

Course No: 1039.1

Credit: 1

Gr. 11-12

This course analyzes the techniques an author uses to create fiction and nonfiction texts through literary analysis of British, World, and contemporary literature. Vocabulary instruction will center on roots, prefixes, suffixes and context clues. Students will utilize the writing and research processes to compose 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. *Student interested in taking the blended version of the class should enter a special request on the course selection worksheet.* (Level 1 Weighting)



Blended Course – combination of traditional face-to-face instruction and web-based online learning.

TRADITIONAL DRAMA STUDIES AND PRODUCTION- ENGLISH**Course No: 1046.1****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 will 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 producing of an original, devised play to be performed before an audience. Successful completion of Intro. to Theater and/or previous theater experience is recommended. **(Level 1 Weighting)**

TRADITIONAL HUMANITIES - ENGLISH**Course No: 1440****Credit: 1****Gr. 11-12**

This course presents a thematic approach to the study of works of art, literature, and music. Students will explore historic and contemporary works created by people of diverse backgrounds and interests. Students are expected to respond to course works critically and creatively as well. 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)**

TRADITIONAL JOURNALISM**Course No: 1220****Credit: 1****Gr. 11-12**

This course will focus on the study of print journalism. Journalistic techniques will be analyzed and employed, including those associated with 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 of articles for local newspapers, district communications, and *The Valley Voice*. **(Level 1 Weighting)**

TRADITIONAL MEDIA IN THE 21ST CENTURY-ENGLISH**Course No. 1047.1****Credit: 1****Gr. 11-12**

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

TRADITIONAL SCIENCE FICTION STUDIES**Course No: 1131.1****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 have an understanding of the genre, be able to engage critically and creatively with Science Fiction texts, and to 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)**

GENERAL AMERICAN LITERATURE FOR LIFE AND WORK (Supported)**Course No: 1030.1S****Credit: 1****Gr. 11-12**

This course emphasizes the study of American literature through themes for life and work, reading and analyzing literature, and vocabulary study. 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 will center 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)**

DUAL E-ENGLISH 101 COLLEGE IN THE HIGH SCHOOL**Course No: D1CV101****(Prerequisite: Advanced Composition and students must pass a placement test)****Credit: 1****Gr. 11-12**

Students are enrolled as HACC students and take the CHS course at a reduced tuition rate. Students must take a placement test in the spring at Conestoga Valley High School. Upon successful completion of course requirements, students will earn **three college credits** through HACC that may be transferred to most Pennsylvania colleges/universities and some out-of-state schools as well as one CV English credit. This reading-and-writing-intensive course focuses heavily on developing composition skills and responding in larger and smaller essays to American literature from 1865 to the present. In addition, students will gain valuable interpretive, analytical, and evaluative reading skills while interacting with great works of American literature. Typical works discussed include those by Whitman, Dickinson, Chopin, Faulkner, Fitzgerald, Hemingway, Salinger, Miller, Williams, O'Neill, Morrison and major poets. Students are expected to read a variety of teacher-assigned novels over the summer in preparation for the course. Students should expect to spend approximately one hour nightly preparing for class. This course meets the department requirement for a core English class for 11th or 12th grade students. **(Level 3 Weighting)**

DUAL E-ENGLISH 102 COLLEGE IN THE HIGH SCHOOL**Course No: D1CV102****(Prerequisite: Students must successfully complete Dual E-English 101)****Credit: 1****Gr. 11-12**

Students are enrolled as HACC students and take the CHS course at a reduced tuition rate. Students must take a placement test in the spring at Conestoga Valley High School. Upon successful completion of course requirements, students will earn three college credits through HACC that may be transferred to most Pennsylvania colleges/universities and some out-of-state schools as well as one CV English credit. This reading-and-writing-intensive course focuses heavily on developing various argumentative rhetorical strategies in response to literature and responding in larger and smaller essays to a combination of poetry, fiction, and non-fiction. Students will also gain valuable interpretive, analytical, and evaluative reading skills while interacting with great works of American, British, and World literature from across time periods. Students are expected to read a variety of teacher-assigned novels over the summer in preparation for the course. Students should expect to spend approximately one hour nightly preparing for class. This course meets the department requirement for a core English class for 11th or 12th grade students. **(Level 3 Weighting)**

DUAL E- INTRODUCTION TO FILM**Course No: D4CV101****(Prerequisite: Advanced Composition)****Credit: 1****Gr. 11-12**

This class is offered 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 successful completion of 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 how 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. **(Level 3 Weighting)**

AP ENGLISH LITERATURE AND COMPOSITION**Course No.: 1040AP.2****(Prerequisite: Advanced Composition)****Credits: 2****Gr. 11-12**

This challenging, two-semester course, designed for those students interested in taking the AP English exam to receive college credit(s), is recommended for those who have taken Honors English 3 or CHS 101. 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 on a daily basis, 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 successfully complete AP level work both in and outside of the classroom. Students are required to read select texts prior to 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. **(Level 3 Weighting)**

ENGLISH ELECTIVES

IMPORTANT NOTE: The following courses are English electives. They do not fulfill the department requirements of passing four core English classes for graduation. They may be counted as elective credits required for graduation.

CURRENT ISSUES IN JOURNALISM

Course No. 1222

Credit: .5

Gr. 9-12

This course will consist of project- or problem-based units implemented according to current issues in journalism. Students will work for an extended period of time to examine and respond to an authentic, engaging, and complex question, problem, or challenge related to the field of journalism. Speakers and local practitioners in the field may be utilized for skill building and mentorship. The journalism content will be flexible to accommodate developments in media, technology, and emerging fields, as well as student engagement and personalized learning. **(Level 1 Weighting)**

ADVANCED COMPOSITION

Course No: 1341H

(Prerequisite: for 11th and 12th grade honors classes, CHS, and AP)

Credit: .5

Gr. 9-12

This intensive writing course is designed for the student who has the desire 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 as well as 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)**

PUBLIC SPEAKING

Course No: 1412

Credit: .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 the fundamentals of communication; 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 in order to present various literary selections, individually and chorally. Following instruction on how to write a speech, students will deliver various presentations from the following: 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 a variety of purposes and in a variety of speaking situations.

(Level 1 Weighting)

SMALL GROUP COMMUNICATION

Course No. 1262

Credit: .5

Gr. 9-12

This course will be an exploration of 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)

CREATIVE WRITING

Course No: 1322

Credit: .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 will 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, as well as self-reflection/assessment, will enable students to have a greater understanding of the creative process, of ways to improve writing, and of audience appeal. **(Level 1 Weighting)**

ADVANCED CREATIVE WRITING**Course No. 1323.05H****(Prerequisite:** Creative Writing with a final grade of C or higher, and/or a Communications teacher recommendation)**Credit: .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 will emphasize a project-based learning approach to creative writing and the students will use their skills to create, design, and publish a literary magazine showcasing their best student work. The course will concentrate on developing advanced abilities in creative writing and encouraging students to develop 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 in this class. Students will read, analyze, and write samples of writing in a variety of genres including short stories and poetry, write in a journal daily, conference with peers and the teacher, and reflect on their own learning with the goal of creating and publishing their own writing. **(Level 2 Weighting)**

YEARBOOK PUBLICATIONS**Course No: 1241****Credit: .5****Gr. 10-12**

This course is designed for the 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)**

INTRODUCTION TO THEATRE**Course No: 1431****Credit: .5****Gr. 9-12**

This course provides an introduction to various aspects of the theatre, with an emphasis 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**Course No. 1410****Credit: .5****Gr. 10-12**

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 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)**

ACADEMIC LEADERSHIP AND MENTORSHIP**Course No. 6725.05****Credit: .5****Gr. 10-12**

Academic Leadership and Mentoring is an elective course where students can explore peer mentorship and tutoring. This course will benefit all students providing opportunities to build natural peer supports, strengthen communication, and explore leadership. This course will be an extension of the CV Mentors program, giving students an additional opportunity to improve leadership in various school district settings. Within five units over nine weeks, students will complete a project-based assessment culminating in a final product of their choice. Additionally, students will be required to complete a log of tutoring hours/assignments. Student learning goals will be individualized and based on placement and mentoring need. **(Level 1 Weighting)**

WRITING/READING SUPPORT

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, GRADE, benchmark performance, district-constructed assessments, and teacher recommendations. **(Level 1 Weighting)**

Please Note: This course is not an elective. This course is mandated for students who have demonstrated a need for additional skill development in reading.

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, GRADE, benchmark performance, 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)**

Please Note: This course is not an elective. This course is mandated for students who have demonstrated a need for additional skill development in reading.

ACADEMIC LITERACY C

Course No: 1553.5

Credit: .5

Gr. 11-12

This course is designed to enhance students' reading skills for lifelong learning and to prepare students for success on the Literature Keystone. The course will emphasize reading comprehension and constructive responses to non-fiction reading selections. Enrollment in this course is based on student data such as previous PSSA scores, GRADE, benchmark performance, 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)**

Please Note: This course is not an elective. This course is mandated for students who did not score proficient on the Literature Keystone.

SOCIAL STUDIES

IMPORTANT NOTE Students are required to pass: U.S. History 1, 2, World History, and U.S. Government & Economics.

HONORS U.S. HISTORY 1

Course No: 2011H

Credit: 1

Gr. 9

This Honors level course is recommended for students reading above grade level, performing at well above average level, and identified by their 8th grade teacher as well qualified. Social, political, geographical, economic and cultural history is interwoven in this comprehensive survey of the United States from the Age of Jackson to the Gilded Age. Students taking this course are required to do additional readings, writings and projects beyond the Traditional course curriculum. Students who elect to take this class will be encouraged to enroll in the AP U.S. History course for tenth grade. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 2 Weighting)**

TRADITIONAL U.S. HISTORY 1

Course No: 2011

Credit: 1

Gr. 9

Social, political, geographical, economic and cultural history is interwoven in this comprehensive survey of the United States from the Age of Jackson to the Gilded Age. 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)**

GENERAL U.S. HISTORY 1

Course No: 2012

Credit: 1

Gr. 9

In scope, this course covers the 19th century with an emphasis on the history of technology. There is some chronology involved (Age of Jackson, Manifest Destiny, Civil War), but the focus of the approach features “hands on” topical studies: transportation, multiculturalism, technology of the Gilded Age. 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)**

AP U.S. HISTORY (THIS COURSE MEETS EVERY DAY ALL YEAR)

Course No: 2020AP

Credits: 2

Gr. 10-12

This course provides a general overview of the history of the United States. In chronological order, students will explore America’s past, examining the cultural, political, geographical, economic and technological changes that have taken place and have helped to shape us and guide us as a nation today. Additional emphasis placed on college preparatory activities and exercises as identified by the College Board AP U.S. HISTORY course description: “The AP program in United States History is designed to provide students with the analytical skills and enduring understandings necessary to deal critically with the problems and materials in United States history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials—their relevance to a given interpretive problem, their reliability, and their importance—and to weigh the evidence and interpretations presented in historical scholarship. An AP U.S. History course should thus develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in an essay format.” This course is designed for students interested in pursuing a college degree or other post-secondary studies. **Please Note: Sophomores may take this all-year AP U.S. History as their required course.**

(Level 3 Weighting)

DUAL E - U.S. HISTORY 2

Course No: D4CV201

Credit: 1

Gr. 10-12

Students who achieve a “C” or better for the course will earn THREE (3) credits from the University of Pittsburgh. This CHS course traces and analyzes the central developments in U.S. History from Reconstruction 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 probe 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. Course will familiarize students with the academic discipline of history, including methodologies and practices. Students will interpret primary and secondary sources, learn to read and construct historiographical arguments, and hone analytical and evidenced based writing skills. ***Sophomores may take DUAL E - U.S. HISTORY 2 as their required U.S. History 2 course.*** **(Level 3 Weighting)**

TRADITIONAL U.S. HISTORY 2**Course No: 2021****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)**

GENERAL 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)**

DUAL E-WESTERN CIVILIZATION 2**Course No: D4CV202****Credit: 1****Gr. 11-12**

This course is a survey of the growth of civilization in Western and Eastern Europe after the Reformation to the present. This course can be taken as the required 11th grade credit. Extensive reading, writing, and research are required. This course is designed for students interested in pursuing a four-year college degree and can be taken. **(Level 3 Weighting)**

TRADITIONAL WORLD HISTORY**Course No: 2031****Credit: 1****Gr. 11**

This is one option for the required course for 11th grade traditional academic students and is a comparative survey of World History as related to the development of the modern world. This course centers on the following themes: the origins and expansion of the global economy and the varied types of barriers to that expansion, the rise of secular/scientific thinking and politics, the transformation of religion in the modern world, and the influence of technology. Essential 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)**

TRADITIONAL WORLD CULTURES**Course No: 2035****Credit: 1****Gr. 11**

In this semester-long course, students will take an in-depth look at the world's major cultures by region. The study of each of these cultures will focus upon historical and present-day culture and geography. Students will develop the use geographical concepts and skills to acquire information and systematically apply decision making processes to real-life situations. This is one option for the required course for 11th grade traditional academic students. This course is 100% project-based. **(Level 1 Weighting)**

AP GOVERNMENT & POLITICS: U.S.**Course No: 2040APV****Credit: 1****Gr. 12**

This course is open to all seniors with approval who commit to take the Advanced Placement exam in United States Government and Politics. 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 honors course should have the ability to study at an accelerated pace, a strong work ethic and an ability 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)**

TRADITIONAL U.S. GOVERNMENT & ECONOMICS**Course No: 2041****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. Students are also introduced to the fundamentals of economics and the workings of the U.S. economic system. Topics covered include a brief comparison of economics systems, the workings of supply and demand in the market place, money, banking, types of business, the factors of production, competition, and the role of government in the economy. 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. *Student interested in taking the blended version of the class should enter a special request on the course selection worksheet.* **(Level 1 Weighting)**



Blended Course – combination of traditional face-to-face instruction and web-based online learning.

GENERAL U.S. GOVERNMENT & ECONOMICS**Course No: 2042****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 the individual 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

IMPORTANT NOTE: *The following courses are social studies electives. These courses do not fulfill the department requirements of passing the required social studies classes of U.S. History 1 & 2, World History, and U.S. Government & Economics, although they may be counted as elective credits required for graduation. The symbol "\$" adjacent to a course title indicates a class with a lab fee. Students in the Free and Reduced Lunch program at CVHS are eligible for Free and Reduced general lab fees.*

INTERNATIONAL STUDIES**Course No: 2225****Credit: .5****Gr. 9-12**

To promote student awareness of current international problems, tensions, and conflicts. Opportunities are provided to examine US foreign policy interests and issues and current world hot spots. **(Level 1 Weighting)**

VIETNAM WAR**Course No: 2232****Credit: .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 to the war including military action, the impact on domestic politics, and coverage of the war by the media and the continued influence that the war has had on American culture. **(Level 1 Weighting)**

SOCIOLOGY**Course No: 2332****Credit: .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. **(Level 1 Weighting)**

PSYCHOLOGY**Course No: 2442****Credit: .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, through the writing and analytical skills expected, and the topics discussed. Topics include psychological theory and history, (including Freud) intelligence, memory, learning, personality, and mental disorders. Students are expected to participate in class activities and discussions and to complete an analytical paper. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 1 Weighting)**

AP PSYCHOLOGY**Course No: 2442.2AP**

Prerequisite: Psychology with a final grade of C or higher or teacher recommendation)

Credits: 2**Gr. 11-12**

The AP 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 methods psychologists use in their science and practice. **(Level 3 Weighting)**

LOCAL HISTORY & GEOGRAPHY (\$)**Course No: 2632****Credit: .5****Gr. 11-12**

This course looks at Lancaster County's heritage and at its changing face as it responds to a growing population and to tourism. Units include geography, Indians, the Revolution, folk medicine and superstitions, religion, architecture, crafts, and businesses-past and present. Speakers and field trips (covered by a \$10 lab fee) are part of the approach. **(Level 1 Weighting)**

WORLD WAR 2**Course No: 2732****Credit: .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 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 instruction materials including military texts, movies, tapes, and other first person accounts of the war. **(Level 1 Weighting)**

AFRICAN AMERICAN STUDIES**Course No: 2230.05****Credit: .5****Gr. 11-12**

This course begins with exploring African heritage and the slave trade. The African Slave experience and resistance in America. Events leading up to the Civil War and emancipation. The bulk of this course will focus on events after the Civil War, starting with Reconstruction and the development of the African American identity as freedmen. The attempts to legally re-enslave the freedmen through legal means (Jim Crow laws). The development of the Civil Rights Movement. The course would end with the life of the contemporary. **(Level 1 Weighting)**

SCIENCE

IMPORTANT NOTES: "Principles of Science" and "Biology" are required classes usually taken in your Freshman and Sophomore years at CVHS. CV graduation standards require three full credits of science, although four credits of science are recommended for students planning on attending a four-year college/university. 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. Please take note of course prerequisites and when a specific science course is being offered in order to map out a science course of study.

Students planning on attending a college, university or vocational technical school to pursue a STEM related field should take chemistry and physics to achieve four 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 particular area(s) of interest.

Those students that are 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 those 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. These .5 and 1 credit science electives can add to the overall science education of all students and add up to the third full credit in science required for graduation from CVHS.

The symbol "\$" adjacent to a course title indicates a class with a lab fee. Students in the Free and Reduced Lunch program at CVHS are eligible for Free and Reduced general lab fees.

Distinguished Honors Science Student: After course selection during a student's junior year, a "Distinguished Honors Science Student" comment will be added to the transcript of students that have attained or requested courses in their Course Selection that would allow them to achieve the following criteria:

- Students must earn an A or B in all four core science classes (Earth & Physical 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: 3015.1H****(Prerequisite: "A" in Gr. 8 Science and Teacher Recommendation)****Gr. 9****Credit: 1**

Honors Principles of Science is the first course offered in science for 9th grade students. This course concentrates on the following science topics: the scientific method, measurements, geologic phenomena, Earth's resources, environmental issues impacting our local, regional, and global society, biochemistry, conservation of mass, energy, classification of states of matter, and the three gas laws. Students who select this course should be prepared to complete a significant amount of independent work both in and outside of the classroom. Students are required to complete an Honors Summer Science Reading Assignment the summer before the plan on enrolling in Honors Principles of Science. 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)**

TRADITIONAL PRINCIPLES OF SCIENCE

Course No: 3015.1

Credit: 1

Gr. 9

Traditional Principles of Science is the first course offered in science for 9th grade students. This course concentrates on the following science topics: the scientific method, measurements, geologic phenomena, Earth's resources, environmental issues impacting our local, regional, and global society, biochemistry, conservation of mass, energy, classification of states of matter, and the three gas laws. 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)**

GENERAL PRINCIPLES OF SCIENCE

Course No. 3016.1

Credit: 1

Gr. 9

General Principles of Science is the first course offered in science for 9th grade students. This course concentrates on the following science topics: the scientific method, measurements, geologic phenomena, Earth's resources, environmental issues impacting our local, regional, and global society, biochemistry, conservation of mass, energy, classification of states of matter, and the three gas laws. 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: "B" or higher in Honors Earth/Physical Science, or an "A" in Traditional Earth/Physical Science and Teacher Recommendation)

Gr. 9-10

Credit: 1

This advanced Biology course is a more challenging and comprehensive alternative to the traditional biology curriculum with the goal of preparing students for both proficiency on the Keystone Biology Exam and a smooth transition into Advanced Placement Biology. Topics covered include: Basic Biological Principles, Chemistry for Life, Bioenergetics, Homeostasis and Transport, Cell Growth and Reproduction, Genetics, Evolution, and Ecology. This required course has been developed in accordance with the Biology Keystone Assessment Anchors and Eligible Content. 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. Students are required to complete an Honors Summer Science Reading Assignment the summer before the plan on enrolling in Honors Biology. 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)**

TRADITIONAL BIOLOGY

Course No: 3021

Credit: 1

Gr. 9-10

Traditional Biology is offered as the second required course of science study, and prepares students for successful completion of the Keystone Biology Exam. Basic Biological Principles, Chemistry for Life, Bioenergetics, Homeostasis and Transport, Cell Growth and Reproduction, Genetics, Evolution, and Ecology are the units incorporated into this lab-oriented course. This required course has been developed in accordance with the Biology Keystone Assessment Anchors and Eligible Content. 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)**

GENERAL BIOLOGY

Course No: 3022

Credit: 1

Gr. 10

General Biology is a course developed in accordance with the Biology Keystone Assessment Anchors and Eligible Content. Basic Biological Principles, Chemistry for Life, Bioenergetics, Homeostasis and Transport, Cell Growth and Reproduction,

Genetics, Evolution, and Ecology are incorporated into this lab-oriented course. General Biology is offered as the second required science course for the general student and prepares these students for successful completion of the Keystone Biology Exam which will be administered as the final exam at the end of the course. To graduate from CVHS, students are required by the state to score proficient or distinguished on the Biology Keystone Exam. 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)**

TERM-LONG SCIENCE ELECTIVES

HONORS CHEMISTRY

Course No: 3031H

(Prerequisite: "B" or higher in Honors Biology, or an "A" in Traditional Biology and Teacher Recommendation)

Credit: 1

Gr. 10-12

The Honors Chemistry course is a more comprehensive alternative to the traditional chemistry curriculum. Topics covered include: chemical change, atomic and molecular structure, chemical bonding, behavior of gases, chemical energy, nuclear chemistry and stoichiometry. Laboratory work is correlated with the classroom material to acquaint the student with basic laboratory procedure. 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. Students are required to complete an Honors Summer Science Reading Assignment the summer before the plan on enrolling in Honors Chemistry. 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 fields. **(Level 2 Weighting)**

TRADITIONAL CHEMISTRY

(Prerequisite: Algebra 1)

Course No: 3031

Credit: 1

Gr. 10-12

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

GENERAL CHEMISTRY

Course No: 3032

Credit: 1

Gr. 11-12

Students taking this course will study chemistry in 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 (FALL SEMESTER ONLY)

Course No: 3431H

(Prerequisite: Algebra 2, "B" or higher in Honors Chemistry or Honors Biology, or an "A" in Traditional Chemistry or Traditional Biology and 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. Students are required to complete an Honors Summer Science Reading Assignment the summer before the plan on enrolling in Honors Physics. 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)**

TRADITIONAL PHYSICS

(Prerequisite: Algebra 2)

Credit: 1

Course No: 3431

Gr. 11-12

Traditional 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 through the use of a paradigm lab experience, student discourse, and critical thinking (not lecture). The course will cover the following topics: Scientific Thinking, 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)**

GENERAL PHYSICS (formerly Principles of Technology 1)

Credit: 1

Course No: 3432

Gr. 11-12

General Physics is offered for those students wishing to gain a conceptual understanding of how forces, fluids, heat and electricity affects our everyday lives. This course provides a logical presentation of motion, forces, energy, momentum, fluid mechanics, thermodynamics and electricity. Laboratory work is a key aspect of this course to introduce these concepts through the use of 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 (FALL SEMESTER ONLY)

(Prerequisite: Teacher Recommendation)

Credit: 1

Course No. 3610H

Gr. 9 -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. Students are required to complete an Honors Summer Science Reading Assignment the summer before the plan on enrolling in Honors Scientific Research. **(Level 2 Weighting)**

Course No. 3615H: After participation in the CVSD Science Fair 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 in addition to the student's five block schedule. Course 3615H is a .5 credit honors independent research class providing potential academic credit for students completing independent research science fair projects with the goal of presenting at NMSEF. **(Level 2 Weighting)**

ECOLOGY (SPRING SEMESTER ONLY) (\$)

(Prerequisite: Successful completion of Biology)

Credit: 1

Course No: 3221

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)**

FRESHWATER/ENVIRONMENTAL BIOLOGY (\$)**Course No: 3132****(Prerequisite: Successful completion of Biology)****Gr. 10-12****Credit: 1**

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 storm water 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)**

MARKING PERIOD SCIENCE ELECTIVES

ASTRONOMY

Credit: .5

Course No: 3410.05

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 will, based on their interest and choice, select a variety of topics to develop a series of presentations showcasing their learning (and interest) in the astronomical topics. **(Level 1 Weighting)**

ANATOMY & PHYSIOLOGY A (\$)

Credit: .5 (prerequisite – Completion of Biology with a C grade or higher)

Course No: 3053

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 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 (\$)

Credit: .5 (prerequisite – Completion of Biology with a C grade or higher)

Course No: 3054

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 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 (\$)

Credit: .5 (prerequisite – successful completion of Biology)

Course No: 3800.05

Gr. 10-12

This nine-week course will focus on the skills and concepts commonly used in biotechnology. 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 biotechnology majors and careers. The objective of this course is to provide the students of Conestoga Valley High School with an introductory course in a growing and exciting field of biology. Students who are interested in biology, genetics, medicine, GMOs, agriculture, and/or research will benefit from this course. As a prerequisite, students need to pass biology prior to taking this class. There is a \$15 lab fee to cover the cost of lab consumables. **(Level 1 Weighting)**

CHEMISTRY IN THE KITCHEN (\$)

Credit: .5

Course No: 3100.05

Gr. 10-12

Become a better cook by understanding the principles behind cooking. This nine-week course will allow 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)**

ELECTRIC CIRCUITS

Credit: .5 (prerequisite – successful completion of Algebra 1)

Course No: 3500.05

Gr. 10-12

This nine-week course explores electric circuits through a series of hands-on, inquiry-based experiments. Topics covered include the behavior of simple electric circuits, measurement of current and resistance, measurement of voltage, and batteries and bulbs in everyday life. The course emphasizes critical thinking skills. You will conduct simple experiments, and observe the results to discover how electric circuits work. Basic algebra skills are used to apply Kirchhoff's, Ohm's and Watt's laws to electrical circuits. The electrical circuit is the fundamental building block of today's digital world. This course is intended for students that are interested in how electricity works. **(Level 1 Weighting)**

FORENSICS SCIENCE (\$)

Course No: 3400.05

Credit: .5

Gr. 10-12

This nine-week 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 evidences 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)**

PENNSYLVANIA FISHES (\$)

Course No: 3300.05

Credit: .5 (prerequisite – successful completion of Biology)

Gr. 10-12

Let's study fish! Ichthyology is the biological study of fishes. This nine-week course examines aspects relating to the behavior, evolution, diversity and ecology of fishes. The course will include fishes from throughout the world; however, we will emphasize the freshwater fishes of North America and particularly those found in the waters of the Susquehanna Watershed. The course objectives are to develop: 1) a broad knowledge of the adaptations of fishes to their environment, 2) knowledge of the classification of fishes, 3) species identification skills for fishes found in the Susquehanna Watershed and 4) critical thinking skills related to fish biology and ecology, 5) an appreciation of the historical importance of fish to Central Pennsylvania watersheds. Laboratory exercises, content discussions, projects and field experiences will be used to present and study all things fish. **(Level 1 Weighting)**

STEM WORKSHOP (\$)

Course No: 3620.05

Credit: .5

Gr. 10-12

STEM (Science, Technology, Engineering, and Math) Workshop provides outstanding opportunities for students to experience project-based learning in an engaging, rigorous environment with content that exposes students to emerging professions that offer excellent career opportunities. This nine-week course will provide learning modules so that students can collaboratively work on topics such as Engineering, 3-D Design and Printing, Digital Image Processing, and Robotics, but these topics will be flexible to accommodate developments in technology and emerging fields. As a prerequisite, students need to pass Algebra 1 prior to taking this class. There is a \$15 lab fee to cover the cost of lab consumables. **(Level 1 Weighting)**

SCIENCE, TECHNOLOGY, and SOCIETY

Course No: 3210V

Credit: .5

Gr. 10-12

This online course provides an opportunity for students to explore modern technology and learn how some of our newer inventions work as well as impact the world. It is designed for anyone who ever took apart a broken appliance to find out what was inside. The course is taught only online with no laboratory component. Students must be self-motivated.

(Level 1 Weighting)

ADVANCED PLACEMENT SCIENCE ELECTIVES

AP BIOLOGY (FULL YEAR COURSE) (\$)

Course No. 3029AP

(Prerequisite: "A" in biology and Teacher Recommendation)

Gr. 10-12

Credits: 2

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: "A" in chemistry and Teacher Recommendation)

Gr. 11-12

Credits: 2

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 (ONE SEMESTER ONLY) (\$)

Course No: 3230AP

(Prerequisite: "A" in biology and Teacher Recommendation)

Gr. 11-12

Credit: 1

The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. 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 3 Weighting)

AP PHYSICS - MECHANICS (SPRING SEMESTER ONLY)

Course No: 3430AP

(Prerequisite: Calculus 1 and Physics, and Teacher Recommendation)

Gr. 11-12

Credit: 1

AP Physics is an advanced placement course 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, Systems of Particles, Momentum, Oscillations and Gravitation. In addition to teaching students advanced mechanics concepts and analysis, this course is intended to prepare students to take the AP Physics C: Mechanics exam. Many colleges and universities will grant students, who successfully complete this course and the AP exam, credit for the introductory calculus-based college physics course (please check with each university or college for their specific requirements). **(Level 3 Weighting)**

MATHEMATICS

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

A Special Note about the Use of Calculators:

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.

TRADITIONAL ALGEBRA 1

Course No: 4011

(Prerequisite: Teacher recommendation)

Credit: 1

Gr. 9-10

Traditional Algebra 1 is the first course offered in the Traditional 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 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. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 1 Weighting)**

GENERAL ALGEBRA 1A

Course No: 4012A

(Prerequisite: Teacher recommendation)

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 term. Students in this course also enroll 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)**

GENERAL 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. **(Level 1 Weighting)**

GENERAL ALGEBRA 1

Course No: 4012

(Prerequisite: Teacher recommendation)

Credit: 1

Gr. 9-10

This semester-long Algebra 1 course is the first course in the General pathway for students not enrolled in Algebra 1A and Algebra 1B. 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. To graduate, students are required to be proficient on the Algebra 1 Keystone Exam given as the final for the course. **(Level 1 Weighting)**

MATH PLUS

Course No: 4515

(Prerequisite: Algebra 1, Algebra 1B or Traditional 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. To graduate, students are required to be proficient on the Algebra 1 Keystone Exam. 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

(Prerequisite: "A" or "B" in Algebra 1 and teacher recommendation)

Course No: 4010H

Credit: 1

Gr. 9-10

Honors Geometry is the first course in the Honors pathway. 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)**

TRADITIONAL GEOMETRY

(Prerequisite: Traditional Algebra 1 and teacher recommendation)

Course No: 4021

Credit: 1

Gr. 9-11

Traditional Geometry is the second course in the Traditional pathway. 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)**

GENERAL GEOMETRY

(Prerequisite: Algebra 1)

Course No: 4022

Credit: 1

Gr. 10-11

Geometry is the second course in the General pathway. 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

(Prerequisite: "A" or "B" in Algebra 1 and teacher recommendation)

Course No: 4020H

Credit: 1

Gr. 9-10

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, and imaginary numbers 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)**

TRADITIONAL ALGEBRA 2

(Prerequisite: Traditional Algebra 1 and teacher recommendation)

Course No: 4031

Credit: 1

Gr. 9-11

Traditional Algebra 2 is the third course in the Traditional pathway. Content includes but is not limited to quadratic equations and functions, advanced factoring, transformations of parent functions, and an introduction to imaginary numbers. This course is designed for students interested in pursuing a college degree or other post-secondary studies. **(Level 1 Weighting)**

GENERAL ALGEBRA 2

(Prerequisite: Algebra 1, Algebra 1B or Traditional Algebra 1)

Course No: 4032

Credit: 1

Gr. 10-11

Algebra 2 is the third course in the General pathway. Topics will be presented at a pace that allows time for students to strengthen their algebra skills. Content includes quadratic equations and functions, polynomials and factoring, transformations of parent functions, and an introduction to imaginary numbers. This course is designed for students pursuing a career immediately after high school or a 2-year college degree. **(Level 1 Weighting)**

ALGEBRA 3

(Prerequisite: Algebra 2 and teacher recommendation)

Course No: 4042

Credit: 1

Gr. 11-12

Algebra 3 is intended for juniors or seniors who are not yet ready for Traditional Pre-Calculus. Content includes systems of equations, matrices, factoring, rational expressions, graphing functions without a calculator, logarithms, trigonometry, and limits. This course is designed for students pursuing a career immediately after high school or a 2-year college degree. **(Level 1 Weighting)**

HONORS PRE-CALCULUS**Course No: 4030H****(Prerequisite: "A" or "B" in Honors Algebra 2 and teacher recommendation)****Gr. 11-12****Credit: 1**

Honors Pre-Calculus is the third course in the Honors pathway. Introductory calculus theory is introduced and used throughout the course. Topics include sequence and series, limits, exponential and logarithmic functions, Trigonometry, derivatives, and conic sections. This course is designed for students interested in pursuing a college degree or other post-secondary studies.

(Level 2 Weighting)**TRADITIONAL PRE-CALCULUS****Course No: 4041****(Prerequisite: "A" or "B" in Traditional Algebra 2 and teacher recommendation)****Gr. 11-12****Credit: 1**

This course prepares students for calculus by utilizing analytic geometry and elementary functions. Topics include sequence and series, limits, exponential and logarithmic functions, Trigonometry, derivatives, and conic sections. 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: "A" or "B" in Traditional or Honors Pre-Calculus and teacher recommendation)****Gr. 11-12****Credit: 1**

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: Honors Calculus and teacher recommendation) (2ND SEMESTER ONLY)****Gr. 11-12****Credit: 1**

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: "A" or "B" in Traditional or Honors Pre-Calculus and teacher recommendation)****Gr. 11-12****Credits: 2**

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 includes limits, differentiation, integration, series, and application problems. **(Level 3 Weighting)**

TRADITIONAL STATISTICS**(Prerequisite: Algebra 2)****Course No: 4840****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, probability distributions, and correlation & regression. This course is designed for students interested in pursuing a college degree or other post-secondary studies.

(Level 1 Weighting)**HONORS STATISTICS****(Prerequisite: Algebra 2 and teacher recommendation)****Course No: 4840H****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)

AP STATISTICS

(Prerequisite: Honors Statistics and teacher recommendation) (2ND SEMESTER ONLY)

Course No: 4840AP

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. **Students enrolling in this course must also enroll in Honors Statistics in the same school year. (Level 3 Weighting)**

COMPUTER SCIENCE ELECTIVES

EXPLORATIONS IN COMPUTER SCIENCE

Course No: 4200.1

Credit: .5

Gr. 9-12

This one marking period course will introduce the student to process of writing algorithms and pseudocode along with developing flow charts in preparation to write code for a project of their choice in the language of their choice. After an introduction to problem deconstruction and pre-writing skills, students will explore the language of their choice using a variety of sources and code a program using the basic functions of sequence, selection and iteration(repetition). Students will also develop procedures that can be reused in their programs. **(Level 1 Weighting)**

COMPUTER SCIENCE PRINCIPLES 1

Course No: 4210.1

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. Students will learn how to program in Scratch and Process while learning about the principles of computing. This course is based on the College Board's Computer Science Principles curriculum framework for introductory computer science. **This course is a prerequisite for AP Computer Science Principles. (Level 1 Weighting)**

AP COMPUTER SCIENCE PRINCIPLES

(Prerequisite: Computer Science Principles 1)

Course No: 4210AP

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)**

COMPUTER SCIENCE 1

(Prerequisite: Computer Science Principles 1)

Course No: 4222

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 (4330AP) and covers the first portion of the JAVA language. **(Level 2 Weighting)**

AP COMPUTER SCIENCE A

(Prerequisite: Computer Science 1)

Course No: 4330AP

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 **Computer Science 1. (Level 3 Weighting)**

FUNDAMENTALS OF PYTHON

(Prerequisite: Computer Science Principles 1)

Course No: 4350.1

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)

NETWORKING FUNDAMENTALS 1

(Prerequisite: Computer Maintenance 1)

Course No: 4422

Credit: .5

Gr. 9-12

This is an intense course with classroom and laboratory experience in current and emerging networking technology that will provide the opportunity to enter employment and/or further education and training in the computer networking field. Instruction includes: safety, networking & terminology, subnetting, cable testing, tools, standards and protocols, and OSI models.

(Level 1 Weighting)

COMPUTER MAINTENANCE 1

Course No: 4632

Credit: .5

Gr. 9-12

This course provides students with manipulative skills as they perform a series of real life maintenance and upgrading exercises on a PC. Topics include: Computer hazards and safety, operation of computer components, Windows operating system, and peripheral devices. **(Level 1 Weighting)**

COMPUTER MAINTENANCE 2

(Prerequisite: Computer Maintenance 1)

Course No: 4732

Credit: .5

Gr. 9-12

By taking this class, you will be a member of the highly-respected CV Tech Team. Training and hands-on involvement will be the foundation of the required daily work. This course provides students with an in depth exploration on troubleshooting software and hardware issues. It is designed to explore troubleshooting capabilities and provide extensive skills troubleshooting the technology issues experienced by the student body. Your participation on this team will gain you valuable on-the-job training and your involvement could lead to a career in technology. **(Level 1 Weighting)**

WORLD LANGUAGES

IMPORTANT NOTES: 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. Proficiency on state mandated tests in Reading is recommended.

OCCUPATIONAL SPANISH

(Prerequisite: Spanish 2 with grades of 75% or higher and teacher recommendation) **Course No: 5035 or 5035.05**
Credit: 1 or .5 **Gr. 9-12**

Students will be introduced to practical vocabulary and situations related to various occupations. Students will investigate professions within the medical, social services, law enforcement and hospitality fields and create a portfolio for a desired career. Topics to be addressed in Spanish include: social services, law enforcement, the hospitality industry, anatomy, physiology, medical conditions, first aid, emergencies and disasters, child care, treatments and remedies, client intake, nutrition. The class will visit a variety of institutions which may include Southeast Clinic, Welsh Mountain Home Clinic, East Lampeter Police Department, Schreiber Pediatrics, Healthy Beginnings, Hospice of Lancaster, Landis Homes and Friendship Community. Panel discussions with professionals in various occupations will be incorporated throughout the course. This course is ideal for native speakers and those wishing to enhance their proficiency in oral Spanish. **(Level 1 Weighting)**

LEVEL 1

FRENCH 1

Course No: 5111

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)**

GERMAN 1

Course No: 5211

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. The textbook Geni@! klick uses standards which train students for the Deutsch Zertifikat.. Topics include German speaking countries, school, animals, free time, shopping and family. Students will also prepare a German meal in the classroom. **(Level 1 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)**

LEVEL 2

FRENCH 2

(Prerequisite: Grade of 75% or higher in French 1)

Course No: 5121

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. **(Level 1 Weighting)**

GERMAN 2

(Prerequisite: Grade of 75% or higher in Level 1)

Course No: 5221

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. The textbook *Geni@I klick* uses standards that train students for the Deutsch Zertifikat. Topics include celebrations, describing a city, travel, professions, Berlin, friendships, media and shopping. Students will also learn about the cuisine of the German speaking world and prepare a German/Swiss/Austrian meal in the classroom. **(Level 1 Weighting)**

SPANISH 2

(Prerequisite: Grade of 75% or higher in HS Level 1, or 85% in 8th Grade Spanish)

Course No: 5021

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)**

LEVEL 3

FRENCH 3

(Prerequisite: Grade of 75% or higher in Levels 1 and 2)

Course No: 5131

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. French students will be introduced to the French Revolution, and the Provence region of France will be highlighted. Emphasis is on those materials, strategies, and activities that will enhance the student's ability to function in all contexts within the language. Teachers will assess oral and written skills on a regular basis. **(Level 1 Weighting)**

GERMAN 3

(Prerequisite: Grade of 75% or higher in Levels 1 and 2)

Course No: 5231

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. The textbook *Geni@I klick* uses standards that train students for the Deutsch Zertifikat. Topics include living/housing, emotions, food preparation, reading a text, finances, film and cultural comparisons. German 3 students will research a German speaking city in preparation for the GAPP exchange to Karlsruhe, Germany. German 3 students will also read their first fairy tale and the book *Till Eulenspiegel*. Students will view a movie from the Shrek Trilogy as part of a unit on fairy tales. Students will also prepare a German/Austrian/Swiss meal in the classroom.

Please Note: Students who are enrolled in German 3 or a higher level may apply for the GAPP exchange trip to Germany, which takes place every two years. (Level 1 Weighting)

SPANISH 3

(Prerequisite: Grade of 75% or higher in Levels 1 and 2)

Course No: 5031

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. Students will be expected to communicate in Spanish. **(Level 1 Weighting)**

LEVEL 4

HONORS FRENCH 4

(Prerequisite: Teacher Recommendation)

Course No: 5141H

Credit: 1

Gr. 10-12

This course continues its emphasis on proficiency in the four skill areas of the language. Students will study additional literature, culture, history, and geography. In addition, French students will read *Le Fantôme de L'Opéra* and study famous people from the French Revolution. Appropriate materials, strategies, activities, and special projects will enhance the learning process. Teachers will assess oral and written skills on a regular basis. This may be offered online. **(Level 2 Weighting)**

HONORS GERMAN 4

(Prerequisite: Teacher Recommendation)

Course No: 5241H

Credit: 1

Gr. 10-12

German IV-V-VI – Students in German levels 4 through 6 will experience a rotating curriculum in which they will read selected works by Erich Kästner, Inge Scholl, Christa Wolf, and the Brothers Grimm. Students will learn about the history surrounding the works and improve their analysis and interpretation skills in German. The textbook *Aspekte* uses standards which train students for the Deutsch Zertifikat. Students will also prepare a Swiss/German meal in the classroom. Appropriate materials, strategies, activities, and special projects will enhance the learning process. 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)**

Please Note: Students who are enrolled in German 3 or a higher level may apply for the GAPP exchange trip to Germany, which takes place every two years.

HONORS SPANISH 4

(Prerequisite: Teacher Recommendation)

Course No: 5041H

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. Students will read various genres, including poetry and short stories. Students will write essays in the target language. A study of the movie *Casi Casi* is also a focus. 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. Students will be expected to communicate in Spanish. **(Level 2 Weighting)**

LEVEL 5

HONORS FRENCH 5

(Prerequisite: Teacher Recommendation)

Course No: 5151H

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. French students will read *Les Misérables* and will participate in an in-depth study of the French Revolution as the historical context to *Les Misérables*. Student presentations are an essential part of this level. Appropriate materials, strategies, activities, and special projects will enhance the learning process. Teachers will assess oral and written skills on a regular basis. This may be offered online. **(Level 2 Weighting)**

HONORS GERMAN 5

(Prerequisite: Teacher Recommendation)

Course No: 5251H

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. See German listing above. Student presentations are an essential part of this level. Appropriate materials, strategies, activities, and special projects will enhance the learning process. 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)**

Please Note: Students who are enrolled in German 3 or a higher level may apply for the GAPP exchange trip to Germany, which takes place every two years.

HONORS SPANISH 5

(Prerequisite: Teacher Recommendation)

Course No: 5051H

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. Students will be expected to communicate only in Spanish.

(Level 2 Weighting)

LEVEL 6

HONORS FRENCH 6

(Prerequisite: Teacher Recommendation)

Course No: 5161H

Credit: 1

Gr. 11-12

Our block schedule gives students the opportunity to continue their language studies beyond level 5. This higher level offers students the chance to improve their language proficiency as well as continue their language study as they prepare for further education and work. French 6 students will use their fluency to read challenging literary works such as Huis Clos, Le Barbier de Séville, Le Mariage de Figaro, Le Comte de Monte Cristo, as well as works of other authors. The course also includes an overview of the philosophy of existentialism through the eyes of Jean-Paul Sartre and Eugène Ionesco. This may be offered online. **(Level 2 Weighting)**

HONORS GERMAN 6

(Prerequisite: See German listing above)

Course No: 5261H

Credit: 1

Gr. 11-12

Our block schedule gives students the opportunity to continue their language studies beyond level 5. This higher level offers students the chance to improve their language proficiency as well as continue their language study as they prepare for further education and work. Tutoring will be available for those wishing to take the German AP exam. **(Level 2 Weighting)**

HONORS SPANISH 6

Course No: 5061H

Credit: 1

Gr. 11-12

Our block schedule gives students the opportunity to continue their language studies beyond level 5. This higher level offers students the chance to improve their language proficiency as well as continue their language study as they prepare for further education and work. Spanish 6 students will read various genres, including poetry, short stories, and novels, and students will write essays in the target language. Spanish is the primary language used in the classroom. Student presentations are an essential part of this level. Students will be expected to communicate only in Spanish. **(Level 2 Weighting)**

AP SPANISH LANGUAGE and CULTURE (Online)

(Prerequisite: Spanish IV and a teacher recommendation)

Course No: 5061APV

Credit: 1 or 2

Grade 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. All students are expected to take the AP test in May. **(Level 3 Weighting)**

BUSINESS EDUCATION

CAREER EDUCATION

Course No: 6112

Credit: .5

Gr. 9

This required class will provide students with an application of the PA standards for Career Education and Work. Career Cruising is the website students will use to assist in career awareness, preparation, acquisition, retention and advancement along with entrepreneurship. **(Level 1 Weighting)**

DIGITAL LITERACY 4 TODAY

Course No: 6012

Credit: .5

Gr. 10

This is a required course for all students and beginning in the 2017-18 school year will be scheduled to be taken in Grade 10. This course incorporates the International Society for Technology In Education (ISTE) Standards for today's digital learner. 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)**

BEGINNING KEYBOARDING

Course No: 6022

Credit: .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)**

WEB DESIGN & DEVELOPMENT 1

Course No: 6140

Credit: .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 quality web pages, learn about web design standards and why they're important, and learn to create and manipulate images. **(Level 1 Weighting)**

INTRODUCTION TO BUSINESS

Course No: 6222

Credit: 1

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)**

NOTETAKING

Course No: 6321

Credit: .5

Gr. 9-12

This course is designed to help you boost your grades, improve your study skills, and use technology to bring your organizational habits into the 21st century. Effective individualized reading techniques and personal learning styles will be taught. Students will have hands-on experiences using a Smart Pen, tablet PC, voice recognition software, speed reading and speed writing to fine-tune their individual style of note taking. Who said studying had to be boring? **(Level 1 Weighting)**

ENTREPRENEURSHIP

Course No: 6422

Credit: .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)**

MARKETING AND MANAGEMENT**Course No: 6522****Credit: .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 around us 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 upon 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 fun!

(Level 1 Weighting)**ACCOUNTING 1****Course No: 6641****Credit: 1****Gr. 9-12**

Learn the LANGUAGE OF BUSINESS! Accounting is a "must" for any student planning to major in Business at college and/or enter the business world after high school. It is also beneficial for students striving to gain knowledge about personal financial money management. Accounting 1 class is designed for the focused student who enjoys mathematics, money and numbers. Emphasis is placed on how businesses organize their financial activities. The use of transactions and financial statements in a service and merchandising business will be completed for a sole proprietorship and partnership. Students are expected to complete daily assignments using the computer and traditional accounting methods. Each assignment and concept builds upon prior knowledge. A simulation where you act as a company's accountant will conclude the course. **(Level 1 Weighting)**

ACCOUNTING 2**Course No: 6642****(Prerequisite: 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: Accounting 2)****Credit: 1****Gr. 11-12**

Accounting 3 is designed for students wishing to make accounting a career. Students will study advanced accounting including: corporate accounting, adjustment methods, management accounting tools, and an introduction to cost accounting.

(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)**

SPORTS & ENTERTAINMENT MARKETING**Course No: 6232****Credit: .5****Gr. 9-12**

Do you enjoy watching or participating in sports? Do you love to be entertained? Are you fascinated by those great Super Bowl commercials? Do you have an interest in business? If your answer to these questions is "yes", then this is the course for you! The marketing industry is a growing field and offers numerous business opportunities today. Sports and Entertainment Marketing will explore marketing concepts via the ever-popular sports and entertainment industry. Included in the class will be various marketing strategies along with topics in sponsorship, distribution, pricing, marketing research, segmentation, endorsements, event management, and promotions. **(Level 1 Weighting)**

INTRODUCTION TO INVESTING**Course No: 6613.05****Credit: .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)

INDEPENDENT STUDY- BUSINESS

(Prerequisite: Teacher Recommendation)

Course No: 6999

Credit: .5

Gr. 11-12

This course may be elected by those students who have taken all offered business computer tech courses and are still interested in pursuing the study of additional office skills or students who have completed Advanced Accounting as an 11th grader and wish to do advanced study in the field of accounting. This course offering may be taken for .5 or 1.0 credit. (Level 1 Weighting)

CONSUMER SKILLS



Course No: 6207

Credit: .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 budgeting, credit use, investing, comparison shopping, insurance purchasing and issues related to taxes and taxation. *Student interested in taking the blended version of the class should enter a special request on the course selection worksheet.* (Level 1 Weighting)



Blended Course – combination of traditional face-to-face instruction and web-based online learning.

TECHNOLOGY EDUCATION

IMPORTANT NOTES: Conestoga Valley High School requires at least one technology education course be taken as a condition for graduation. Any of the following courses will 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. The symbol "\$" adjacent to a course title indicates a class with a lab fee. Students in the Free and Reduced Lunch program at CVHS are eligible for Free and Reduced general lab fees.

Please note that some level 2 and advanced technology education classes may now be selected as either a 1 credit (semester) or 0.5 credit (marking period) class. This allows for student flexibility in selecting technology education electives. Students may also now take level 2 or advanced technology education classes more than once in their career here at CVHS.

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 direct supervision of the teacher and pass a safety test prior to being authorized to use technology equipment. Parents and students who have questions or concerns about the use of technology equipment within these classes should contact the subject area supervisor. It is advised that students speak with their teachers or counselors to ensure they are selecting classes appropriate for their interest and age level.

CONTROL POWER TECHNOLOGY 1

Course No: 7022.05

Credit: .5

Gr. 9-12

This nine-week 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)

ENGINEERING/APPLIED TECHNOLOGY 1 (\$)**Course No: 7032.05****Credit: .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 (\$)**(Prerequisite: A grade of a "C" or higher in Engineering/Applied Technology 1)****Course No: 7033.05****Credit: .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 through 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: B or higher in Engineering or Electronics 1)****No: 7042.05 or 7402.1****Credit: .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: 7101.05****Credit: .5****Gr. 9-12**

This nine-week 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 will be asked to pay appropriate lab fees. **(Level 1 Weighting)**

WOOD TECHNOLOGY 2 (\$)**(Prerequisite: A grade of a "C" or higher in Wood 1 and/or Teacher Recommendation) Course No: 7102.05 or 7102.1****Credit: .5 or 1****Gr. 10-12**

This nine-week course is an extension of the Wood 1 course with 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 (\$)

(Prerequisite: A grade of a “C” or higher in Wood 2 and Teacher Recommendation)

Course No: 7103.05 or 7103.1

Credit: .5 or 1

Gr. 10-12

This nine-week 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 (\$)

(Prerequisite: A grade of a “B” or higher in Wood 1 and Teacher Recommendation)

Course No. 7104.05

Credit: .5

Gr. 10-12

This nine-week course will explore 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

(Prerequisite: A grade of a “C” or higher in Wood Technology 1)

Course No: 7105.05

Credit: .5

Gr. 10-12

This nine-week 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 (Formerly Plastic Technology 1) (\$)

Course No: 7305.05

Credit: 0.5

Gr. 9-12

This nine-week 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 \$20 to cover the cost of materials used in the class. **(Level 1 Weighting)**

MATERIALS PROCESSING 2 (Formerly Plastic Technology 2) (\$)

Course No: 7306.05

(Prerequisite: A grade of a “C” or higher in Plastic Technology 1 or Materials Processing 1)

Credit: 0.5

Gr. 9-12

This nine-week course is primarily a hands on lab course that involves advanced processes and project work not achieved in Materials Processing 1 (Plastic Technology 1). Assignments will 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: 7401.05****Credit: .5****Gr. 9-12**

This nine-week course will cover modules pertaining to metal manufacturing. The modules will cover 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. This course will satisfy the Technology Education graduation requirement.

(Level 1 Weighting)**METAL/MANUFACTURING TECHNOLOGY 2 (\$)****(Prerequisite: A grade of a "C" or higher in Metal/Manufacturing Technology 1)****Course No: 7402.05****Credit: .5****Gr. 10-12**

This nine-week course is a review of areas covered in Metal/Manufacturing Tech 1 with the addition of advanced demonstrations and modules in machine shop, precision measuring instruments, types of fasteners, and CNC machining. Upon completion of required work, the students will again select projects and areas 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 (\$)**(Prerequisites: Teacher Recommendation)****Course No: 7403.05****Credit: .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. It will be required that the individual develop a more complex project or pursue metals technology through research, development and experimentation. All areas may be explored. 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: 7501.05****Credit: .5****Gr. 9-12**

This nine-week 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 InDesign. 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 (\$)**(Prerequisite: A grade of a "C" or higher in Graphic Technology 1)****Course No: 7502.05 or 7502.1****Credit: .5 or 1****Gr. 10-12**

This nine-week course is an extension of Graphics Technology I. 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 (\$)**(Prerequisite: A grade of a "C" or higher in Graphic Technology 2)****Course No: 7504.05 or 7504.1****Credit: .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. They will explore 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. They will explore printing on contour 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: 7505.05****Credit: .5****Gr. 9-12**

A nine-week survey course in photography, which includes experiences using a 35 mm and digital SLR camera. Students will study in detail manual and automatic exposure, composition techniques, developing, darkroom chemistry, printing, enlarging, and the digital enhancement of photographs. Students will complete projects in action photography, depth of field, aperture, shutter, and explore the use of digital cameras in photography. Access to a 35 mm SLR camera with manual aperture and shutter speeds 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 \$20, to cover the cost of materials used in the class. This course will satisfy the Technology Education graduation requirement. **(Level 1 Weighting)**

PHOTOGRAPHY TECHNOLOGY 2 (\$)**(Prerequisite: A grade of a "C" or higher in Photography 1)****Course No: 7506.05 or 7506.1****Credit: .5 or 1****Gr. 10-12**

This course is an extension of Photography I. Students will learn how to effectively manipulate camera controls and explore advanced photography/darkroom techniques. An emphasis will be placed on photo composition in which students will study their subject matter as well as exploring unit in Night Photography and HDR (High dynamic Range). Students will continue to explore digital photography and how to effectively manipulate/enhance photos in Adobe Photoshop. Students will develop a working 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 \$20, to cover the cost of materials used in the class. **(Level 1 Weighting)**

PROJECT DESIGN**(Prerequisite: A grade of a "C" or higher in Graphics 1)****Course No: 7515.05 or 7515.1****Credit: .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 would be stock projects provided by the department or (when available) any of the projects that come into 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)**

ELECTRONICS TECHNOLOGY 1 (\$)**Course No: 7701.05****Credit: .5****Gr. 9-12**

This nine-week course is designed to allow students the opportunity to explore the field of electricity-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 a color organ or strobe light as an electronics project. Students must follow accepted safety practices and are expected to exhibit skill and craftsmanship in their work. There is a lab fee of \$25, to cover the cost of materials used in the class. This course will satisfy the Technology Education graduation requirement. **(Level 1 Weighting)**

CADD 1 (Computer Aided Drafting/Design)**Course No: 7801.05****Credit: .5****Gr. 9-12**

This nine-week 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. This course will satisfy the Technology Education graduation requirement. **(Level 1 Weighting)**

CADD 2**Course No: 7802.05****Credit: .5****Gr. 10-12****(Prerequisite: A grade of a "B" or higher in any of the following CADD 1, Applied Engineering or Architectural CAD)**

This nine-week course provides students an opportunity to expand their CADD experience in the area of 3D CADD, 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 CADD 1, Applied Engineering or Architectural CAD. 3D Computer-Aided Drafting 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)**

ARCHITECTURAL CADD**(Prerequisites: CADD 1)****Course No: 7803.05****Credit: .5****Gr. 9-12**

This nine-week course provides development of knowledge and skills in architectural drawing as related to residential home construction. Computer-Aided Drafting 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 drawing and blueprints to include a basement plan, first floor plan, wall section, plot plan elevations, and pictorial as a minimum requirement. **(Level 1 Weighting)**

ADVANCED CADD**(Prerequisites: Teacher Recommendation)****Course No: 7804.05****Credit: .5****Gr. 11-12**

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

AVIATION TECHNOLOGY (\$)**Course No: 7901.05****Credit: .5****Gr. 9-12**

This nine-week course will explore 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**(Prerequisite: A grade of a "C" or higher in Aviation Technology)****Course No: 7903.05****Credit: .5****Gr. 10-12**

This nine-week 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, on board 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 (\$)

(Prerequisite: A grade of a “C” or higher in Aviation Technology)

Course No: 7902.05

Credit: .5

Gr. 10-12

This nine-week 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 used throughout the course of the marking period. **(Level 1 Weighting)**

VIDEO PRODUCTION TECHNOLOGY 1

Course No: 7910.05

Credit: .5

Gr. 9-12

This nine-week 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

(Prerequisite: “C” or higher in Video Production Technology 1)

Course No: 7911.05 or 7911.1

Credit: .5 or 1

Gr. 10-12

This nine-week course will continue 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

(Prerequisite: A grade of a “C” or higher in Video Production 2)

Course No: 7912.05 or 7912.1

Credit: .5 or 1

Gr. 11-12

This course will allow a student 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

(Prerequisite: Teacher Recommendation)

Course No: 7914.1

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 invitation to the course. **(Level 1 Weighting)**

FAMILY AND CONSUMER SCIENCES

IMPORTANT NOTE: The symbol "\$" adjacent to a course title indicates a class with a lab fee. Students in the Free and Reduced Lunch program at CVHS are eligible for Free and Reduced general lab fees.

BASIC CULINARY ARTS (Formerly Culinary 1) (\$)

Course No: 7201

Credit: .5

Gr. 9-12

This nine-week course includes lessons in nutrition, equipment, and preparation techniques. Culinary I introduces quick and easy foods, planning meals and making healthy food choices. Students will be required to purchase a \$30 foods card.

(Level 1 Weighting)

PASTRY ARTS (Formerly Culinary 2) (\$)

Course No: 7202

Credit: .5

Gr. 10-12

This nine-week 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 purchase a \$30 foods card. **(Level 1 Weighting)**

AMERICAN CUISINE (\$)

(Prerequisite: Basic Culinary Arts or Pastry Arts)

Course No: 7208

Credit: .5

Gr. 11-12

Elect this nine-week 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 purchase a \$30 foods card. **(Level 1 Weighting)**

WORLD CUISINE (\$)

(Prerequisite: Basic Culinary Arts or Pastry Arts)

Course No: 7203

Credit: .5

Gr. 11-12

This nine-week 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 purchase a \$30 foods card. **(Level 1 Weighting)**

NUTRITION (\$)

Course No: 7204

Credit: .5

Gr. 10-12

Nutrition offers students instruction and experience in applying basic nutrition concepts. This nine-week course includes food experiments; dietary needs of athletes and of individuals on weight-control diets. This course fulfills a pathway requirement for Health/Science/Human Services and state standards for FCS. Students will be required to purchase a \$30 foods card.

(Level 1 Weighting)

NEEDLE & TEXTILE ARTS (\$)

Course No: 7205

Credit: .5

Gr. 9-12

This nine-week course gives students an opportunity to choose two major projects in the area of needlecrafts or clothing construction, participate in a community service project, and research career opportunities. Project areas include knitting, crocheting, embroidery, needlepoint, hand quilting, machine quilting, and basic clothing construction. A \$15 materials fee in addition to providing all materials for their projects. **(Level 1 Weighting)**

CHILD DEVELOPMENT 1

Course No: 7601

Credit: .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**(Prerequisite: Child Development 1 with a grade of C or above)****Course No: 7602****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. Student must be 16 years of age before October 1, 2020. **(Level 1 Weighting)**

HOUSING ISSUES**Course No: 7209****Credit: .5****Gr. 9-12**

This course provides students with all the practical tools and specific information they will need to create an exciting living space of their very own. Included in the course are the secrets of decoration, study of floor plans, color schemes and architectural design features. Focus placed on the understanding and application of the elements and principles of design. Course content also includes; housing trends, budgeting for home ownerships, and the process of renting. **(Level 1 Weighting)**

PERSONAL AND FAMILY DEVELOPMENT**Course No: 7210****Credit: .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)**

AHA HEARTSAVER CPR & FIRST AID COURSE (\$)**Course No: 7604****Credit: .5****Gr. 9-12**

The purpose of the American Heart Association Heartsaver course is to provide the student 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 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 \$35.00 course fee which includes a Laerdal pocket mask and course certification. **(Level 1 Weighting)**

MUSIC

IMPORTANT NOTES: *CVHS requires at least one music course (.5 credit) be taken as a condition for graduation. Students may fulfill their music requirement by selecting any music course or ensemble.*

INTRODUCTION TO MUSIC

Course No: 8012

Credit: .5

Grade: 9-12

Students explore various components of music through movement, performance, improvisation, composition and listening activities including contemporary and historic examples. **(Level 1 Weighting)**

CONCERT BAND

Course No: 8101.2

Credit: 1 or 2

Gr. 9-12

Requirements include preparation of assigned music, attendance at all scheduled rehearsals and performances. The course is comprehensive, to include all aspects of concert band literature. Prerequisite for the course is recommendation of middle school band director. Alternately, students may complete an audition for this class if they did not have a MS Band experience.

(Level 1 Weighting)

CHORUS

Course No: 8106

Credit: 1

Gr. 9-12

This course is open to all students who want to sing. No prior experience is needed and there is no prerequisite required for this course. Through varied repertoire and performance-based activities, students will have opportunities to collaborate, create, respond and reflect. **(Level 1 Weighting)**

CONCERT CHOIR

Course 8102.2

Credit: 1 or 2

Gr. 9 - 12

This course requires study and performance of advanced choral literature from various cultures and styles that span over five hundred years. Performances at school concerts is part of this class. Prerequisite for the course are recommendation of middle or high school chorus teacher OR completion of a chorus class with a grade of 90%. Additionally, students may complete an audition for this class if they did not have a MS or HS chorus experience. **(Level 1 Weighting)**

ORCHESTRA

Course No: 8103.2

(Prerequisite: MS Teacher Recommendation or audition)

Credit: 1 or 2

Gr. 9-12

Requirements for this course include preparation of assigned music, attendance at all scheduled rehearsals and performances. Prerequisite is recommendation of middle school Orchestra teacher. Alternately, students may complete an audition for this class if they did not have a MS Orchestra experience. **(Level 1 Weighting)**

MUSIC THEORY

(Prerequisite: A grade of a "B" or better in a music ensemble (Band, Orchestra or Chorus) or approval of the Department Supervisor.)

Course No: 8202

Credit: .5

Gr. 10-12

This course is intended for the serious music student. Students considering a career in music are encouraged to take this course. Units of study include: rhythm and meter, notation and pitch, scales and key signatures, harmony, and making music.

(Level 1 Weighting)

AP MUSIC THEORY

(Prerequisite: A grade of a "B" or better in MUSIC THEORY or proof of advanced music literacy) Course No: 8203AP

Credit: 1

Gr. 11-12

AP Music is a continuation of Music Theory. Requirements include a performance project, composition assignments, summaries of historical readings and concert attendance and review. The development of aural skills is a primary objective of this course. Preparation for the AP Music exam is also a primary focus. Students considering a career in music are encouraged to elect this course. **(Level 3 Weighting)**

AUDIO PRODUCTION**Course No: 8705****Credit: .5****Gr. 9-12**

Note: The availability of this course is pending grant funding. If funded, this course will replace Electronic Music for the 20-21 school year. If the course is not funded for the 20 - 21 school year, Electronic Music will still be offered.

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. Students will use Ableton Live and Ableton Push 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 with the possibilities of career options in the music technology field. **(Level 1 Weighting)**

ELECTRONIC MUSIC**Course No: 8206****Credit: .5****Gr: 9-12**

This course is designed to allow students to work directly with synthesizers, sequencers, and computers to experiment and create musical compositions, while studying the elements of music. This is primarily a music course and the study of electronics and acoustics is secondary. **(Level 1 Weighting)**

BEGINNER GUITAR**Course No: 8211****Credit: .5****Gr. 9-12**

Beginner Guitar is a nine-week course that 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**(Prerequisite: Passing grade in Beginner Guitar or successful placement test with the instructor) Course No: 8212****Credit: .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. The class will meet daily for nine weeks. **(Level 1 Weighting)**

ART

IMPORTANT NOTES: *Students must take at least one course in art to meet graduation requirements.*

FOUNDATIONS OF DESIGN

Course No: 8401

Credit: .5

Gr. 9–12

This is an introductory design course that fulfills the graduation requirement for art. Learning will take place through hands-on studio activities, reading, writing and discussion. Students will learn about the evolution of design, and will experience ways design directly impacts their lives. Aesthetic development, through cultural and geographic forces will be explored. **(Level 1 Weighting)**

CERAMICS 1 (\$)

Course No: 8503

Credit: .5

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: Passing grade in Ceramics 1)

Course No: 8513

Credit: .5

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 (\$)

(Prerequisites: Passing grades in Ceramics 1 and Ceramics 2)

Course No: 8523

Credit: .5

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 in 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 (\$)

Course No: 8506

Credit: .5

Gr. 9-12

This course emphasizes mixed media crafts construction. Wire, wood, fibers, yarns, paper, cardboard, plaster, paper mache, reeds, and found materials may be used. History, aesthetics and criticism are integrated with studio processes. There is a \$10 materials cost. **(Level 1 Weighting)**

TEXTILES (\$)

Course No: 8516

Credit: .5

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. There is a \$10 materials fee. **(Level 1 Weighting)**

DRAWING 1

Course No: 8501

Credit: .5

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: Passing grade in Drawing I)

Course No: 8511

Credit: .5

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 use of drawing media is achieved. History, aesthetics and criticism are integrated with studio processes. **(Level 1 Weighting)**

DRAWING 3

(Prerequisite: Passing grade in Drawing 1 and Drawing 2)

Course No: 8521

Credit: .5

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. Weekly homework assignments are a part of this course. **(Level 1 Weighting)**

PAINTING 1 (\$)

(Prerequisite: Passing grade in Foundations of Design)

Course No: 8502

Credit: .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. Students will be required to purchase a \$10 materials card. **(Level 1 Weighting)**

PAINTING 2 (\$)

(Prerequisite: Passing grades in Foundation of Design and Painting 1)

Course No: 8505

Credit: .5

Gr. 10-12

Students will continue to develop concepts and skills begun in Painting I, 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 card is required. **(Level 1 Weighting)**

PAINTING 3 (\$)

(Prerequisite: Passing grades In Painting 1 and Painting 2)

Course No: 8508

Credit: .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 student. An emphasis will be on understanding of media and the communication of idea through painted images. **(Level 1 Weighting)**

PRINTMAKING

(Prerequisite: Passing grade in Foundation of Design)

Course No: 8600

Credit: .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, collographs, linoleum prints and prints from stencils. **(Level 1 Weighting)**

SCULPTURE (\$)

(Prerequisite: Passing grade in Foundations of Design)

Course No: 8610

Credit: .5

Gr. 9-12

This is a survey course that teaches the history and methods of working with three-dimensional form. 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 material card is required.

(Level 1 Weighting)

WATERCOLOR

Course No: 8620

Credit: .5

Gr. 9-12

This course will offer students various experiences using watercolors. Students will learn color theory, techniques and use of materials. Working from direct observation will be an element of this course. History, aesthetics and criticism are integrated with studio processes. **(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-semester course that is split between junior and senior years. 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) (\$)

(Prerequisites: Passing grades in Drawing I, Painting I and a portfolio review.)

Course No: 8403A

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) (\$)

(Prerequisite: Passing grade in AP 2D Studio Art I)

Course No: 8404AP

Credit: 1

Gr.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)

PHYSICAL EDUCATION, HEALTH & DRIVER EDUCATION

PHYSICAL EDUCATION FOR CTC STUDENTS

Full-day CTC students are required to complete 1.5 credits of physical education 9th Grade PE, Foundations of Fitness (10th grade) and Foundations of Fitness (11th grade - Formerly Fitness & Weight Training).

Advanced Strength and Conditioning

Course No: 9551.1 or 9551.2

Credit: 1 or 2

Gr. 9-12

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 gain entry into the class with a required recommendation from a physical education teacher.** This class will meet every day of the 4-day cycle for 1 semester or the entire school year, earning 1-2 credits. **(Level 1 Weighting)**

9TH GRADE PHYSICAL EDUCATION

Course No: 9011

Credit: .5

Gr. 9

The 9th grade physical education 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. This course meets every cycle day for 9 weeks. **(Level 1 Weighting)**

Foundations of Fitness (10TH GRADE PHYSICAL EDUCATION)

Course No: 9035

(Prerequisite: 9th grade PE)

Credit: .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: .5

Gr. 11

This 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. This course meets every cycle day for 9 weeks. **(Level 1 Weighting)**

Foundations of Fitness (11th GRADE PHYSICAL EDUCATION)

Course No: 9035

(Prerequisite: 10th grade PE)

Credit: .5

Gr. 11

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)**

12th Grade Physical Education Electives - Please Choose One (1) of the following four options:

Foundations of Fitness 2

Course No: 9040

Prerequisite: Fitness & Weight Training

Credit: .5

Gr. 12

Foundations of Fitness II is a course 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 I. This course will meet every day for one marking period and include 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, body weight 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 the student to achieve knowledge in exercise programming and improve their current fitness level. This course meets every cycle day for 9 weeks. **(Level 1 Weighting)**

Lifetime Activities

Course No: 9503

Prerequisite: Fitness & Weight Training

Credits: .5

Gr. 12

Lifetime Activities is a course for students interested in the study and practice of leisure activities that would include, but not limited to, archery, golf, disc golf, fly fishing, GPS/ orienteering, hiking, net games, yard games, and social games. The course will meet every day for one marking period and include classroom and activity sessions. To meet fitness standards, the course will require one third of all activity sessions to involve fitness training and the remaining two thirds of the class will be dedicated to the course content. Students will learn and demonstrate understanding of game procedures, rules, ethics of game play, and how to get others involved in these activities through the development of tournaments or organization of events. This course meets every cycle day for 9 weeks. **(Level 1 Weighting)**

Competitive Games

Course No: 9504

Prerequisite: Fitness & Weight Training

Credit: .5

Gr. 12

This course focuses on lifetime activities, including team and individual sports, and selected cardiovascular fitness activities; emphasis is placed on advanced skill performance and application of strategic concepts. An emphasis on fitness development is an ongoing initiative in all PE courses. This course meets every cycle day for 9 weeks. **(Level 1 Weighting)**

Movement Exploration

Course No: 9505

Prerequisite: Fitness & Weight Training

Credit: .5

Gr. 12

Movement exploration is a course for students interested in the study and practice of mindfulness, yoga, dance, and a variety of aerobic workouts. The course will meet every day for one marking period and include 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 background, origins, and cultures each activity has stemmed from as well as the etiquette involved in the practice of each. This course meets every cycle day for 9 weeks. **(Level 1 Weighting)**

VIRTUAL DRIVE ONLINE COURSE (\$)

Virtual Drive is a new online course component in the driver education program. Virtual Drive is a Pennsylvania state-approved, 30-hour, online course recognized by most insurance companies qualifying teen drivers for a reduction in auto insurance Premiums. This programs works in conjunction with Behind-the-Wheel driving instruction. Enrollment takes place during designated periods in the fall, winter and spring and is open to CV students no sooner than 3 months before their 16th birthday. Details are available in the Attendance Office.

BEHIND-THE-WHEEL DRIVING INSTRUCTION (\$)

CVHS offers optional behind-the-wheel (BTW) driving instruction for students who have obtained their permit. This course consists of six (6) one-hour driving lessons and is arranged by appointment with certified driver education instructors. Appointments and paperwork for BTW are available through the attendance office. There is a \$200 fee for BTW. Students who qualify for the free or reduced lunch programs are eligible for discounted rates. Please note this is not a course offered for credit.

SPECIAL SERVICES

SPECIAL EDUCATION

IMPORTANT NOTES: *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 support 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 are scheduled for this course to provide services and support based on IEP goals and specially designed instructional needs.

ENGLISH AS A SECOND LANGUAGE (ESL)

ESL ENTERING/BEGINNING

(Prerequisite: Approval of ESL Supervisor and Testing Results)

Course No: 0801

Credit: 1 (English Credit Per Semester)

Gr. 9-12

Basic ESL is designed for students with no previous experience with the English language. Concentration is on basic survival English with emphasis on oral/aural language development. Students will be tested for placement in this class. ESL 1 is a year-long, two semester course.

ESL DEVELOPING 1

(Prerequisite: Approval of ESL Supervisor and Testing Results)

Course No: 0802

Credit: 1 (English Credit Per Semester)

Gr. 9-12

Listening and speaking skills continue to be developed with emphasis on pronunciation skills, grammar, and vocabulary expansion. The course will emphasize reading comprehension and writing with the goal of writing coherent sentences and paragraphs. Students will be tested for placement in this class. ESL 2 is a year-long, two semester course.

ESL DEVELOPING 2

(Prerequisite: Approval of ESL Supervisor and Testing Results)

Course No: 0803

Credit: 1 (English Credit Per Semester)

Gr. 9-12

Listening and speaking skills continue to be developed with emphasis on pronunciation skills, grammar, and vocabulary expansion. The course will emphasize reading comprehension and writing practice with the goal of writing coherent sentences and paragraphs. Students will be tested for placement in this class. ESL 3 is a year-long, two semester course.

ESL BRIDGING/EXPANDING

(Prerequisite: Approval of ESL Supervisor and Testing Results)

Course No: 1713

Credit: 1 (English Credit Per Semester)

Gr. 9-12

The intent of this course is to provide non-native English speakers the opportunity to develop strategies for improving their reading and writing skills. The course will emphasize reading comprehension and responding, both orally and in writing, to various genres of multi-cultural literature including short stories, novels, drama, and poetry. Students will increase written communication skills, reading comprehension and fluency, vocabulary, and the ability to infer meaning from context. Active participation in this course will utilize higher order thinking skills and enable students to apply reading and writing strategies to ensure success in all content areas. This is a year-long, two semester course.

ESL ELECTIVES

IMPORTANT NOTE: The following courses are ESL electives. They do not fulfill the requirements of passing English 1, 2, 3, and 4 for graduation. They may be counted as elective credits required for graduation.

ESL ACADEMIC VOCABULARY

(Prerequisite: recommendation by ESL teacher and ESL supervisor)

Course No: 0805

Credit: 1 (Elective credit)

Gr. 9-12

This course is designed for non-native *Entering, Beginning, Developing* ESL students who have a limited vocabulary in English. The course will concentrate on building academic vocabulary, with emphasis on learning key words and concepts for core content subjects. Instruction will also focus on word roots, prefixes and suffixes. The goal is for students to be able to understand and use the content area vocabulary words that are essential to academic success. This is a year-long, 45 minute (half block) course.

ESL STUDY SKILLS

(Prerequisite: recommendation by ESL teacher and ESL supervisor)

Course No: 0806

Credit: 1 (Elective credit)

Gr. 9-12

This is designed for ESL students with more advanced language levels. The course would provide skills such as organization, prioritization, note-taking, test preparation, research, computer skills, maximizing school resources and other related topics. Improvement of public speaking skills and presentations will also be taught in detail. This is a semester-long class that meets for one block per day.

EXPANDED LEARNING COURSES AND OPPORTUNITIES

HONORS SAGE

Course No: 0311H.5

Credit: .5 (1 QUARTER LONG)

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

Course No: 0310H-MT

Credit: 1 (FALL SEMESTER EACH YEAR)

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 in the Fall Semester each year, with evening practices from November –March during the competition season. **(Level 2 Weighting)**

DUAL E-Right Start to Post-Secondary Education

Course No: 0312H

Credit: 1

Gr. 10-12

This course focuses on helping students prepare for their next steps in life after high school. Need help navigating the college and financial aid process? This course is for you! Topics include college study skills, writing their college application and scholarship essays, understanding financial aid, creating successful college applications, transferrable skills, career research, resume and cover letter writing, interviewing, and networking skills. The class will also cover financial planning topics, including investments, insurance, mortgages, and saving for retirement. **(Level 3 Weighting)**

INDEPENDENT STUDY

A student may select an area of study to pursue independently of traditional classroom environment with approval from respective supervisor, principal, and parent. Students may request independent study for any course extensions of a course, which they are not able to schedule because of a conflict with the meeting time. Student may earn a letter grade or an O, S, or U. This grade is determined by the teacher and Subject Area Supervisor. Note: There is a maximum of 2 credits per year earned in this category unless otherwise noted.

WORK EXPERIENCE (Maximum of 4 Credits: 2 Per Semester)

Course No: 0132	Credits: 4	Gr. 12	Course No. 0132C	Credit: .5	Gr. 12
Course No: 0132A	Credits: 2	Gr. 12	Course No. 0132D	Credit: .25	Gr. 12
Course No: 0132B	Credit: 1	Gr. 12	Course No. 0132E	Credits: 3	Gr. 12

Students may earn high school credit through Work Experience opportunities. Students participating in this program will schedule work hours to coincide with "Work Experience" on their class schedules. They will make arrangements for their own employment, and a current list of job opportunities is maintained in the Career Center. Students must remain in satisfactory academic standing, and must have official working papers on file (see Mrs. McDaniel in the Career Center). See your Guidance Counselor or Mrs. Shady for additional guidelines.

INTERNSHIP (Off-Campus) (Students could earn 4 Credits Per Year, but more credits may be earned with approval from administrator and internship coordinator permission)

Course No: 0320B	Credits: .25	Gr. 11-12
Course No: 0320	Credit: 1	Gr. 11-12
Course No: 0320A	Credit: .5	Gr. 11-12

Internship opportunities are available to juniors and seniors (and to 9th or 10th students with administrative permission) who wish to benefit from early experiences in their chosen career. These experiences can be paid or unpaid. Internship placements are selected through collaboration between the Internship Coordinator and student. A grade will be awarded based upon the evaluation of the site supervisor. Students will receive an internship packet that includes an internship contract along with all program details and responsibilities. Other types of Internships available within the school include:

ON-CAMPUS INTERNSHIP (Teacher Assistant) - These internships are for aspiring educators and students interested in various subject areas. Activities involve preparing sample lessons, reinforcing activities and reviewing material with students one-on-one or in small groups. Teacher assistants may also assist with various classroom management duties such as making copies and organizing classroom materials.

COLLEGE ENRICHMENT

Courses are available at local colleges for juniors and seniors during the high school academic year and the summer. Students must obtain permission from high school administration prior to enrolling in a college course and must be on track to meet all Conestoga Valley graduation requirements. Information is available in the Counseling Office or through the teacher of the gifted students' program. Only college courses considered to be a part of dual enrollment agreements between CVHS and the college or university will appear on the student's official transcript.

DUAL ENROLLMENT (Prior Approval by Principal and/or Counselor)

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. **Students are responsible for transportation and costs of tuition for dual enrollment courses.** Tuition costs are established by the collaborating college or university. The Counseling Office has all up-to-date tuition information. [A complete list of cooperating colleges and universities offering dual enrollment credit with Conestoga Valley High School is available on the high school website under For Students Toolbar > Academic Planning.](#)

- Students receive one (1) CVHS credit for each three (3) credit (or more) dual enrollment college course completed.
- **Class of 2021 & 2022** students are limited to nine (9) approved dual enrollment/college credits a semester and a total of 12 dual enrollment/college credits throughout his/her high school years. Students reaching the dual enrollment/college credit limit may take additional dual enrollment courses with unweighted credit to replace high school elective options. As a standard practice, students are scheduled for five (5) high school credits per semester or a total of ten (10) credits per school year. Students are encouraged to meet with their school counselor to detail their plan.
- **Beginning with the Class of 2023 and beyond**, students are not limited to the number of approved dual enrollment/college credits taken during their high school years.
- **Beginning with the Class of 2023 and beyond**, 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 a student's school counselor.

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

- Student is a high school junior or senior (sophomores may take CHS U.S. History 2).
- Student is making satisfactory progress toward fulfilling graduation requirements as determined by the school district.
- The student demonstrated 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. Students should talk to their school counselor for additional information.

NOTICE: Students requesting to take summer college course work aligned with CVHS's dual enrollment policies must obtain pre-approval from their school counselor or administrator. Please visit www.conestogavalley.org/dualenrollment for more information.

CAREER AND TECHNOLOGY EDUCATION

FULL DAY PROGRAM CAREER AND TECHNOLOGY CENTER (CTC)
Credits: 10 (special circumstances may vary)

Course No: 0242
Gr. 12

HALF-DAY CLUSTER PROGRAM
Credits: 5

Course No: 0222
Gr. 10-11

The Lancaster CTC provides a unique opportunity for hands on skills training combined with academic learning in a wide variety of vocational programs. Students who elect to attend CTC during their senior year will have Social Studies and Physical Education requirements waived for that year only. They must have accumulated a total of 20 credits. Juniors who attend will take a total of four credits at CV (English, Math, Physical Education, Health and either Social Studies or Science), and four credits at CTC. Lancaster County's Career and Technology Centers have created partnerships with area colleges that enable our students to earn college credits while still in high school and meet new rigorous standards for senior year math & English courses.

A more detailed explanation of CTC program offerings and the new dual enrollment program follow. See your counselor or Mrs. Shady to review your transcript and eligibility, and to obtain an application and description of course offerings.

EARLY COMPLETION/EARLY GRADUATION PROGRAM

Eligible Conestoga Valley High School juniors and seniors may, upon the recommendation of their counselor, petition the high school administration to participate in the Early Graduation or Early Completion Programs. Students interested in these options must begin by consulting with their school counselor. Descriptions of these programs are below.

EARLY GRADUATION - Seniors

A student meeting all graduation requirements may elect to graduate early at the end of the first term with the approval of the administration. Early graduation students will be given his/her high school diploma, listed as a high school graduate, and are no longer participants in the high school academic or extracurricular programs (e.g. clubs, sports, prom, etc.). 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.

EARLY GRADUATION - Juniors

A student meeting all graduation requirements may elect to graduate early at the end of his/her junior year with the approval of the administration. The student will be given his/her high school diploma and is eligible to participate in the school's commencement ceremony in June. The student will be listed as a high school graduate and is no longer eligible to participate in high school academic or extracurricular programs (e.g. clubs, sports, prom, etc.). 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.

EARLY COMPLETION - Seniors only

A 12th grade student meeting all graduation requirements may elect to fulfill required courses at the end of the first term with the approval of the administration. The student will be given his/her high school diploma in June at the school's commencement ceremony. Any student electing this option may choose to participate in a college early entry program and complete college courses during the second term. The student will be coded as, "Transfer to Private/Nonpublic or Post-Secondary Education (WD03)" for the second term and will be permitted to return for commencement rehearsal and participate in the commencement ceremony under the code, "Student Returns to CVSD in Same Sy (E01)." College courses taken during the spring term will not be added to the high school transcript and no financial aid is available for college tuition, books and fees. All college expenses and transportation will be the responsibility of the student. Any student electing to be an early completer may not participate in school extracurricular activities (e.g. clubs, sports, prom, etc.) with the exception of school service groups such as student council, National Honor Society and Tri-M Music Honor Society.

CONESTOGA VALLEY VIRTUAL ACADEMY

CVHS has several options for meeting graduation requirements through online learning; either full-time as a student in our Conestoga Valley Virtual Academy (CVVA) program or through a more blended schedule. Additional information regarding CVHS online learning opportunities is available to students on our website. See school counselors for more details.

CVVA EXCLUSIVE COURSES

CVVA CAREERS IN THE ARTS

Course No: CVVA1049.05

Credit: .5

Gr. 9-12

This introductory course provides comprehensive information on four separate areas of arts and communications as educational and career pathways. Students who are interested in careers theater, journalism, visual arts, and communications will gain a useful perspective on industry terminology, technology, work environment, and guiding principles.

CVVA MEDIA STUDIES EXPLORATION

Course No: CVVA1048.05

Credit: .5

Gr. 9-12

This course is part of a worldwide educational movement called media literacy. The goal of the media literacy movement is to educate people about how the media impacts both individuals and society. Students will examine media such as magazines, the Internet, video games, and movies. They'll learn the kinds of strategies that advertisers use to persuade people to buy products. They'll also explore how news broadcasters choose which stories to air. Lessons and projects encourage students to examine ways in which media helps shape our culture and how our culture shapes the media. While many media literacy courses focus on learning how to make media, this one will focus exclusively on analyzing the media.

CVVA INTRODUCTION TO HUMANITIES

Course No: CVVA1440.05

Credit: .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 respond to course assignments critically and creatively. This course is a 9-week course and fulfills an elective course option.

CVVA CIVIL WAR

Course No: CVVA2230

Credit: .5

Gr. 9-12

Students will embark on the fascinating history of the Civil War. It is a story of human choices that linked the past to the present and influenced the future. It is a drama of how one nation changed through times of conflict and cooperation. It is a tale of two children (the North and South) living under the same roof (The United States) and how they disagreed over the issues of states' rights and slavery.

CVVA WORLD GEOGRAPHY

Course No: CVVA2215

Credit: 1.0

Gr. 9-12

World Geography takes students on a journey around the world in which they will learn about the physical and human geography of various regions. They will study the history of each region and examine the political, economic, and cultural characteristics of the world in which we live. Students will also learn about the tools and technologies of geography such as globes, maps, charts, and global information systems.

CVVA ENVIRONMENTAL SCIENCE

Course No: CVVA3222.05

(Prerequisite: Successful completion of Biology)

Gr. 11-12

Credit: .5

Environmental Science is an interdisciplinary course covering a wide variety of topics including biology, physics, geology, ecology, chemistry, geography, astronomy, meteorology, oceanography, and engineering. The course will investigate scientific principles, concepts, and methodologies required to understand the interrelationships in the natural world. Students will investigate how the non-living things in the environment influence the plants and animals that can be found in our world. Students will also identify and analyze environmental problems that are both natural and human-made. 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.

CVVA CHEMISTRY IN THE KITCHEN

Course No: CVVA3100.05

Credit: .5

Gr. 10-12

Become a better cook by understanding the principles behind cooking. This nine-week course will allow 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

CVVA INTRODUCTION TO COMPUTER SCIENCE 1**Course No: CVVA4122.1****Credit: 1.0****Gr. 10-12**

Computer Science and computational problem solving are fundamental skills that are useful in many career paths. This course explores these concepts through the Python programming language using a graphics platform. It is designed with interesting problems to solve that are fun and engaging. The graphical platform allows for multiple correct solutions and provides visual cues when a solution does not work. Each unit provides content for the topic to be investigated, a worked problem(s) to illustrate and let students explore the topic, a set of exercises to hone their mastery of the topic, some end-of-unit exercises that require students to use and synthesize all the topics found in that Unit, and a creative task that lets them further explore the topics in the Unit in a manner driven by their interests.

CVVA INTRODUCTION TO COMPUTER SCIENCE 2 (SPRING SEMESTER ONLY)**Course No: CVVA4222.1****Credit: 1.0****Gr. 10-12**

This course is a continuation of Introduction to Computer Science 1 and introduces more advanced Python programming. Students must successfully complete the entire Introduction to Computer Science 1 course to take this course.

CVVA INTRODUCTION TO STATISTICS**Course No: CVVA4840.05****Credit: .5****Gr. 11-12**

Introduction to Statistics is designed to give 11th- and 12th-grade students an overview of basic concepts of statistics, with an emphasis on descriptive statistics. The semester begins with the key concepts of data, samples, and populations. Students will create visual representations of data sets, such as histograms and bar graphs. Students will describe the central tendency and spread of data for a data set. Students will look for patterns in a data set and determine models based on those patterns.

CVVA DIGITAL MEDIA**Course No: CVVA7915.05****Credit: .5****Gr. 9-12**

This nine-week course will focus on the skills and concepts commonly used in Video Production. Video production is a fast-growing field that utilizes a great deal of technology. In today's world videos are used everywhere. They are used for training, education, information, are imbedded in websites, shared through email and texts, and the list goes on and on. This course is designed to expose and prepare students to better understand storytelling through a digital media platform. This will be an entirely online course that will fulfill the high school Tech Ed requirement. Students who are interested in video editing, filming, photography, digital media, storytelling, and visual arts will benefit from this course. **(Level 1 Weighting)**

CVVA EXPLORATION OF PHOTOGRAPHY**Course No: CVVA7715.05****Credit: .5****Gr. 9-12**

CVVA Exploration of Photography is a marking period elective intended as a practical, hands-on guide to help you understand the skills required to achieve success in photography. This course will cover various topics in photography, such as history of photography, types of photography, types of camera, camera support equipment, types of camera lenses, exposure, lighting setups, rules of composition, color photography, storing and manipulating images, and printing photos.

CVVA EXPLORATION OF AUDIO/VIDEO TECHNOLOGY**Course No: CVVA7815.05****Credit: .5****Gr. 9-12**

This course discusses careers in audio/visual (A/V) technology and film, and provides students with background about the required skills, education, equipment, and technology in this industry. Students will understand the collaborative team effort of many different professionals who make films, videos, audio, and TV programming. The course begins with an introduction to the history and development of A/V technology and film, with subsequent units focusing on specific sectors of the industry and the stages for producing film and media. The concluding unit focuses on the finishing stages for exhibition, distribution, and reaching a market. In addition, the course will provide information about many different careers that are available to students who are interested in A/V technology and film.

CVVA BEGINNING GUITAR**Course No: CVVA8211.05****Credit: .5****Gr. 9-12**

Beginning Guitar 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 and will aid in sharpening musicianship skills.

CVVA INTERMEDIATE GUITAR**Course No: CVVA8212.05****Credit: .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.

CVVA ART & ACTION**Course No: CVVA8720.05****Credit: .5****Gr. 9-12**

This course explores the idea of visual perception and help you to become an intelligent observer and identify the role of the artist. It combines art history with the exploration of ideas and process. There will be opportunities for growth in aesthetics, appreciation, personal expression as well as art making.

CVVA ART from the ground UP**Course No: CVVA8820.05****Credit: .5****Gr. 10-12**

This course is designed to explore the idea that since the beginning of time humans had the impulse to appreciate and/or create art. The art created by societies both ancient and primitive civilizations, folk art, various classified untrained contemporary art display the intrinsic need for artmaking and enjoyment. Art expresses cultural identity by conveying shared community values and aesthetics. The work encompasses a range of utilitarian and decorative media. This course will explore the meaning, methods, cultural impact, location, materials, process, symbolism, purpose of art created by these artists.

CVVA INTRODUCTION TO ALLIED HEALTH CAREERS**Course No: CVVA9222.05****Credit: .5****Gr. 10-12**

This marking period course is an introduction to careers in the Allied Health field, which is defined as the area of healthcare that works together to support patients and provide services other than those provided by doctors, dentists and nurses. Students will explore various careers in the fields of First Responders, Medical Arts, Exercise Science, Health Administration, Genetic Counseling and Dietetics.

CVVA INTRODUCTION TO HEALTH SCIENCE CAREERS**Course No: CVVA9322.05****Credit: .5****Gr. 10-12**

This marking period course reviews the history and advances in medicine. Topics also include effective communication strategies and teamwork in the health care environment as well as privacy, ethics and safety issues in the field. Students will also be introduced to the importance of being a lifelong learner in the field including academic preparations for the field, licensure and certifications, and finding the right school and career suitable for them.