CHARTIERSVALLEYSCHOOL DISTRICTInspiring excellence.



Chartiers Valley High School



Mission Statement

The mission of the Chartiers Valley School District, a community dedicated to shared leadership, is to graduate students who achieve personal success by providing an exceptional academic foundation in a safe, nurturing environment that inspires creativity and innovation while embracing diversity.

Vision Statement

We will inspire excellence in instruction, learning and innovation to prepare our students to achieve personal success.

Core Values

- 1. Demonstrate genuine care, concern and fondness for students
- 2. Adopt an education-centered focus where students come first, followed closely by the needs of their parents
- 3. Develop and nurture healthy, productive and cooperative relationships with colleagues
- 4. Communicate regularly and clearly with students, their families and the community
- 5. Create and cultivate a district-wide Learning Community where all employees and educators are valued
- 6. Encourage innovation and creativity
- 7. Embrace community and regional partnerships.
 - School Colors: Red & Blue
 Motto: Character, Virtue, Honor and Scholarship
 Mascot: Colt

<u>Alma Matter</u>

Glorious things of thee are spoken, Home of the red and blue. N'er to fail and 'ere to conquer, To thy name we'll always be true. Spirits lasting thro' the ages, Never ceasing to proclaim. Chartiers Valley, now we praise thee, And may we ever cherish thy name.

(Words by the Chartiers Valley High School's Chapter of the National Honor Society)

Chartiers Valley High School Program of Studies - 2020-2021 <u>Back to Top</u> <u>Back to</u>

Back to Course List





*Click on the section title to go to that section

Graduation Requirements Graduation Credit Planner	4
Craduation Cradit Planner	÷
Graduation Credit Flariner	5
Keystone Requirements	6
Daily Schedules	7
Student Services	Page 8
Scheduling & Course Request Procedures	8
How to Request Courses	8
Scheduling Considerations	9
Schedule Change Requests	9
Withdrawal from a Course	9
Course Waivers	9
Cancelled Courses	9
Career Exploration & Student Portfolios	10
Advisory Program	10
Naviance Student	11
Grading and Reporting of Progress	Page 12
Grade Reporting	12
Grade Calculation	12
Grading Scale	12
Weighted Courses	13
Online Tools (Infinite Campus & Schoology)	14
Appeal of Grade	14
<u>Homework</u>	15
Class Participation	15
Absence from Class	15
Class Rank and Commencement (Class of 2023)	15
<u>Class Rank (2020, 2021, & 2022 Classes only)</u>	15
Engineering Academy	Page 16
Engineering Academy Requirements	16
Engineering Academy Certificates	17
Departments and Courses	Page 18
Complete Course Listing by Department	18
Applied Engineering & Technology (AET)	21
Art	27
Business	31
Career & Community Learning Opportunities	34

Computer Science	35
English	38
Family & Consumer Science	45
Mathematics	47
Performing Arts	51
Physical Education	57
<u>Science</u>	59
Social Studies	65
World Languages	70
Parkway West Career & Technical Center	74

The Chartiers Valley School District does not discriminate on the basis of race, sex, religion, handicap, national origin, or marital status, as required by Title VI of the 1964 Civil Rights Act, Title IX of the 1972 Education Amendments, and Section 504 Regulations of the 1973 Rehabilitation Act.

(Go to Course Lists)





Graduation Requirements (Back to Menu) (Go to Course Lists)

Minimum Requirements		
At a minimum, each student is required to successfully complete the following:		
English	4 Credits	
Mathematics	3 Credits	
Science	3 Credits	
Social Studies	3 Credits	
Physical Education	1 Credit (.25 per year)	
Health	1 Credit (.5 in 9 th and 10 th grades)	
Arts & Humanities Electives	3 Credits	
Electives	9 (7 required starting with class of 2023)	
Advisory	1 Credit (.25 per year)	
26 Credits are required for graduation beginning with the Class of 2023		
28 Credits are required for graduation for Classes 2020, 2021 & 2022		

**Computer Science courses, with the exception of CiHS Cybersecurity & the Law and Game Design Triad, may count as a math or science credit.

The requirements mandated for graduation may change based on the Pennsylvania Department of Education's rules and regulations.

Typical Units	<u>of Study</u>	Typical Promotion
9th grade	8.00 credits (includes 0.25 Advisory units)	6.25 credits
10th grade	8.00 credits (includes 0.25 Advisory units)	12.75 credits
11th grade	7.50 credits (includes 0.25 Advisory units)	19.25 credits
12th grade	7.50 credits (includes 0.25 Advisory units)	28.00 credits

One credit is earned by successfully completing a course that meets at least one period per day, five days per week. The minimum school-year load is *seven* subjects plus physical education.

It is a student's responsibility to know the requirements for promotion and graduation and to make plans accordingly. Additionally, students must keep their parents/guardians informed of progress toward graduation. School counselors are available to assist students and parents. No student who has completed the requirements for graduation shall be denied a diploma as a disciplinary measure but he or she may be denied participation in the ceremony of graduation when personal conduct so warrants. Such exclusion shall be regarded as a school suspension.

Community Service Credit

- 1. Students may earn one (1) Community Service Elective credit by completing an additional 120 hours of community service or a total of 150 hours (30 required plus 120 additional hours) over four (4) years.
- 2. Students deficient in credit(s) for graduation may obtain one (1) Community Service Elective credit by completing a minimum of 120 hours within one (1) calendar year.

Students may use the chart below to plan to meet the required credits for graduation and the elective courses that will help them reach their career goals.

Course/Credits Required	9 th	10 th	11 th	12 th
English (4)				
Math (3)				
Social Studies (3)				
Science (3)				
Health (1)				
$(.5 - 9^{th} .5 - 10^{th})$				
<i>Physical Education (1)</i>				
(.25 per year 9-12)				
Arts & Humanities (3)				
Electives (9)				
Advisory (1)				
(.25 per year 9-12)				
Total Required (28)				

Graduation Credit Planner (2021, 2022)

Graduation Credit Planner (2023 and beyond)

Course/Credits Required	9th	10 th	11 th	12 th
English (4)				
Math (3)				
Social Studies (3)				
Science (3)				
Health (1) (.5 - 9 th .5 - 10 th)				
Physical Education (1) (.25 per year 9-12)				
Arts & Humanities (3)				
Electives (7)				
Advisory (1) (.25 per year 9-12)				

Chartiers Valley High School Program of Studies - 2020-2021

Total Required (26)				
Keystone Graduatio	n Requirements	(Back to Menu)	(Go to Course)	Lists)

In October of 2018, the Pennsylvania requirement that all students must obtain a proficient or advanced score on each of the three Keystone Exams (Algebra 1, Biology & Literature) <u>was removed</u>.

The class of 2021 will have no Keystone requirement in order to graduate. Students in the class of 2021 will need only to meet Chartiers Valley High School graduation requirements.

Beginning in the 2021-22 school year, a <u>new statewide graduation requirement</u> will apply in addition to the Chartiers Valley High School graduation requirements. The new Pennsylvania graduation requirements provide <u>five alternative pathways</u> for high school students to demonstrate readiness for postsecondary success.

- Scoring proficient or advanced on each Keystone Exam Algebra I, Literature, and Biology.
- Earning a satisfactory composite score on the Algebra I, Literature, and Biology Keystone Exams. The passing composite score will be available in August 2019.
- Earning a passing grade on the courses associated with each Keystone Exam, and satisfactorily complete one of the following: an alternative assessment (SAT, PSAT, ACT, ASVAB, Gold Level ACT WorkKeys), advanced coursework (AP, IB, concurrent enrollment courses), pre-apprenticeship, or acceptance in a 4-year nonprofit institution of higher education for college-level coursework.
- Earning a passing grade on the courses associated with each Keystone Exam, and pass the National Occupational Competency Testing Institute (NOCTI) or the National Institute of Metalworking Skills (NIMS) assessment in an approved Career and Technical Education concentration.
- Earning a passing grade on the courses associated with each Keystone Exam, and demonstrate readiness for postsecondary engagement through three pieces of evidence from the student's career portfolio aligned to student goals and career plan. Examples of evidence will include ACT, WorkKeys, SAT Subject tests, AP, IB and concurrent coursework, higher education acceptance, community learning project, completion of an internship, externship or co-op or full-time employment.

It is important to remember that Keystone Exams are the statewide assessment that Pennsylvania uses to comply with accountability requirements in the federal Every Student Succeeds Act (ESSA). Chartiers Valley School District is still expected to achieve 95 percent participation on its statewide exams.

(Go to Course Lists)

Daily Schedules (Back to Menu) (Go to Course Lists)

Daily Schedule			
Homeroom	7:35 – 7:49		
Pass	7:49 – 7:53		
Period 1	7:53 – 8:34		
Pass	8:34 - 8:38		
Period 2	8:38 – 9:19		
Pass	9:19 – 9:23		
Period 3	9:23 - 10:04		
Pass	10:04 - 10:08		
Period 4	10:08 - 10:49		
Pass	10:49 – 10:53		
Period 5	10:53 – 11:34		
Pass	11:34 - 11:38		
Period 6	11:38 - 12:19		
Pass	12:19 – 12:23		
Period 7	12:23 – 1:04		
Pass	1:04 - 1:08		
Period 8	1:08 – 1:49		
Pass	1:49 – 1:53		
Period 9	1:53 – 2:34		
Dismissal	2:34		
Bus Departure	2:40		

Pep Assembly Schedule

Pep Assembly Schedule		
Homeroom	7:35-7:40	
Pass	7:40-7:44	
Period 1	7:44-8:23	
Pass	8:23-8:27	
Period 2	8:27-9:06	
Pass	9:06-9:10	
Period 3	9:10-9:49	
Pass	9:49-9:53	
Period 4	9:53-10:32	
Pass	10:32-10:36	
Period 5	10:36-11:15	
Pass	11:15-11:19	
Period 6	11:19-11:58	
Pass	11:58-12:02	
Period 7	12:02-12:41	
Pass	12:41-12:45	
Period 8	12:45-1:19	
Pass	1:19-1:23	
Period 9	1:23-2:03	
Assembly	2:03-2:34	
Bus Departure	2:40	

Advisory Schedule			
Homeroom	7:35 – 7:40		
Pass	7:40 – 7:44		
Period 1	7:44 – 8:22		
Pass	8:22 - 8:26		
Period 2	8:26 - 9:04		
Pass	9:04 - 9:08		
ADVISORY	9:08 - 9:46		
Pass	9:46 – 9:50		
Period 3	9:50 - 10:28		
Pass	10:28 - 10:32		
Period 4	10:32 - 11:09		
Pass	11:09 - 11:13		
Period 5	11:13 - 11:50		
Pass	11:50 - 11:54		
Period 6	11:54 – 12:31		
Pass	12:31 – 12:35		
Period 7	12:35 – 1:12		
Pass	1:12 - 1:16		
Period 8	1:16 – 1:53		
Pass	1:53 – 1:57		
Period 9	1:57 – 2:34		

Two-Hour Delay Schedule

I wo-mour Deray Schedule		
Homeroom	9:35 – 9:40	
Pass	9:40 - 9:43	
Period 1	9:43 – 10:12	
Pass	10:12 - 10:15	
Period 2	10:15 – 10:44	
Pass	10:44 - 10:47	
Period 3	10:47 – 11:16	
Pass	11:16 - 11:19	
Period 4	11:19 – 11:48	
Pass	11:48 - 11:51	
Period 5	11:51 – 12:21	
Pass	12:21 - 12:24	
Period 6	12:24 – 12:54	
Pass	12:54 – 12:57	
Period 7	12:57 – 1:27	
Pass	1:27 – 1:30	
Period 8	1:30 – 2:00	
Pass	2:00 - 2:04	
Period 9	2:04 – 2:34	
Dismissal	2:34	
Bus Departure	2:40	





School Counseling Department

Resources offered by School Counselors can be found at: <u>https://hs.cvsd.net/</u> "Services" then "School Counselors"

Chartiers Valley High School Counselors are available to provide all students with academic, personal, social, career, and college/post secondary resources and guidance through a comprehensive school counseling program.

Mrs. Lesley Kunkel, Counselor last names A - F	412.429.2268	<u>lkunkel@cvsd.net</u>
Mrs. Leah O'Malley, Counselor last names G - N	412.429.2629	<u>lomalley@cvsd.net</u>
Mrs. Danyelle Boyd, Counselor last names O - Z	412.429.2271	<u>dboyd@cvsd.net</u>
Ms. Melissa Demchak, Social Worker	412.429.7036	<u>mdemchak@cvsd.net</u>
Mrs. Tara Barker, Secretary	412.429.2270	<u>tbarker@cvsd.net</u>
Ms. Molly Clokey, Secretary	412.429.2622	<u>mclokey@cvsd.net</u>

Scheduling & Course Request Procedures (Back to Menu) (Go to Course Lists)

Scheduling for the following school year is completed early in the second semester. Current students (including incoming freshmen) will complete course requests utilizing the online Program of Studies and Infinite Campus course registration feature. All students are required to submit a signed course request summary form.

How to Request Courses

- Log in to Infinite Campus account using the student log-in and password.
- Select Course Registration option from the navigation pane on the left of the screen.
- Select Course Search can be searched by the course name or by the course number.
- To request this course as part of the schedule for next year, click the Request as Elective
- Courses can also be requested as Alternates. Students are required to select 3 Alternates
- Select a Physical Education/ Dance course Request as Elective
- When finished, Print Request Summary
- Parent/Guardian must sign and date the printed request summary prior to the student's scheduling meeting with their school counselor.

Students may submit changes to their requests, using the Request Change form, until April 3, 2020.

Students and parents have the opportunity to discuss scheduling with school counselors during classroom sessions and parent events. School Counselors will work with their students to resolve scheduling conflicts prior to the start of the school year.

(Go to Course Lists)

<u>Scheduling Considerations (Back to Menu)</u> (Go to Course Lists)

Students and parents are encouraged to become familiar with course descriptions found in the Program of Studies. The student's academic performance, interests, aptitude and ability should also be considered.

- Students must select and carry a minimum of seven subjects plus physical education.
- Courses will be scheduled once during the school year; students are advised to select courses carefully.
- Students must choose courses that meet the graduation requirements.
- In selecting subjects that are continuous in nature, a typical minimum grade of 75% in the previous course is required.
- English and physical education must be scheduled each year. English requirements cannot be met in advance by taking more than one English course during a year. However, students may choose to carry an additional English course as an elective. Only students who have failed physical education will be scheduled for more than the required number of physical education classes per week.
- Students who fail courses that are required for graduation are strongly encouraged to attend summer school or they may risk delaying graduation.
- Requests for specific teachers, classes, lunch periods, or similar requests will not be approved.
- Please contact your school counselor if additional supports are needed.

Schedule Change Requests

Changes may be granted *if*...

- A system scheduling error has occurred.
- Student failed a course, needs to repeat it, and the change did not occur.
- Student desires to add an elective (if seat is available) in the place of a study hall (same period).
- There is an error in the schedule that affects graduation requirements.

No changes will be made after the first five (5) days of the school year. Schedule changes will not be granted based on lunch, time/period, or teacher preference. Changes are not guaranteed and must be approved by the principal.

Withdrawal from a Course

- Students will be required to meet with their school counselor at the time of the request to discuss and design an intervention plan to be followed for a period of time before a withdraw/fail grade is approved by the principal.
- Withdrawal from a course after the 5th school day will result in a "WF" withdrawal fail course grade on the report card and transcript.
- "WF" will have a negative impact on the student's GPA/rank.

Course Waivers

A course waiver can be requested by a parent/student who does not qualify and is not recommended for a course. The deadline to request a waiver is April 3, 2020. A meeting with a building principal to review the student's academic history will be required prior to the waiver being approved and applied to the student's schedule.

Cancelled Courses (Back to Menu) (Go to Course Lists)

The courses available during student registration are not guaranteed to be offered during the following school year. Specifically, factors such as school resources and lack of student demand for a particular course may result in the cancellation of a course. Any course with fewer than sixteen registered students will be evaluated to determine if the course will be offered.

Chartiers Valley High School Program of Studies - 2020-2021

Career Exploration and Student Portfolios (Back to Menu) (Go to Course Lists)

The Pennsylvania Department of Education requires schools to ensure that students have access to career exploration and preparation activities based on the Pennsylvania Academic Standards for Career Education and Work. The career activities span the length of each student's academic career and will be tracked through a comprehensive career portfolio.

The Pennsylvania Department of Education requires all students to have an individualized, comprehensive career portfolio guided by career exploration and preparation activities that are standards-aligned (PDE - Academic Standards for Career Education and Work).

These standards address Career Awareness and Preparation, Career Acquisition, Career Retention and Advancement, and Entrepreneurship. Grade-level designed lessons are facilitated by school counselors, English and Social Studies projects/assignments, and student participation in the Advisory Program. Student activities and documents are saved in *Naviance Student*.

By the end of 11th grade, every student must have a career portfolio containing:

- Career exploration evidence required from K-8 grade
- Eight additional pieces of evidence collected during the 9-11 grade span.
- At least two pieces of evidence 9-11 grade showing implementation of the student's individualized career plan

Activities can be facilitated by school counselors and teachers, during the Advisory Program, or integrated within class lessons. High School students will maintain required evidence in *Naviance Student*.

Below are the scheduled lessons and activities completed at each grade level. Additional activities may be added as appropriate.

Grade 9	Grade 10	Grade 11	Grade 12
Financial Literacy	Job Searching & Interviewing	College or Alternative Scavenger Hunt	Job Interviewing, Resume Review and Mock Interviews
Personality Type and Career Exploration	Financial Literacy	Local Career Opportunities	Financial Literacy
Intro to Resumes	Career Clusters	Resume Writing Review	
Parkway West CTC Informational Presentation	Roadtrip Nation Career Exploration	Career Relocation Project	
Entrepreneurship	Career Interest Inventory		
Career Interview	Career Research Paper		

Advisory Program (Back to Menu) (Go to Course Lists)

High school students are assigned to a small group "Advisory" led by a teacher. Advisory groups meet once per month using an alternative bell schedule; student participation and attendance is expected.

Advisory lessons cover a variety of topics including career exploration, post-secondary planning, and financial literacy.

Naviance Student (Back to Menu) (Go to Course Lists)

Naviance is an online portfolio that helps students plan and organize high school goals, research colleges, explore careers, and keep track of the post-secondary application process.

Website & Student Login Credentials:

https://student.naviance.com/chartiersvhs User Name: Student ID# (cafeteria #) Password: Date of Birth (8 digits, ex:01051998)

More info: https://www.naviance.com/content/naviance-student





Grade Reporting (Back to Menu) (Go to Course Lists)

Grades will be issued at the conclusion of each quarterly grading period (9-weeks). Student report cards will not be printed and mailed home at the conclusion of the first three quarters. Rather, parents and students may access final quarterly and semester grades via Infinite Campus. Paper copies of the final report card will be sent home via postal mail at the conclusion of the school year. If you would like a paper copy of a quarterly report card, please contact the main office and a hard-copy will be prepared for you.

Grade Calculation

Mid-term examinations are an option for course instructors. When utilized, the mid-term examination score will be reflected on the students' report cards as a percentage and will change how grades are calculated at the semester and final grade levels.

Final exams examinations covering materials from the each of the four grading periods will be given in all the major disciplines. Students taking AP courses will have the option of taking the AP exam or the course final exam. The final examination shall count as 20 percent of the <u>final grade</u> unless the teacher utilizes a mid-term exam during the first semester.

Quarterly Grades

To calculate a quarterly (9-week) grade, the points earned in each class will be totaled and converted to a percentage.

Grade calculations without a mid-term exam:

- <u>Semester 1</u>: Average of quarters 1 and 2
- <u>Semester 2</u>: Average of quarters 3 and 4 final percentages (80% of second-semester grade); final exam (20% of second semester grade)
- *<u>Final Grade</u>*: Average of semesters 1 and 2

Grade calculations with a mid-term exam:

- <u>Semester 1</u>: Average of quarter 1 and 2 final percentages (80% of first-semester grade); mid-term exam (20% of first semester grade)
- <u>Semester 2</u>: Average of quarters 3 and 4 final percentages (80% of second-semester grade); final exam (20% of second semester grade)
- *Final Grade*: Average of semesters 1 and 2 final percentages

Grading Scale (Back to Menu) (Go to Course Lists)

	Grade	Standard Quality Point Average*	Honors & CiHS Courses	Advanced Placement
97-100%	A+	4.5	5.0	5.5
93-96%	А	4.25	4.75	5.25
90-92%	A-	4.0	4.5	5.0
87-89%	B+	3.5	4.0	4.5
83-86%	В	3.25	3.75	4.25
80-82%	B-	3.0	3.5	4.0
77-79%	C+	2.5	3.0	3.5
73-76%	С	2.25	2.75	3.25
70-72%	C-	2.0	2.5	3.0
67-69%	D+	1.5	2.0	2.5
63-66%	D	1.25	1.75	2.25
60-62%	D-	1.0	1.5	2.0
59% & below	F	0	0	0

*Advanced and Standard Courses are on the Standard Quality Point Scale

Chartiers Valley High School Program of Studies - 2020-2021

Weighted Courses (Back to Menu) (Go to Course Lists)

Advanced Placement (AP) Courses

Chartiers Valley High School participates in the Advanced Placement Program of the College Entrance Examination Board. This program serves the interests of three groups: high school students capable of pursuing college level studies, secondary schools that desire to offer these students the opportunity to work at an advanced level, and colleges that wish to encourage and recognize such achievements. Advanced Placement courses may have required summer assignments.

English			Science		Mathematics
1350	AP Language & Composition	3442	AP Biology	2423	AP Calculus AB
1355	AP Literature & Composition	3341	AP Chemistry	2430	AP Calculus BC
1360	AP Seminar (Capstone)	3441	AP Physics 1	2515	AP Statistics
1365	AP Research (Capstone)	3445	AP Physics 2		
		3450	AP Physics C Mechanics		
		3455	AP Physics E & M		

Social Studies			Art, Computer Sciences, World Language
4409	AP Macroeconomics	7450	AP Digital Art (2D & 3D)
4410	AP Microeconomics	7460	AP Studio Art
4346	AP US Government & Politics	2635	AP Computer Science A (Java)
4348	AP United States History	6062	AP Computer Science Principles
4347	AP Psychology	5116	AP Spanish

College in the High School (CiHS) (Back to Menu) (Go to Course Lists) 5.0 Weighted Scale

College in the High School (CiHS) permits high school students to take university-level courses as part of their regular high school day. Chartiers Valley teachers, in cooperation with Duquesne University, Rochester Institute of Technology (RIT), Carlow University and the University of Pittsburgh offer these courses during the regular high school day. The cooperating university has approved both the courses and the teachers that are part of the college in high school program. CIHS courses are regular university courses, and participating in the course requires an investment of time, effort and money. To transfer credits, since these high school courses also result in college credit, the student must request an official transcript from the college or university. CIHS credits are generally accepted as transfer credits by all colleges and universities. There is no guarantee, however, that all credits will transfer to all institutions. Universities, and even degree programs within universities, have varying policies on accepting transfer credits. A student who successfully completes a CIHS course will receive a university transcript with a grade for the course and three or more credits. Each university establishes their own guidelines for the minimum grade to receive college credits. Associated with each course is a fee for credit that may be earned. Currently the following courses are offered as College in the High School:

- Advanced Video Broadcasting (Point Park)
- AP Psychology (Dual Described University of Pgh)
- AP Spanish 4 (Dual Described Duquesne University)
- AP Statistics (Dual Described Duquesne University)
- C++ (Duquesne University)
- Calculus (Duquesne University)
- Chemistry (Duquesne University)
- All PLTW Courses (Rochester Institute of Technology)

- Communications/Rhetoric (University of Pittsburgh)
- Computer Assisted Design 1 & 2 (CCAC)
- Cybersecurity & the Law (University of Pittsburgh)
- French 4 (Duquesne University)
- German 4 (Duquesne University)
- Principles of Accounting (Carlow University)
- Shaping of the Modern World (*Duquesne University*)

Back to Top Back to Course List



Project Lead the Way (PLTW) CiHS Courses (Back to Menu)

All PLTW courses are College in the High School courses and are noted with a PLTW in the course description. College credits may be earned provided the student meets the requirements. A fee is associated with college credits. Additional credit opportunities are available for all PLTW courses.

- Computer Integrated Manufacturing
- Digital Electronics
- Introduction to Engineering Design
- Principles of Engineering
- Environmental Sustainability
- Engineering Design and Development
- Civil Engineering and Architecture
- Principles of Biomedical Sciences (PBS)
- Human Body Systems
- Medical Interventions
- Biomedical Innovation (new)

The Engineering, Applied Engineering and Technology Path is comprised of rigorous and relevant courses from Chartiers Valley and Project Lead the Way (PLTW). This project-based curriculum is designed to provide students with the foundation they need to become the next generation of leaders and innovators in our community and beyond.

Honors Courses

English		Science			Mathematics	
1132	Honors English 9/Composition 1	3133	Honors Biology	2143	Honors Algebra 2	
1232	Honors English 10/Composition 2			2244	Honors Combined Geometry	
1425	Honors World Literature			2403	Honors Pre-Calculus	

	Social Studies		Art
4002	Honors Development of the United States	7455	Honors Digital Art
4006	Honors World History	7445	Honors Studio Art

Online Tools

Infinite Campus: Provides access to family contact information, student grades/report cards, attendance, schedules, school-home communication management, etc.

Click here: Infinite Campus Parent Login Or use: Infinite Campus Mobile App -- District ID: YQPKSC

Schoology: Use Schoology to access your child's courses, schedules and grades. See class assignments, homework, calendar of events and other postings from your child's teacher. To access Schoology, click <u>Schoology Login Site</u> or go to <u>www.cvsd.net</u>, select "High School", and look in "Parent Resources".

Appeal of Grade (Board Policy #213) (Back to Menu) (Go to Course Lists)

The teacher is the primary evaluator. Parents or students who wish to appeal a course grade should appeal to the teacher. Parents or students who remain unsatisfied following the appeal to the teacher may appeal to the principal.

With substantial and valid reasons, the principal, under state code and following the collective bargain agreement, may revise the grade.

A below-average or failing grade, without significant mitigating circumstances, is not sufficient reason for a withdrawal from a class.

Back to Course List

5.0 Weighted Scale

Homework (Board Policy #213) (Back to Menu) (Go to Course Lists)

Teachers are encouraged to evaluate, record and return in a timely fashion all written homework that is collected. At the beginning of the course, students should be advised as to the teacher's homework evaluation procedures.

<u>Class Participation</u> (Board Policy #213)

Class participation is a valid component in student evaluation. However, grades may not be lowered for inappropriate classroom behavior. Such behavior must be addressed within the school's discipline procedure.

Absence from Class (Board Policy #213)

The procedures for making up work may be found in the Student Handbook issued annually by the school. Absences from class may impact negatively on a student's academic progress. Failure to complete work assigned as a result of absence will negatively affect the student's grade. Suspension from school is an excused absence.

In extraordinary situations, opportunities to make up work or take tests missed during unexcused absence may be offered. These opportunities are left to the discretion of the principal after consultation with the teachers.

<u>Class Rank and Commencement Recognition</u> (Beginning with the class of 2023) (Board Policy #213)

The Chartiers Valley School District will no longer keep an official record of student class rank. Accordingly, there will be no designation of class rank at commencement exercises and no designation of class rank on the high school transcript.

As of 2019-2020 class rank for an individual student will be supplied directly to outside agencies only when failure to do so would exclude a student from consideration for acceptance to an academic program or for the granting of a scholarship or merit award. When the district receives official notification from an outside agency that class rank is a mandatory requisite for a selection process, a class rank will be established and reported directly to the requesting agency. The comparative cumulative (grades 9 through 12) weighted quality point averages of all students in a class will serve as the basis for ranking. Students tied in ranking shall be given the highest rank available so that several students may hold the same rank. Thereafter, ranking will continue as though there had been no tie(s). For example, if two students tie at the number one position, the next student will rank number 3.

Seniors will be recognized at commencement exercises as follows: Summa Cum Laude, 5.00 or higher cumulative quality point average; Magna Cum Laude, 4.75 through 4.99 cumulative quality point average, Cum Laude, 4.50 through 4.74 cumulative quality point average. The cumulative quality point average at the end of the first semester of the senior year will serve as the basis for these distinctions. Any student who qualifies for any of the aforementioned distinctions may apply to speak at graduation by submitting a written copy of his or her proposed speech to a committee of senior high school teachers and administrators established by the high school principal. The committee will invite those students whose written speeches are deemed most compelling to an interview with the committee. The committee will then select by consensus a maximum of three speakers from among those students.

Class Rank (2020, 2021 & 2022 Classes only) (Back to Menu) (Go to Course Lists)

Official class rank is determined three times, at the end of the junior year, at the end of the third quarter during the senior year, and at the end of the senior year. All students are ranked together.

Chartiers Valley High School Program of Studies - 2020-2021 <u>Back to Top</u> <u>Back to Course List</u>





Engineering Academy Requirements (Back to Menu) (Go to Course Lists)

The Engineering, Applied Engineering and Technology Path is comprised of rigorous and relevant courses from Chartiers Valley and Project Lead The Way (PLTW). This project-based curriculum is designed to provide students with the foundation they need to become the next generation of leaders and innovators in our community and beyond.

Year One

Required College Bound Core Classes: English, Social Studies, Engineering, Math, Science, Health, Physical Education, Modern Language

Required Engineering Classes

•	Introduction to Engineering Design (IED)	Full Year	PLTW
•	Applied Engineering	Full Year	

Year Two

Required College Bound Core Classes: English, Social Studies, Math, Science, Physical Education

Required Engineering Classes

•	Computer Integrated Manufacturing (CIM)	Full Year	PLTW
•	Principles of Engineering (POE)	Full Year	PLTW
•	Mass Production	Full Year	

Year Three

Required College Bound Core Classes: English, Social Studies, Math, Science, Physical Education

Required Engineering Classes		
 Engineering Design and Development 	Full Year	PLTW
 Product Development 	Full Year	
Engineering Elective		
Engineering Electives		
 Civil Engineering and Architecture (CEA) 	Full Year	PLTW
• Digital Electronic (DE)	Full Year	PLTW
 Computer Assisted Design and Drafting (CADD) 1 	Full Year	
• Computer Assisted Design and Drafting (CADD) 2	Full Year	
Construction Systems	Semester	
 Drawing and Design 	Semester	
Materials	Semester	
Modern Infrastructure	Semester	
Robotics	Full Year	

Engineering Academy Certificates (Back to Menu) (Go to Course Lists)

To obtain an Applied Engineering and Technology (AET) certificate, four related credits in a specific area must be completed. These credits will be taken as electives. In addition, students will be required to complete the Chartiers Valley graduation requirements for all certificate programs.

Career Interests

Certificate programs may lead to careers in robotics, advanced manufacturing, engineering technology and drafting.

Engineering Certificate

- Drawing and Design
- Materials

- Intro to Engineering Design (IED)
- Principles of Engineering (POE)
- Modern InfrastructureConstruction Systems
- Computer Integrated Manufacturing (CIM)
- Civil Engineering & Architecture (CEA)
- Applied Engineering
- Robotics

Machine and Fabrication Technology Certificate

• Materials

- Applied Engineering Product Development
- Drawing and Design
- Mass Production

Architectural Design and Modeling Certificate

- Drawing and Design
 CADD2
- Materials
 IED
- CADD 1 CEA

Mechanical Design and Modeling Certificate

- Drawing and Design
- Materials
- CADD 1
- CADD 2
- IED





(Back to Menu)

	Applied Engineering & Technology (AET)					
6811	Engineering 1 Intro to Engineering Design	6601	Manufacturing Tech 1 <i>Materials & Construction</i>	6503	MMT 3A Advanced Graphic Design & Photography	
6801	Engineering 2 <i>Principles of Engineering</i>	6602	Manufacturing Tech 2A Mass Production	6509	CiHS Advanced Video Broadcasting	
6611	Engineering 3 <i>Computer Integrated</i> <i>Manufacturing</i>	6302	Manufacturing Tech 2B Metals & More	6800	MakerLab@AET	
6815	Engineering 4 Engineering Design & Development	6605	Manufacturing Tech 3 Product Factory	6823	CiHS Computer Assisted Design 1 (CAD1)	
6825	Environmental Sustainability	6501	MMT 1 VisCom & Video Basics	6824	CiHS Computer Assisted Design 2 (CAD2)	
6802	Civil Engineering & Architecture	6502	MMT 2A Graphic Design & Photography	6301	Transportation Systems	
6612	Digital Electronics	6826	Applied Environmental Sustainability	6813	Robotics	
			At			

	Art						
7107*	Exploratory Art (9-11)	7106*	Drawing	7460	AP Studio Art		
7011*	Exploratory Art (12)	7108*	Painting	7480	Advanced Digital Art &		
			_		Design		
7103*	Animation	7109*	Printmaking	7455	Honors Digital Art		
7104*	Ceramics	7110*	Sculpture	7450	AP Digital Art		
7105*	Crafts & Mixed Media	7401	Senior Studio Art	7482	GD3: Video Game Art		
7476*	Digital Art & Design	7445	Honors Studio Art				

	Business						
6010	Introduction to	6050	Introduction to Business	6065	Marketing Dynamics		
	Accounting		Concepts				
6055	Accounting 1B	6070	Business Law	6088	GD3: Advanced Game		
					Marketing & School Store		
6005	Financial Accounting	6060	Design, Multimedia, &	6009	Succeeding in the World of		
			Web Technologies		Work		
6051	Foundations of Personal	6015	CiHS Principles of				
	Finance		Accounting				

	Career & Community Learning Opportunities								
6092	Peer Learning Assistant	6090	Work Experience						
	Computer Science								
6062	AP Computer Science	2653	CiHS C++	2612	Introduction to Computer				
	Principles				Programming				
2635	AP Computer Science A	6020	CiHS Cybersecurity & the	2614*	Computer Programming				
	Applications								
2613	GD3: Game Development	2650	Introduction to C#						

			English		
1111	English 9/Composition 1	1350	AP Language & Composition	1365	AP Research
1131	English 9 Advanced/ Composition 1	1422	World Literature 12/Composition 4	1509*	Media Writing and Public Relations
1132	Honors English 9/Composition 1	1425	Honors World 15 Literature 12		SAT Prep
1211	English 10/ Composition 2	1355	AP Literature & Composition	1506*	Public Speaking
1231	English 10 Advanced/ Composition 2	1502	CiHS Communications/ Rhetoric	1507*	Creative Writing
1232	Honors English 10/ Composition 2	1532	Journalism/Yearbook	1508*	Shakespeare and the Origins of the Modern Hero
1322	American Literature Composition 3/11	1542	Yearbook Production	1504*	CiHS Introduction to Film
1325	Advanced Language & Composition/11	1360	AP Seminar		
		Family	v & Consumer Scien	ce	
8511	Introduction to the World	8501	Child Development and	850	5 Early Childhood Practicum
8512	of Food and Nutrition 1 Ethnic and Regional Cuisine and Nutrition 2	8505	Family Relations Early Childhood Practicus	m 8508	2 3 Primary School Practicum
			~		
2121	Due Alexand	2211	Mathematics	241	3 CiHS Calculus
2121	Pre-Algebra Algebra 1	2211	Cognitive Geometry Combined Geometry	241	
2122	Cognitive Algebra I	2244	Honors Combined Geometry	243	
2131	Cognitive Algebra 2	2145	Algebra 3	251	5 AP Statistics
2132	Algebra 2	2313	Trigonometry/Analysis	2516	
2143	Honors Algebra 2	2403	Honors Pre-Calculus		
		1	Performing Arts		
7501	Cadenza Chorus	8041	Modern & Jazz Dance 1	8100) Intro to Theatre Arts
7505	Select Chorus	8042	Modern & Jazz Dance 2	810	
7511	Band	8043	Modern & Jazz Dance 3	820	0
7521	Orchestra	8044	Modern & Jazz Dance 4	8202	<u> </u>
7531	Jazz Ensemble	8055	Modern & Jazz Dance 5		
8040	Introduction to Dance	8051	Majorettes - Drill Team -		
			Dance Troupe – Dance		
			Production		
		Pl	nysical Education		
8032	Physical Education	8034	Lifetime Activities	8038	5
000	(4 days)	000	(2 days)		Education (2 Days)
8025	Health (4 days)	8027	Drivers Theory (5 days)		Dance (See Performing Arts)
8033	Adventure Activities	8036	Sports Officiating and Principles of Coaching		
	(2 days)		I meiples of Coaching		

	<u>Science</u>									
3221	Biology Lab	3341	AP Chemistry	3455	AP Physics C: Electricity					
					and Magnetism					
3133	Honors Biology	3350	Anatomy & Physiology	3442	AP Biology					
3222	Biological Applications	3421	Practical Physics	3355	Principles of Biomedical					
					Science (PBS)					
3321	Applied Chemistry	3441	AP Physics 1	3360	Human Body Systems (HBS)					
3331	Chemistry w/ Lab	3445	AP Physics 2	3365	Medical Interventions					
3340	CiHS Chemistry	3450	AP Physics C: Mechanics	3370	Biomedical Innovation					

	Social Studies									
4000	Development of the	4345	Shaping of the Modern	4406	Economics					
	United States		World							
4002	Honors - Development of	4346	AP U.S. Government and	4407	Law and Government					
	the United States		Politics							
4005	World Cultures	4347	AP Psychology	4409	AP Macroeconomics					
4006	Honors World Cultures	4348	AP United States History	4410	AP Microeconomics					
4010	Contemporary US/Global	4405	Psychology							
	Studies									

	World Languages									
5011	French 1	5022	German 2	5112	Spanish 3					
5012	French 2	5023	German 3	5114	CiHS Spanish 4					
5013	French 3	5024	CiHS German 4	5116	AP Spanish Language					
5014	CiHS French 4	5108	Spanish 1	5117*	Spanish Communication					
			-		through Contemporary Topics					
5021	German 1	5110	Spanish 2							

	Parkway West Career & Technical Center									
9113	Auto Body Repair	9161	Culinary Arts	9185	Public Safety Technology					
9313	-	9361		9385						
9119	Automotive Technology	9190	Graphic Arts & Production	9375	Sports Medicine and					
9319		9389	Technology	9376	Rehabilitation Therapy					
					Technology (SMARTT)					
9137	Construction Technology	9173	Health Occupations	9193	Veterinary Assistant					
9337	Cluster	9373	Technology	9402	Technology					
9143	Cosmetology	9155	Cyber Security &	9234	Principles of Technology					
9343		9355	Networking Technology							
9238	Chemical Properties in	9220	US History	9221	U.S. History II					
	Practice									
9120	Diesel Technology	9223	World History							
9320										

* = New Course





Applied Engineering & Technology (AET) (Back to All Course List)



The AET department was recognized nationally as a top 3 STEM program in the United States in 2015. All students are encouraged to take advantage of this outstanding opportunity in preparation for the 21st century career fields. The department offers courses in visual communications, manufacturing, construction, and engineering disciplines. Each area has introductory and advanced level courses. Introductory courses are open to all grade levels. Advanced level courses may have grade level or academic prerequisites. <u>See course description for details</u>.

All PLTW courses are College in the High School courses and are noted with a PLTW banner at the course title. College credits may be earned, provided the student meets the requirements. Additional credit opportunities are available for all PLTW courses. Speak to a PLTW teacher for more information. This is an opportunity to earn up to 17 college credits prior to High School Graduation.

Engineering@AET	Manufacture@AET	MultiMedia	Make and
		Tech@AET	Model@AET
Engineering 1	Manufacturing Tech 1	MMT 1	MakerLab@AET
Intro to Engineering Design	Materials & Construction	VisCom & Video Basics	
Engineering 2	Manufacturing Tech 2A	MMT 2A	CiHS Computer Assisted
Principles of Engineering	Mass Production	Graphic Design &	Design 1 (CAD1)
		Photography	
Engineering 3	Manufacturing Tech 2B	MMT 3A	CiHS Computer Assisted
Computer Integrated	Metals & More	Advanced Graphic Design &	Design 2 (CAD2)
Manufacturing		Photography	
Engineering 4	Manufacturing Tech 3	CiHS Advanced Video	Transportation Systems
Engineering Design &	Product Factory	Broadcasting	
Development		U U U U U U U U U U U U U U U U U U U	
Environmental			Robotics
Sustainability			
Civil Engineering &			AG@AET
Architecture			
Digital Electronics			Applied Environmental
			Sustainability

Engineering @AET

0 • • • • 0 •							
Engineering 1		6811	PLTW	1 Credit	5.0 Weight	Year	
*Intro to Engineering Design			CiHS				
Course Description	Students dig deep into the engineering design process, applying math, science, an engineering standards to hands-on projects. They work both individually and in team to design solutions to a variety of problems using 3-D modeling software, and use a					nd in teams	
Prerequisites	Com	notebook to do pleted Algebra les 9, 10, 11, 12	1 or Teache		ation		

Engineering 2		6801	PLTW	1 Credit	5.0 Weight	Year
*Principles of Enginee		CiHS				
Course Description	Through pro	oblems that er	igage and c	hallenge, stud	lents explore a broa	d range of
-	opics, includin	g mechanisr	ns, the strengt	h of structures and ma	aterials, and	
	automation.	Students deve	lop skills in	problem solv	ring, research, and d	esign while
	learning strategies for design process documentation, collaboration, and present					esentation.
Prerequisites	• Algebra 2 with a 70% or higher.					
-	 Oper 	n to grades 10,	11, & 12			

Engineering 3		6611	PLTW	1 Credit	5.0 Weight	Year	
*Computer Integrated		CiHS					
Course Description	Manufactured item	is are pai	rt of ever	yday life, yet	t most students hav	e not been	
-	introduced to the h	igh-tech, i	innovative	nature of mo	dern manufacturing.	This course	
	illuminates the oppo	portunities related to understanding manufacturing. At the same time,					
	it teaches students	students about manufacturing processes, product design, robotics, and					
	automation. Studer	nts can ea	arn a virt	ual manufact	uring badge recogni	zed by the	
	iring Badg	ge system.					
Prerequisites	of Intro t	o Engineeı	ring Design				
*	Teacher rec	ommenda	tion	0 0			

Engineering 4	6815	PLTW	1 Credit	5.0 Weight	Year	
*Engineering Design &		CiHS				
Course Description	together in Enginee research, design, ar engineers. Students	ering Designd test a so apply the andards, c	gn and Deve olution, ultin e professiona ompleting E	elopment as nately prese al skills they ngineering [chout PLTW Engine they identify an issunting their solution to have developed to Design and Developm	ue and then o a panel of document a
Prerequisites	CompletionConcurrent			preparatory	mathematics.	

Environmental Sustainability		6825	PLTW	1 Credit	5.0 Weight	Year
			CiHS			
Course Description	to real-world renewable e	challenges rela nergy. Apply	ated to clean ing their k	and abundant	and design solutions drinking water, food rough hands-on act l solutions to these	supply, and tivities and
Prerequisites		ents will have on to grades 10, 1	1	iology with a	70% or higher.	

Civil Engineering & Architecture		6802	PLTW	1 Credit	5.0 Weight	Year	
			CiHS				
Course Description	Students learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3-D architectural design software.						
Prerequisites	Open	Open to grades 10, 11, & 12					
_	Teacher Recommendation						

Digital Electronics	Digital Electronics		PLTW	1 Credit	5.0 Weight	Year			
		CiHS							
Course Description		From smartphones to appliances, digital circuits are all around us. This course provides							
_	a foundation for students who are interested in electrical engineering, electronics, or								
	circuit design. Students study topics such as combinational and sequential logic and are								
	exposed to circuit design tools used in industry, including logic gates, integrated circuits,								
	and program	mable logic de	vices.						
Prerequisites	Com	pletion of Prine	ciples of Eng	gineering					
_	• Open to grades 11, & 12								
	• Teac	her recommend	dation						

Manufacture@AET

Manufacturing Tech 1		6601		1 Credit	NonWeighted	Year	
*Materials & Construc	tion						
Course Description	This year long course provides a foundation for the AET department and introduce students to the proper use of tools in the laboratory. This course is designed to instruc- students in the areas of reading project drawings, knowledge of materials and uses calculations of materials, and project procedures. A major emphasis will be placed of shop safety, proper hand and power tool usage. This course provides students with an in-depth introduction to the shop and student will gain practical knowledge needed to work on their own projects or continue on wit lifelong skills in fabrication and construction. Students will construct various teacher assigned projects, as well as create, design and build personal projects of their choic with teacher guidance and close supervision.						
	industry offers. Stude used for various ty	sidential construction industry and the many career choices the adents will study the current construction methods and material types of residential structures. This course introduces site aration, job layout, materials and methods for construction.					
Prerequisites	 None Grades 9, 10, 1 						

Manufacturing Tech 2	A	6602		1 Credit	NonWeighted	Year	
*Mass Production							
Course Description	produced pro to process va plasma cutte will be utilize production s	ojects in the lab rious materials rs, laser engra ed by the stud	. Students w s. The use overs and the ents. Studer each studer	ill learn the saf of automated (e associated so nts may be ask nt completes	he development of a re operation of tools ar CNC technology, such oftware for both wood ed to work on projectone part of a produ- rojects.	nd machines n as routers, l and metal, ts in a mass	
Prerequisites	 Successful completion of Manufacturing Tech 1 Teacher Recommendation 						
	 Grades 10, 11, 12 only 						

Manufacturing Tech 2B *Metals and More		6302		1 Credit	NonWeighted	Year
Course Description	Coursework MIG Welding a problem, d different indu and soldering about and in CAD, CNC L	will be based of g and CNC Plase esign a solutio ustrial technolo g all with a str tegrate current aser and more	upon current sma cutting. n, and build ogies such as ong emphas t technologie . Students n	t trends in the Successful stuc the answer. S cutting, weld is on industria s into their pre- nay be asked to	industrial world with industrial world with dents will be able to w Students will be expos- ing, bending, threadin al safety. Students with ojects, such as CNC, S o work alone or in tea g it was created with	h a focus on ork through sed to many ng, shearing 11 also learn 3D Printing, ms to create
Prerequisites	• Grad	essful completi les 10, 11 & 12 her recomment	only	facturing Tech	1	

Manufacturing Tech 3		6605		1 Credit	NonWeighted	Year		
*Product Factory								
Course Description	courses in the by integratin will use the upon them, develop their machines and technological groups as w	AET departm g creativity, re design process and present th r own produ d processes. Th abilities learn vell as individ	ent. This cou search, desi to determin eir designs ct after suc nis course de ed in previo lually. Stud	arse will educa gn, prototypin ne shortcoming in the first po cessfully dem mands studen ous courses to ents will hav	nination of all other te a new generation o g, and manufacturing gs in existing produce rition of the year. Su constrating proficient ts to apply skills, tech design and develop a e access to 3d mod ing, that are available	f innovators g. Students cts, improve tudents will cy with all miques, and a product in leling, laser		
Prerequisites	 Makerlab@AET or CADD 1 Manufacturing Tech 1 							
	• Man	ufacturing Te	ech 2A or M	lanufacturing	g Tech 2B			

MultiMedia Tech@AET

MMT 1		6501		1 Credit	NonWeighted	Year
*VisCom & Video Bas	ics					
Course Description	This year long course different areas of visu Photography, image r video production and CC products, includin pictures, designing, cre The video aspect of th using Adobe Premiere and present a weekly	al commun manipulatic offset press g Photoshc eating, filmi iis course v Pro. Studer	ication and on, screen printing. A op, Illustrate ing, making vill teach st tts will wor	video prod printing t-sl Il projects w or and Prem g and doing t udents how k individual	uction. Topics incl nirts, vinyl decal ill be designed usi tiere Pro. If you e things, this course to make and edit ly and collaborativ	ude: digital production, ng Adobe ® enjoy taking is for you. video clips ely to create
Prerequisites	None					

MMT 2A		6502		1 Credit	NonWeighted	Year		
*Graphic Design & Ph								
Course Description	This year-long course	is an exter	nsion of the	e popular Vi	sCom section of V	/isCom and		
_	Video Basics. This exciting course encourages creativity with projects that are							
	challenging, rewarding and fun. Each student will learn advanced techniques in Adobe							
	Illustrator, Photoshop and Lightroom. Projects include multi-colored vinyl decals and							
	t-shirts, glass etching,	, photograp	ohy, image	manipulation	on and 3D Printin	ng. Digital		
	photography is covere	ed for one s	emester and	d you will d	o many projects u	sing a high-		
	end digital camera.	If you en	joyed VisC	Com this cou	urse is for you, or	r if you are		
	considering a career in graphics/photography then this course is a must. This course is							
	a Technology Credit.							
Prerequisites	• 75% or better i	in MMT1 (VisCom an	d Video Basi	ics)			

MMT 3A		6503		1 Credit	NonWeighted	Year
*Advanced Graphic D						
Course Description	This year-long course is ar This course expects a high I Projects are challenging a include multi-colored vin manipulation and 3D Print in Adobe Illustrator, Pho designer, artist, and create graphic design, photograp Credit.	evel of cre ind requir yl decals ing. Each toshop an or. This co	ativity and e more and t-sh student d Light ourse is	nd a willing time and th irts, glass e will continue room. This a must if yo	ness to "think outsi nought to complet etching, photograp e to learn advanced is the perfect cou ou are considering	de the box". te. Projects bhy, image l techniques urse for the a career in
Prerequisites	 Teacher Recomme 75% or better in Gr 		ign and	Photograph	y	

CiHS Advanced Video	Broadcasting	6509		1 Credit	5.0 Weight	Year	
Course Description	Students will act as a prod- of film production, and act a program play out server, need leadership skills to Comcast and Verizon local	in many : and a grap effectively	rolls thro phic gene 7 produe	oughout the erator for the	course. Students message board. S	will operate tudents will	
Prerequisites	Teacher Recommendation75% or better in Introduction to VisCom and Video Basics						

Make and Model@AET

MakerLab@AET		6800		1 Credit	NonWeighted	Year		
Course Description	Makerspaces are creative, DIY spaces where people can gather, to create, invent, and learn. Students will be able to use 3D printers, software, electronics, craft supplies, and tools to develop their designs and bring them to life. Drawings that previously ended on paper will transform into 3D products. Students will learn the process of solving a technological problem, model a solution, and develop a working prototype. This introductory level course is appropriate for 9-12 grade students who are interested							
	understanding of cour learning, used in con previous knowledge o	eering. Students will have the opportunity to develop skills and urse concepts through activity, project, as well as problem-based mbination with a teaming approach. This course assumes no or prerequisite.						
Prerequisites	NoneOpen to grade	es 9, 10, 11, o	& 12					

CIHS Computer Assiste	6821	CiHS	1 Credit	5.0 Weight	Year		
Course Description	A full-year course offered to students in grades 9-12. This course teaches students how						
-	to use the computer as a drafting tool to meet today's demand for computer literate						
	draftsmen and engineers. Students will implement industry standard Autodesk						
	applications. Students will create scaled 3d models of some of their designs using						
	various materials to sim	nulate a wo	orking arch	itectural mod	del.		
Prerequisites	 Open to grades 	9, 10, 11,	& 12				
-	Teacher Recommendation						

CiHS Computer Assisted	d Drawing 2 (CAD2)	6824	CiHS	1 Credit	5.0 Weight	Year	
Course Description	This course is designed to provide students with an opportunity to pursue skills at applications in Computer Aided Drafting and Architectural Design Technologies. Are of study will include, but are not limited to: geometric construction, orthograph projection, advanced practices in dimensioning, sectioning, auxiliary view system pictorial systems, architectural drawings, and computer aided drafting. This will res in the development of skills for a career in architectural planning, design, and drawing Students will also be given the opportunity to receive a certificate of proficiency throu Autodesk.						
Prerequisites	75% or better inTeacher Recom		ı				

Transportation Systems		6301		1 Credit	NonWeighted	Year
Course Description	This course will focu- changing world of tra- they rely on. Students various modes of tran components, and prop We will also spend tim on a daily basis in the	nsportation s will be gir sportation. pulsion dev e learning a	. From the ven a chanc Students v ices to builc	vehicles the ce to explore vill be using l vehicles th	emselves, to the In e, build and test ve g various hand too at will be perform	frastructure chicles from ls, electrical ance tested.
Prerequisites	None					

Robotics		6813		1 Credit	NonWeighted	Year
Course Description	This year long cours programming of robot many types and opera of robots in manufac throughout the course robotic competitions. T the extra-curricular act robot for competition	tic systems tional capal turing. Te . Students This course	Students bilities of ro amwork an will also ha provides a	will acquire bots, as well nd problem ave the oppo great founda	e a basic understar l as the programmi solving will be o prtunity to compet- ation for students i	nding of the ing, and use emphasized e in various nterested in
Prerequisites	Open to grade	s 9, 10, 11,	& 12			

AG@AET

Applied Environmental	6826		1 Credit	NonWeighted	Year				
Course Description	This year-long project-based course focuses on the development of								
-	environmentally su	stainable s	systems a	nd their	integration into	our lives,			
	schools, and comm	unities. T	he guidir	ig principl	les in this cours	se are the			
	designing, building	, and testi	ing of va	rious syste	ems that could	potentially			
	resolve real-world	problems	while e	expanding	upon Global	Standards.			
	Specifically, the goal	l of the cou	rse is to a	fford stude	ents the opportun	ity to gain			
	hands-on experience	e in the ar	eas of env	vironmenta	l sustainability f	or a better			
	tomorrow, safe a	nd abund	lant wat	er, food	security and	renewable			
	energy. Students v	vill use co	ontent an	d concepts	s from the Envi	ronmental			
	Sustainability course	e to design	and crea	te systems	that reinforce th	e concepts			
	previously learned.	previously learned. A review of the relevant material will help all students							
	succeed, thus, any st	udent in gr	ades 9-12	will be able	e to participate in	the course.			
Prerequisites	Open to grade	s 9, 10, 11, 8	& 12						

(Back to All Course List)



Art



(Back to All Course List)

The Art program is designed to accommodate the needs, interests and abilities of each student by providing a wide range of visual experiences in the areas of ceramics, sculpture, graphics, drawing, painting, commercial art and crafts. All art courses are electives.

	Art									
7107*	Exploratory Art (9-11)	7106*	Drawing							
7011*	Exploratory Art (12)	7108*	Painting	7445	Honors Studio Art					
7103*	Animation	7109*	Printmaking	7455	Honors Digital Art					
7104*	Ceramics	7110*	Sculpture	7450	AP Digital Art					
7105*	Crafts & Mixed Media	7401*	Senior Studio Art	7460	AP Studio Art					
7476	Digital Art & Design	7480	7480 Advanced Digital Art &							
			Design							
7481	collaboratively to allow the Students will work in teams playtest and market their ga	e student: across the me to the deadline rt Depart:	s to immerse themselves in a e three classes as a collective " e student body. Throughout the s; they will be evaluated on the	a real-v compar ne proce	ee yearlong courses that work world game design experience. ny" to produce, design, animate, ess, students will be responsible ss of their final game launch.					

- Game Development (Computer Science Department Offering)
- Advanced Game Marketing (Business Department Offering) c. * = New Course -IN

Exploratory Art (9-11)	7107		.5 Credit	NonWeighted	Semester			
Course Description	1 2	0	2	studio art course that				
_	and analyze the pri	and analyze the principles and elements of art, which will be used to effectively complete						
NEW	projects throughou	at the semester	. Students will b	e introduced to a vari	ety of fine art			
NEX	mediums such as	drawing, pai	nting, printmaki	ng, graphic design a	nd sculpture.			

	Exploratory Art 9th - 11th grade will meet the developmental and cognitive needs of the
	students at their respective grade level.
Proroquisitos	None

Exploratory Art (12)	7011		.5 Credit	NonWeighted	Semester
Course Description	principles and ele semester. Students painting, printmak on real world appli- be used in a prof artists and styles w process. Explorato	ements of art s will be introdu king, graphic de ication of artisti ressional or ent vill also be explo ory Art 12th gra	in relation to p uced to a variety of esign and sculptu- ic practices. The st trepreneurial man pred to enhance st ade will meet the	idio art course that w projects completed th of fine art mediums suc ure. This course will fo tudent will develop sk nner. Contemporary tudent understanding developmental and co	aroughout the ch as drawing, ocus primarily ills that would and historical of the creative
Prerequisites	of the students at t • None	neir respective	grade level.		

Animation	7103		.5 Credit	NonWeighted	Semester
Course Description	creativity through explore the interna the natural flow ar design. Multiple	n drawing, stor ational history a nd movement of traditional and 1ghout the cou	ytelling, and oth and evolution of a objects, backgrou digital animatic urse. Students w	which students express ner visual mediums. animation through cha and development, light on processes will be ill be able to identif ses.	Students will practer design, ting, and stage explored and
Prerequisites	NoneTeacher re	ecommendatio	n		

Ceramics	7104		.5 Credit	NonWeighted	Semester			
Course Description	Ceramics is an introductory studio course consisting of both hand built and wheel thrown methods of construction. This course will include the examination of clay,							
NEW	glazing techniques use the slab constru projects. Students	s, decoration me uction, coil buil will be able to echniques. Add	ethods and firing t, pinch pot and ha utilize, identify a litionally, student	procedures. Students and thrown techniques nd name ceramic tool s will become familiar	will learn and s to create clay s, clay bodies,			
Prerequisites	None							

Crafts & Mixed Media	7105		.5 Credit	NonWeighted	Semester					
Course Description	Crafts & Mixed Media is an introductory studio course intended for students who are									
		1		nterested in the fine	1					
				rt and craft of various						
	0		0 1	e working with a varie	2					
	mediums such as	paint, clay, fab	pric, metal, wood	, and yarn, while lear	ming multiple					
NEW	studio techniques.	. Examples of t	the skills that ma	ay be developed inclu	ude macramé,					
•	decoupage, charted designs, basketry, weaving, quilting, knitting, crocheting, paper									
	craft, bookbinding	craft, bookbinding, and stamping. Real-world applications will be explored such as the								
	work and entrepre	neurial opportu	inities available o	n social media sites su	ch as Etsy and					
	Pinterest.									
Prerequisites	None									

Digital Art & Design		7476		.5 Credit	NonWeighted	Semester
Course Description	this course. reexamined, in order to processes an themes and i	Fraditional der and reevaluate create uniqu d mediums w ssues. Themes	sign princip ed along with ely contemp ill be explor include digi	les and art ma h non-tradition porary artwor red in order t ital painting, in	es and processes are aking processes will hal and cutting edge t k. Twenty-first cent o address a diversity mage manipulation, c tional/digital art hyb	be utilized, ecchnologies tury artists, y of current ompositing,
Prerequisites	Non	e			· · · ·	

Drawing		7106		.5 Credit	NonWeighted	Semester
Course Description	observational wide range o pencils, color drawings al traditional m	l skills and dra f drawing med red pencils an ong with noi	wing techni lia and draw d pastels to n-representa ill be incorp	ques. Projects ving surfaces. S create observ tional subject orated, placin	l focus on the deve will include the expl Students will use pen rational still life and matter. Traditional g emphasis on expen	oration of a cil, charcoal portraiture and non-
Prerequisites	• Non	e				

Painting	7108		.5 Credit	NonWeighted	Semester	
Course Description	watercolor p will address Students wil throughout t painting tools	ainting, opaqu matters in the ll also explore he painting pr s, materials, an	e acrylic par areas of still the conce rocess. Stude d painting te	inting and oth -life, portrait, pts of color, ents will be al echniques. A n	xplore the transpare er paint media. Spec landscape, and abstra light, texture and o ple to utilize, identify najor emphasis is on e ugh observation.	rific projects act painting. composition y and name
Prerequisites	None					

Printmaking		7109		.5 Credit	NonWeighted	Semester
Course Description	opportunity f through the monoprint ar in class. Stud the study of qualities of p relevance and	to learn the var printmaking ad collagraph p lents will be in tools, inks, pa prints e.g over	ious method process. I printmaking nmersed in t per, plate pi lays, transpa	s of creating m Drypoint etch are a few of the the distinctive reparation, reg arency, offset,	will provide studen ultiple copies from a s ing, linoleum reduce techniques that will nature of printmakin sistration, printing pr and multiple images making process will b	single image ction print, be practiced g including ocesses and s. Historical
Prerequisites	• Non	e				

Sculpture		7110		.5 Credit	NonWeighted	Semester
Course Description	while develo form using a gain knowle construction.	ping both useft variety of mat dge in additiv Historical an stract forms are	al and sculpt erials such a ve, subtracti ad contempo	ural forms. Stu s clay, plaster, ve, and assen prary concepts	xplore three-dimensi idents will explore th wood, and metals. S ablage techniques as ranging from repr and quality craftsman	e element of tudents will sources of esentational
Prerequisites	 Non 	e				

Senior Studio Art		7401		1 Credit	NonWeighted	Year		
Course Description		This course is designed for seniors who want to extend their knowledge of previously						
_	learned visua	learned visual art mediums. This is a hands-on open studio style course.						
Prerequisites	• Mus	Must be a senior						
NEW	Successfully completed 3 prior art courses							
	Teacher recommendation							

AP Studio Art		7460	AP		1 Credit	5.5 Weight	Year
Course Description	art. Students and mixed m end of	will create a p nedia, which v	oortfolio o vill be su For a	of wor bmitt	rks including ed to the Co	sted in the practical e drawing, painting, llege Board for eval description pl	printmaking
Prerequisites	80% in Art 3Teacher recommendation						

Advanced Digital Art	Advanced Digital Art & Design			1 Credit	NonWeighted	Year
Course Description	course will vocabulary. students del manipulatior traditional/d	focus on desi Individual sty ve into the dig n, compositin	gn principle le and artis ital art realr g, vector ids will be	es and elemen tic voice will n. Students w drawing, an	nniques, styles and pr nts to advance stude be examined and de ill utilize digital pair imation, image tra students will develop	ents' digital eveloped as ating, image unsfer, and
Prerequisites		in Digital Ar	0			

Honors Studio Art		7445	Honors	1 Credit	5.0 Weight	Year
Course Description	AP Studio An and painting Portfolio. Al students will groundwork	t in their senic skills and tech course work w be responsible	or year. Stuc nniques in o will foster ind for theme id dio Art cour	lents will build rder to begin o dividualized c leas and drawi rse by giving s	dents who are interest d upon and utilize pro- creating a personalize reative problem solvi- ng styles. This course tudents a head start i estic voice.	ior drawing ed Drawing ng, wherein will lay the
Prerequisites	• 90%	in any previc	ous art cours	se and teache	r recommendation	

Honors Digital Art		7455	Honors	1 Credit	5.0 Weight	Year
Course Description	This is a pre	paratory cours	se designed	for 11th grade	e students who are in	nterested in
-	taking AP D	igital Art in th	eir senior ye	ear. Students v	will build upon and a	utilize prior
	digital multi	media concept	s and techni	ques in order	to begin creating a p	personalized
	design portfo	olio. All course	e work will f	foster individu	alized creative probl	em solving,
	wherein stuc	lents will be r	esponsible f	or all stylistic	and design consider	ations. This
	course will la	y the groundw	vork for the A	AP Digital Art	course by giving stud	lents a head
	start in creati	ng a portfolio	that is reflect	tive of a unique	e and personal artistic	c voice.
Prerequisites	• 90% in Digital Art & Design					
-	Teacl	her recommend	dation			

AP Digital Art	7450	AP	1 Credit	5.5 Weight	Year	
Course Description	Students will	create a portfo	olio of works	s that focus on	experience of a fit for utilizing techniques i egeboard.com for a	n digital art
Prerequisites	• 80%	grade in Digital Ar her recomme				

Game Design Triad (G Video Game Art	GD3):	7481		1 Credit	NonWeighted	Year
Course Description	The Character & Graphic Developme courses. Students will learn about, elements (characters, backgrounds, ol game styles. In the end, students will peers in the Game Creation course wi			eate, and dev cts, start screen covide the nece	relop the various vis ns, etc.) needed for a r essary handmade asse	ual graphic nultitude of
Prerequisites	None					

(Back to All Course List)



Business



(Back to All Course List)

The Business Education program is committed to preparing students to meet the growing demands of the global business community. Our goal is to provide a comprehensive selection of academic electives that will enable them to establish skills for a successful professional future. All courses are focused on a rigorous curriculum that is project-based including simulations, real-life applications, and hands-on exercises. **Membership in DECA is recommended**. *All courses are electives*.

ID	Course	ID	Course Name				
6010	Introduction to Accounting	6060	Design, Multimedia, & Web Technologies				
6055	Accounting 1B	6070	Business Law				
6005	Financial Accounting	6015	CiHS Principles of Accounting				
6051	Foundations of Personal Finance	6065	Marketing Dynamics				
6050	Introduction to Business Concepts	6009	Succeeding in the World of Work				
6087	Game Design Triad: The Game Design Triad consists of three yearlong courses that work collaboratively						

Game Design Triad: The Game Design Triad consists of three yearlong courses that work collaboratively to allow the students to immerse themselves in a real-world game design experience. Students will work in teams across the three classes as a collective "company" to produce, design, animate, playtest and market their game to the student body. Throughout the process, students will be responsible for meeting checkpoints and deadlines; they will be evaluated on the success of their final game launch.

- a. Character & Graphic Development (Art Department Offering)
- b. Game Development (Computer Science Department Offering)
- c. Advanced Game Marketing & School Store (Business Department Offering)

Introduction to Accounting		6010		1 Credit	NonWeighted	Year		
Course Description	Since it is known as the Language of Business, a working knowledge of accounting is							
-	desirable for	many career pa	aths includin	g general man	agement, marketing,	finance, and		
			5		ting program and is			
	course for both professional and personal use. The emphasis is on understanding the							
	complete accounting cycle for a business operated as a sole proprietorship. Business							
	transactions will be analyze, classified, and recorded using both manual and							
	1	0	5		ital principles of d	5		
	1 0				sheets, special journa	, 0		
		0			ent in this course prov			
			0	0 1	ersonal and profession			
	information and assists with the transition to college-level accounting principles.							
Prerequisites	Non	e						

Accounting 1B		6055		1 Credit	NonWeighted	Year		
Course Description	Accounting 1B is a continuation and expansion of the concepts introduced in							
-	Introduction	to Accounting	. However, t	he emphasis i	s on understanding tl	he complete		
	accounting cycle for a business operated as a corporation. Corporate business							
	transactions will be analyzed, classified, and recorded using both manual and							
	computerized accounting systems. The fundamental principles of double-entry							
	bookkeeping	along with su	ubsidiary led	lgers and spec	cial journals, payroll	accounting,		
	planning an	d recording a	ccount allow	wances and a	djustments, and pre	paring and		
	analyzing co	rporate financi	al information	on will be disc	cussed. Enrollment in	this course		
	will add to	your solid fou	indation of	accounting ba	sics and further assi	ist with the		
	transition to college-level accounting principles.							
Prerequisites	Introduction to Accounting							

Financial Accounting		6005		1 Credit	NonWeighted	Year
Course Description	course will p on a career concepts of utilization of	rovide the thec in any busine financial acco financial stater asset to any en	pretical backg ss-related fi unting that ment data. A	ground necessa eld. Students includes the working know	t from Financial Acco ary for students who a will be introduced t preparation, interpre- vledge of accounting a associated.	tre planning to the basic etation, and
Prerequisites	Teac	her recommen	dation			

Foundations of Personal Finance		6051		.5 Credit	NonWeighted	Semester	
Course Description	Students will learn fundamental personal finance skills that will prepare them for						
	financial independence. Understanding money management, investments, wealth						
	building, credit and debit, real estate, earning potential, and consumer awareness are						
	topics explored throughout this course. Critical thinking skills including analyzing real-						
	world situati	ons, decision-n	naking, prob	lem solving ar	nd goal setting are also	o developed	
	in Foundations of Personal Finance.						
Prerequisites	None	2					

Introduction to Business	Concepts	6050		1 Credit	NonWeighted	Year			
Course Description	This yearlong course provides students with the opportunity to gain awareness of								
-	running a sr	nall business t	through exa	mining the m	any areas of busines	ss including			
	Management	Management, Marketing, Finance, Advertising, Operations, Human Resources, Finance							
	and Ethics. St	and Ethics. Students will research and write a cumulative business plan that explores in							
	depth the as	depth the aspects of business. Business writing, oral, and collaborative skills are also							
	incorporated	incorporated into the course units. Students will learn how to plan, organize, construct,							
		revise and deliver business documents and presentations in a professional and effective							
	2			2	solve business proble	0			
	critical and re	critical and reflective thinking, and communicate results and ideas through appropriate							
	mediums.								
Prerequisites	 Non 	e							

Design, Multimedia, & Web		6060		.5 Credit	NonWeighted	Semester
Technologies						
Course Description	the importar Exploration implementat create websit the art softw	nce of the desi of the design ion of the final res using HTM are that will al	gn process process fron working we L (Hyper Te	as it pertains n the develop: bsite will be a xt Markup Lar	digital communication to communicating v ment of the original focus. Additionally, s nguage) as well as ut of their websites. Th	ia the web. idea to the tudents will ilize state of
Prerequisites	open to all gr • None					

Business Law		6070		1 Credit	NonWeighted	Year
Course Description	law and the decisions and	ethics involved their relevan	l, the process ce to employ	ses of our lega yers in the dai	uce students to the p l system, and the imp ly operation of a bus earch based projects.	pact of legal
Prerequisites	Intro	to Business (re	ecommendec	1)		

(Back to All Course List)

CiHS Principles of Accounting		6015	CiHS	1 Credit	5.0 Weight	Year
Course Description	accounting, e recording an closing entrie in detail. The earned if all	emphasizing the d reporting of es; trial balance focus of this	ne accounting f accounting s; and financ course is or are met; a f	g cycle; princi data; journal ial statements n sole proprie ee is attached	duction to the basic ples and concepts go entries including ad . Accounting for asset torships. College cre to earning college c .4-2015)	verning the justing and is is covered edit may be
Prerequisites	• Non	e				

Game Design Triad (GD3): Advanced Game Marketing &		6087		1 Credit	NonWeighted	Year
School Store						
Course Description	market-drive development (CMO) and recognition work collabo buying beha	en strategies for t company. St a marketing le within the mar pratively to imp viors of custor	or the futur udents will adership pe ketplace. St plement a ma ners and the	e success of take the appro rspective to m udents will ga arketing plan t e overall succe	h solid experiences a business, specifica bach of Chief Market naximize their game's in real-world experie hat will impact the o ess of the game. In ctive role in managin	lly a game ing Officers s profit and ence as they pinions and addition to
Prerequisites					ts take the Introductic Iling in this course.	on to

Marketing Dynamics		6065		1 Credit	NonWeighted	Year
Course Description	an in-depth l have the opp Also incorpo successfully customer res analyzing tl applications. knowledge b facing many	ook into mark portunity to inv rated are the market a new search. The se he concepts Students will y exploring mo different are	eting theorie vestigate the developmen product, de econd half of learned thr be given the ore specific co eas of mark	s, approaches marketing ap t of the thoug velop new pr of the year w rough project e opportunity oncepts, career keting (incluc	of marketing, this cou and functions. Studes proaches used in var ght process and skills roducts, and gather p rill focus on implem rs, simulations, and to expand their accor opportunities, and cu ling sports and ent This course is open	nts will also ious media. s needed to product and nenting and l hands-on quired basic urrent issues tertainment,
Prerequisites	• Non	e				

Succeeding in the Worl	d of Work	6009		1 Credit	NonWeighted	Year	
Course Description	Succeeding in the World of Work is a year-long course that provides students who are						
-					nt in the near futur		
	fundamental	s of employme	nt and strate	gies for succes	ss in the workforce ut	ilizing a co-	
	0	teaching model. Students explore and study areas including on-the-job and employment					
	skills, communication and personal skills, daily work skills, ethics, diversity, personal						
	finance, the job cycle, and independent living. Succeeding in the World of Work provides						
	students with the knowledge and skills needed to make a smooth transition into the						
	workforce. T	his class is gea	ared to help	students becc	ome intellectually ene	ergized in a	
	dynamic and challenging atmosphere that engages and motivates students to a higher						
	academic and personal level.						
Prerequisites	None	9					

Back to Top



Career & Community Learning Opportunities



ID	Course Name	ID	Course Name	ID	Course Name
6092	Peer Learning Assistant	6090	Work Experience		

Peer Learning Assistant		6092		.5 Credit	NonWeighted	Year			
Course Description	This junior/senior level course will afford students the opportunity to develop and								
-	apply their leadership and academic skills that can be transferred to life beyond high								
	school. Specifically, students can apply to become a technology support assistant,								
	library peer manager, and/or academic tutor during available class periods.								
	Designated students will help other students and assist instructors in these areas. This								
	opportunity includes a competitive application and interview process with limited								
	spots available based on set criteria and schedule availability. For more information,								
	please go to: www.cvsd.net/1/Content/peerlearningassistant								
Prerequisites	Must be in 11 th or 12th grade								
-	Recommendation from application committee								

Work Experience		6090		1-3 Credits	NonWeighted	Year
Course Description	Work experience will provide seniors with a valuable learning experience by integrating the opportunity of employment during the senior year. Work experience offers seniors scheduling flexibility similar to what they will encounter with most postsecondary experiences. Evaluations will include visits to the workplace, monitoring of work hours and schedules, completion of student journals and reflections, independent assignments, and frequent communication between the workplace and school.					
Prerequisites	Er Co	th grade irolled in 5 class ounselor recomi udent training a	mendati	on		

(Back to All Course List)



Computer Science



(Back to All Course List)

The Computer programming courses have strong connection to engineering, mathematics, and the sciences. Often, students choosing an engineering career in college will encounter a programing course during their freshman year.

Students with an interest in graphics, animation and game development may consider Introduction to Computer Graphics and Animation, Introduction to Computer Game Development and Introduction to Computer Programming. ***Computer Science courses, with the exception of CiHS Cybersecurity & the Law and Game Design Triad, may count as a math or science credit.*

ID	Course	ID	Course Name			
6062	AP Computer Science Principles	6020	CiHS Cybersecurity & the Law			
2635	AP Computer Science A	2650	Introduction to C#			
2653	CiHS C++ 2612 Introduction to Computer Programming					
	2614* Computer Programming Applications					
2613	Game Design Triad: The Game Design Triad consists of three yearlong courses that work collaboratively to					

Game Design Triad: The Game Design Triad consists of three yearlong courses that work collaboratively to allow the students to immerse themselves in a real-world game design experience. Students will work in teams across the three classes as a collective "company" to produce, design, animate, playtest and market their game to the student body. Throughout the process, students will be responsible for meeting checkpoints and deadlines; they will be evaluated on the success of their final game launch.

- a. Character & Graphic Development (Art Department Offering)
- b. Game Development (Computer Science Department Offering)
- c. Advanced Game Marketing (Business Department Offering)
- * = New Course 羔

AP Computer Science	Principles	6062	AP	1 Credit	5.5 Weight	Year		
Course Description	AP Computer Science Principles is designed to introduce students to the central ideas of							
	computer science, instilling the ideas and practices of computational thinking and inviting students to understand how computing changes the world. This rigorous							
	course promotes deep learning of computational thinking skills, and engages students in the creative aspects of the field.							
	This course is unique in its focus in fostering on students to be creative. Students are encouraged to apply creative processes when developing computational artifacts and to							
	think creatively while using simulations to explore questions that interest them. Rather than teaching a particular programing language or tool, the course focuses on using							
	technology and programing as a means to solve computational problems and creating exciting and personally relevant artifacts. Students design and implement innovative							
	solutions using an iterative process similar to what artists, writers, computer scientists, and engineers use to bring ideas to life. <i>This course may be used as a math or science credit.</i>							
Prerequisites		essful completi eacher Recomm		etry				

AP Computer Science A		2635	AP	1 Credit	5.5 Weight	Year	
Course Description	A highly challenging course that is designed for the motivated student who is planning a career in computer science, business or any science-related fields. The Advance Placement (AP) curriculum will be followed and includes an in-depth case stude Students are expected to participate in the AP exam which occurs in May. This example requires a thorough knowledge of Java and its programming techniques. <i>This course n</i> <i>be used as a math or science credit.</i>						
Prerequisites	 Introduction to Computer Programming Teacher recommendation 						

Game Design Triad (GD3):		2613		1 Credit	NonWeighted	Year	
Game Development							
Course Description		Game Development is designed for aspiring game developers who want to gain a solid					
	foundation in the game development/design process. Students will gain real world						
	experience as they work in student teams to design games from the ground up in the						
	Unity game	engine. Th	e Game De	evelopment c	lass will serve as	the design,	
	development	, and impleme	ntation of the	e game leg of th	ne Game Design Triad	. The Game	
	development course should appeal to individuals who are good problem solvers and						
	able to work as a productive member of a team.						
Prerequisites	• Non	e					

CiHS C++		2653	CiHS	1 Credit	5.0 Weight	Year
Course Description	College in the High School C++ is affiliated with Duquesne University and college c may be earned (purchased) for successful completion of this course. C++ is an advast programming language that introduces the concepts of objects. This highly struct language enables the student to write code that is organized, precise, and clear. A p programming language will be very useful in understanding the routines presented the course. Often, C++ is the first course a freshman engineering/science major encounter.					
Prerequisites	 Introduction to Computer Programming Teacher recommendation 					

CiHS Cybersecurity &	the Law	6020		1 Credit	5.0 Weight	Year			
Course Description	This Univers	ity of Pittsburg	gh (CIHS) el	ective course	will explore how con	nputers, the			
-	Internet, and	mobile inform	nation techr	nologies have	become routine elem	nents of our			
	daily lives. T	he percentage	of social, pr	ofessional, and	l political discourse r	nediated by			
	information a	systems increa	ses each yea	r. This course	explores questions s	surrounding			
	how cyberspa	how cyberspace is "governed" in the context of cybersecurity and privacy issues. We will							
	examine a se	eries of examp	les, both rea	al world and h	nypothetical, to inves	stigate what			
	policy "tools"	are in-place, a	vailable, and	should be ava	ilable to address Inter	rnet security			
	and privacy i	ssues. (Adapte	ed from the U	University of P	ittsburgh Undergrad	uate Course			
					and there is an optio				
			2	0	s a fee involved for st				
	wish to ear	n the college	credits. Th	ne link shares	information regard	ing jobs in			
	cybersecurity. One Million Cybersecurity Job Openings In 2016 - Forbes								
Prerequisites	• Non	e							

Introduction to C#		2650		.5 Credit	NonWeighted	Semester		
Course Description	This course is an introduction to fundamental computer concepts and includes programming techniques that use arrays and objects. The language syntax will be similar to C++ but will have a visual environment similar to Visual Basic. Students will have the necessary knowledge to conduct research into Microsoft's gaming component in C#. Upon successful completion of this course, students will be prepared for CIHS C++.							
	Students will build a solid foundation for <u>game design and game development</u> that will help them to build their own games using the Unity game engine. This class will use C#, a powerful modern language. Upon successful completion of this course, students will be better prepared for the Game Design Triad.							
Prerequisites	• Teac	duction to Cor	dation	0				

Introduction to Computer Programming		2612		1 Credit	NonWeighted	Year
Course Description	y. In this co faculty and/ ntroduction loops, and st	ourse, Chartie or students fr to programmin rings. Student	with professors and rs Valley students w om Carnegie Mellon ng techniques by stud rs will begin learning and languages.	ill have the University. ying errors,		
Prerequisites	lled in or comp	leted Algebr	ra 1			

Computer Programmin Applications	ng	2614		1 Credit	NonWeighted	Year
Course Description	Carnegie M introduction topics (such problem-solv such areas a	ellon Universe to computer as sets and ring skills in a v s art, science,	ity. It bui science cour maps), and variety of app music, math	lds on the p se covering a then applying plication areas , data analysi	with professors and programming skills dditional programm g and extending con . Units will apply con s and visualization, s ing and artificial intel	learned in ing and CS mputational nputation to simulations,
Prerequisites	Intro	duction to Cor	nputer Prog	camming		



English



(Back to All Course List)

The English Language Arts Department strives to enhance the reading, writing, speaking and listening skills of all students. Courses provide the opportunity for students to explore various literary forms from a wide array of time periods and authors, as well as to express their thoughts through written and visual forms.

ID	9th Grade English Courses	ID	10th Grade English Courses	ID	11th Grade English Courses
1111	English 9/Composition 1	1211	English 10/ Composition 2	1322	American Literature
					Composition 3/11
1131	English 9 Advanced/	1231	English 10 Advanced/	1325	Advanced Language &
	Composition 1		Composition 2		Composition/11
1132	Honors English	1232	Honors English 10/	1350	AP Language & Composition
	9/Composition 1		Composition 2		
		1360	AP Seminar	1355	AP Literature & Composition
				1360	AP Seminar
				1365	AP Research

ID	12th Grade English Courses	ID	Electives: Full Year	ID	Electives: Semester
1422	World Literature 12/Composition 4	1532	Journalism/ Yearbook	1509*	Media Writing and Public Relations
1425	Honors World Literature 12	1542	Yearbook Production	1503*	SAT Prep
1350	AP Language & Composition	1502	CiHS Communications/ Rhetoric	1506*	Public Speaking
1355	AP Literature & Composition			1507*	Creative Writing
1360	AP Seminar			1508*	Shakespeare and the Origins of the Modern Hero
1365 * - Now	AP Research			1504*	CiHS Introduction to Film

* = New Course 🚬

English 9/Composition 1		1111		1 Credit	NonWeighted	Year
Course Description	This course is an introduction to high sch curriculum. Each student will further develop the school level writing and critical thinking in re- Instruction will be geared to students' ability, necessary to succeed at this level.				kills needed for the rige to fiction and non-f	gors of high fiction texts.
Prerequisites	8 th grade performance data					
	Teacle	her recommen	dation			

English 9/Advanced Con	nposition 1	1131		1 Credit	NonWeighted	Year
Course Description	curriculum. PDE require writing and examine the assigned piec	Each student v ments, as well critical thinkin content of lite	vill further d as those sk g in respons erature as w vill be placed	levelop the sk ills needed fo e to fiction an ell as the wri l on formal, an	anced composition ar ills necessary in acco r the rigors of high d non-fiction texts. S ter's style and struct nalytical essays and the ent.	rdance with school level tudents will ure of each
Prerequisites	0	ade performar				
	Teac	her recommend	dation			

Honors English 9/Com	position 1	1132	Honors	1 Credit	5.0	Year	
Course Description	This course is designed to prepare students for the rigorous learning pace and is of Advanced Placement studies. Students will examine the content of literature as the writer's style and structure of each assigned piece. Emphasis will be pl formal, analytical essays and the synthesis of various sources into one cohesive assignment. Students will study fiction, non-fiction, drama and poetry from vari- periods and countries of origin.						
Prerequisites	• 85%	or higher in 8 th her recommend	Grade Litera	ature and Eng	lish		

English 10/Composition 2		1211		1 Credit	NonWeighted	Year
Course Description	The tenth grade English course is a continuation of the composition and li curriculum of the high school. Students will read examples of all genres and b study them analytically. During this study, they will be encouraged to devel school level writing, critical thinking and rhetorical methods in response to fict non-fiction texts.					
Prerequisites		rade performa her recommen				

English 10 Advanced/Composition 2		1231	AP	1 Credit	NonWeighted	Year
Course Description	curriculum. St grammar and	udents will e> usage. Each s riting, critical	cplore the ad tudent will f	vanced elemer urther those sl	anced composition ar nts of analytical writir kills needed for the ri ethods in response to	ng as well as gors of high
Prerequisites	 9th grade performance data Teacher recommendation 					

Honors English 10/Composition 2		1232	Honors	1 Credit	5.0 Weight	Year	
Course Description	This course w	This course will continue the sequential development of language arts skills from the					
_	Honors English 9 curriculum and is designed to prepare students for AP courses. An in-						
	depth analysis of literary elements will be emphasized with a focus on traditional as well						
	more modern selections of fiction and non-fiction. Students will learn more advanced						
	methods of po	etry analysis	and be intro	duced to rheto	rical methods and ele	ements.	
Prerequisites	80% in Honors English 9 or 90% in Advanced English 9						
1	Teache	er recommend	dation		-		

American Literature Cor	nposition 3/11	1322		1 Credit	NonWeighted	Year			
Course Description	The emphasis of	The emphasis of this course is placed on the reading, writing, and research element of							
-	the Pennsylvania	a Core Standa	rds. The co	ourse follows a	thematic element of t	he "Coming			
	of Age", which s	of Age", which students often experience during this period of their life. Each unit will							
	focus, reflect, and revolve around these unique themes associated with the coming of								
	age in reference	age in reference to direction in life, the responsibilities of a young adult, discovering							
	oneself, etc. Lite	erature will i	nclude no	vels, short sto	ories and poetry sele	ections from			
	American literat	ure Critical	analysis es	says, objective	e tests, and project bas	sed learning			
	assignments wil	l be utilized	to evaluat	e student und	erstanding as it corre	elates to the			
	Common Core S	Standards. Fr	ee-writing	journal project	ts and vocabulary ar	e additional			
	components to t	he curriculun	า.						
Prerequisites	• 10th gra	de performar	nce data						
	Teacher	recommenda	ition						
		at to All	Course	List)					

Advanced Language & C	Advanced Language & Composition/11			1 Credit	NonWeighted	Year		
Course Description	The goal of this course is to have students read complex fiction and nonfiction texts and							
-	respond in writing that conveys depth of understanding and meaning. Students will							
	develop close reading and critical thinking skills in order to identify and understand a							
	writer's argument and methods of persuasion. Students will learn to construct original							
	argumentation through the analysis of the techniques of rhetorical analysis,							
	argumentation ar	nd synthes	is. In additio	n, students wi	ll learn to write persua	asively with		
	evidence and mea	aningful c	ommentary.	Based on the	curriculum for AP La	nguage and		
	Composition, the	skills mas	tered in this	course provid	e students with an ana	alytical base		
	which can be app	lied to all	subject areas			-		
Prerequisites	• 10 th grade	e performa	ance data					
-	Teacher r	ecommen	dation					

World Literature 12/ Con	nposition 4	1422		1 Credit	NonWeighted	Year		
Course Description	Imposition 41422I CreditNonWeightedYearEach unit of the course focuses on building literary skills that are needed in the post secondary world. Analysis of fiction and non-fiction selections, in conjunction with grammar, vocabulary, and writing skills, will further develop student comprehension and the ability to communicate in both written and oral forms as required by the Pennsylvania core standards. In addition, students are prepared for post-secondary communication skills through project oriented assessments. These assessments reflect the student's ability to think critically, work independently as well as in a group, and to comprehend and respond to prompts related to fiction and non-fiction sources.							
Prerequisites		grade performa						
	• Teac	her recommend	dations					

Honors World Literature 12 Foundations of World Literature & Modern Voices in Literature and Media		1425	Honors	1 Credit	5.0 Weight	Year		
Course Description	trature and MediaHonors World Literature is comprised of two courses (Foundations of World Lit & Modern Voices in Lit and Media), but will be scheduled as a yearlong class. Students will switch teachers to take the opposite half of the course at the end of the first semester.These courses will explore timeless storylines of literature from all across human history and from all across the globe. Our study will include an exploration of the significance and meaning uncovered from multiple cultures and time periods, from ancient mythology to modern storytelling in various forms and genres. The course is designed 							
Prerequisites	 an effort to prepare for life ahead by developing skills in analytical thought and writing 75% in an AP English course or 90% in Advanced English 11 Teacher Recommendation 							

AP Seminar		1360	AP	1 Credit	5.5 Weight	Year	
Course Description	 AP Seminar is an elective course for 10th, 11th or 12th grade students taken on its own or as part of the AP Capstone[™] Program. In AP Seminar, students investigate real-world issues from multiple perspectives, gathering and analyzing information from various sources in order to develop credible and valid evidence-based arguments. Students learn to synthesize information from multiple sources, develop their own perspectives in research-based written essays, as well as design and deliver oral and visual presentations both individually and as part of a team. (AP Seminar, <i>College Board</i>, May 2016) In AP Seminar, students are assessed with two through-course performance tasks due at the end of April and a 2-hour end-of-course exam during the AP Exam administration window. All three assessments are summative and will be used to calculate a final AP score (using the 1 to 5 scale) for AP Seminar. (AP Seminar, <i>College Board</i>, May 2016) In order to be successful in this course, students must be able to manage their time effectively and to work productively and independently during class time. AP Seminar is a pre-requisite for AP Research. Sophomores and Juniors may elect to 						
		Research the		-	of the AP Capstone	-	
Prerequisites	InstructStudent	or approval re	quired. monstrated a	a strong work e	urse or 90% in Advar ethic and the ability t 5.		

AP Research		1365	AP	1 Credit	5.5 Weight	Year
Course Description	deeply explo- design, plan, Through this learning rese analyzing, an document th process and r 5,000 words (re an academic and implement inquiry, they be earch methodo nd synthesizing eir processes, reflection portf (accompanied l	topic, proble nt a yearlon further the sl logy, emplo g informatio and curate to folio. The compy a perform	em, issue, or id g investigation kills they acqu ying ethical re n. Students re he artifacts of urse culminate ance, exhibit, o	e experience, allows ea of individual intere- n to address a research ired in the AP Semina- esearch practices, and effect on their skill de f their scholarly worl es in an academic pap or product where app lege Board, 2017)	est. Students ch question. ar course by d accessing, evelopment, k through a per of 4,000-
Prerequisites	 AP Sem required be succe Student eligible Student end of t withdra 	inar is a prerec d assessment co essful in AP Re s must score a to take AP Res s need to sign he first nine wo w from the cou h is meeting th	quisite for Al omponents is search. (AP 3 or higher c earch. an enrollmer eeks the stuc urse and will	P Research. Co s necessary for Research, <i>Colle</i> on the AP Sem nt contract at th lent is not prog be enrolled ir	ompleting AP Seminar students to develop ge Board, 2017) inar End of Course Ex he beginning of the ye gressing, the student to a another English clas ement for the year or a	the skills to kam to be ear. If at the must s if AP

AP Language & Comp	osition	1350	AP	1 Credit	5.5 Weight	Year			
Course Description	The Advanced Placement course is organized according to the requirements and								
	guidelines of	guidelines of the current AP Language and Composition Course and Exam Description,							
	therefore stu	therefore students are expected to read critically, think analytically, and communicate							
	clearly, both in writing rhetorically and argumentatively. This course is organized by								
	the study of 1	the study of rhetoric. Each unit requires students to acquire and use rich vocabulary, to							
	use proper grammar, and to understand the importance of diction and syntax in an								
	author's style	e. The literature	e will includ	e various nonf	iction selections. The	2019 rubric			
	changes have	also been imp	lemented as	well as multip	le choice adjustments	to the exam			
	per AP class	oom. Student	ts are expecte	ed to take the	Advanced Placement	exam given			
	in May.								
Prerequisites	• 80% in H	lonors English	10, 75% in a	n AP English c	ourse or 90% in Adva	anced			
-	English	_		-					
	Teacher	recommendation	on						

AP Literature and Con	nposition	1355	AP	1 Credit	5.5 Weight	Year		
Course Description	Advanced Placement Literature and Composition is designed to develop reading,							
-	analysis and	composition s	skills needed	l for college b	ound seniors. In this	course, the		
	students learn how to read works of literature perceptively and how to express their							
	responses orally and in written compositions. Students will read novels, dramas, short							
	stories and poetry from many literary periods, from the Renaissance to the very modern.							
	Composition	, primarily cri	tical and ex	pository, stres	ses frequent writing	and careful		
		0		0	learly and to be direc			
	supported by	y the text. Par	rticipation ir	n whole class	and small group dis	scussions is		
	essential. Stu	dents are expe	cted to take t	the Advanced	Placement exam give	n in May.		
Prerequisites	• 80% in Honors English, 75% in an AP English course or 90% in Advanced English							
	 Teacher 	Recommenda	tion					

CiHS Communication	s/Rhetoric	1502	CiHS	1 Credit	5.0 Weight	Year	
Course Description	This course communicati of themes or argumentatic through cla expression of in and out c documentari challenges ar The class is a	examines arg ve argumental related issues on and debate. ssroom debat argument, and of the classroon es and other f e an integral p College in Hig	gument thro ion and deb in order to The develop es and for developme n setting, an orms of exp art of the cou	bugh the exa ating techniqu better underst ment of argun ms of argun nt of critical th halysis and ar ression, as wo trse.	umination of variou uses. Each unit will fol tand and apply vario nent techniques will k nent, visual/audible inking skills. In depth gumentation of socia ell as real life situation s an option to receive to articulated through the	s forms of low a series us forms of e examined e/published discussions illy charged onal project three credits	
	of Pittsburgh, there is a fee involved for students who want to earn college credits. Class attendance is imperative to receive college credits.						
Prerequisites	• 75%	in English ish teacher reco		0			

Journalism/Yearbook		1532		1 Credit	NonWeighted	Year			
Course Description	This course will teach the basic skills needed to produce the Chartiers Valley yearbook,								
-	Nexus. Stude	nts will gain aı	n understand	ling of how to	use desktop publishi	ng software			
		to create the book. Students will also learn skills including creating layouts, writing copy							
	and captions, editing photos, interviewing techniques, taking pictures and managing a								
	business. As yearbook production is a business, fundraising is a required part of the								
	curriculum. Additionally, students must be available to attend events outside of the								
					ol events. This cours				
					book as a story of or				
					reference book, and				
			n grade stud	ents are expec	ted to take Yearbook	Production			
	the following	g year.							
Prerequisites		and 11 th grade							
		in English							
	Teac	her recommen	dation						

Yearbook Production		1542		1 Credit	NonWeighted	Year	
Course Description	Students who select this elective course will assume the responsibility as staff editors						
	of the yearbook. They will design, manage, seek advertising, and produce the Chartiers						
	Valley yearbook. Organizing, running and participating in fundraisers is a requirement						
	of this course. Also, attendance at weekly afterschool meetings is required.						
Prerequisites	80% in Journalism/Yearbook 1						
-	Teac	her recommen	dation				

Media Writing and Publ	Media Writing and Public Relations			.5	NonWeigted	Semester
Course Description	including pri television/poo choice, speech, allow students of the skills re choice, style, o combine then communicate	ess releases lcasts. We wi body langua to continue t equired of stu- organization. with a mo- effectively, co- nis course wi	6, news s ll stress clear ge, delivery heir develop idents in the In this cours ore nuanced oncisely, and	cripts, copy, communication technique, and ment as writer fir regular Eng se, students wr form of wr appropriately	g related to career op social media, a on of an idea through organization. This co rs. Media writing rein glish courses - resear- ill strengthen these s iting for media. The is important regardle a multitude of mod	nd radio/ voice, word ourse would forces many ching, word kills as they e ability to ess of career
Prerequisites	None					

Creative Writing		1507		.5	NonWeigted	Semester
Course Description	relation to th techniques so Students will edit, and ma	eir writing ski uch as poetry, participate in ke constructive levelopment a	Ils. Student short storie the writing e suggestion	s will learn va s, flash fiction workshop proc s to the writter	speriment with creating prious creative writing prious, and screenp cess where they will pr n work. Students will ossibly have the opp	g styles and lay writing. peer review, ll also focus
Prerequisites	• None	2				

SAT Prep		1503		.5	NonWeigted	Semester
Course Description	This semester	r SAT Prep cou	rse is specifi	c to <u>college bo</u> ı	and students who pla	n to take the
-	SAT in the ne	SAT in the next few months or have taken the SAT and plan to re-take it. Course is not				
	relevant for	seniors in the	spring seme	ster of their s	enior year. Utilizing	the College
	 Board model, this Evidence-Based Reading and Writing course is organized aro skills and concepts tested on the Reading Test and Writing and Language Test Practice on Official SAT Practice is organized around passage content and writi so even though a class lesson will focus on one or two skills at a time, 					
NEW						
	independent	practice stude	ents will be	able to apply	multiple skills acro	oss multiple
	passages in a	way that is aut	thentic to ho	w we read and	write in daily life. Th	ne four essay
	lessons begir	n with examini	ng and unpa	acking the pro	mpt and lead into w	vriting a full
	response. En	rollment is lin	nited to 18 st	tudents per ser	mester and students	must have a
	working lap	top daily to pro	operly utiliz	e the online p	latform.	
Prerequisites			1		English coursework	
		0		0	11 English coursewo	rk with a
	C+ o	r higher or adv	ranced 11 En	glish with a B	or higher.	

Public Speaking		1506		.5	NonWeigted	Semester
Course Description	will learn of communicati integrate info allow studer listening, and	lifferent types on, speaking, ormation into its to combine l speaking all it	s of speech and listening clearly organ multiple sk n one course	, mechanics g etiquette. nized, develop ills – research . Presentation	es an effective speake of speech, dynamic We will use research bed speeches. This co , interviewing, readi skills are imperative g to enter the workfor	es of good ing skills to surse would ng, writing, for students
Prerequisites	 None 	2				

Shakespeare and the C	Shakespeare and the Origins of			.5	NonWeigted	Semester	
the Modern Hero							
Course Description		This course is a semester course in which students will read and watch renditions of					
					the development of t		
. Mar					Ve will then compare		
NEW					nd films such as Batm		
	Joker, Snow	White, and Ma	leficent. Stud	dents will learr	n to synthesize the com	e elements	
	that go into c	reating a hero	or villain th	rough journal v	writing, presentations	, and	
	critical thinking activities.						
Prerequisites	None	5					
1							

CiHS Introduction to I	Film	1504	CiHS	.5	5.0 Weight	Semester
Course Description	appreciate, a technique thi well as other screenplays, and rework o revise and in	analyze and in cough the medi carts, includin analyze shots, existing scripts	nterpret the ium of film in g photograp research film , compose s 1e, compose	me, character ncluding cinen ohy, painting, m history, stu- tory treatment action sequen	rts that teaches stude , story structure and na, television, and soci- and theater. Studen dy, and critique direc s, pitch ideas in a gro ces, draft their own s nal works.	d narrative ial media as ts will read ctors, retool oup setting,
Prerequisites	None	9				

<u>Back to Top</u>



Family & Consumer Science



(Back to All Course List)

The Chartiers Valley High School Family and Consumer Sciences curriculum is designed provide opportunities for students to actively participate in the improvement of the quality of individual and family life in a changing society. Family and Consumer Sciences empowers individuals, strengthens families, and enables communities. All F& CS courses are **electives**.

ID	Course Name	ID	Course Name
8511	Introduction to the World of Food and Nutrition 1	8505	Early Childhood Practicum 1
8512	Ethnic and Regional Cuisine and Nutrition 2	8506	Early Childhood Practicum 2
8501	Child Development and Family Relations	8508	Primary School Practicum

Introduction to the Wo	orld of	8511		1 Credit	NonWeighted	Year	
Food and Nutrition 1							
Course Description	This is an introductory course that involves students in basic principles of nutrition and						
_	their applica	their applications to food choices, nutritional analysis and consumerism. The course					
	defines the need for students to understand their role in healthy eating to ensure good						
	health in the	future. While	working in	teams, student	ts will gain necessary	work skills	
	including co	mmunications,	, organizatio	on, and technio	cal reading to ensure	e success in	
	their future c	areers. Kitche	n manageme	ent, recipe skill	s and basic food prep	arations are	
	incorporated in the weekly foods labs while students learn about nutrition and health						
	responsibiliti	es in their fam	ily, career, ai	nd community	environments.		
Prerequisites	None	2		-			

Ethnic and Regional Cuisine and Nutrition 2		8512		1 Credit	NonWeighted	Year
Course Description	Nutrition 1 a projects to en- techniques, o various regio family dietar	and allows the xplore selected consumer chal onal and ethnic ry needs. Stud hile working i	e student to l ethnic food llenges and c foods in w lents will al	delve into mo s in relation t career opport reekly labs, as so practice pr	action to the World o ore specialized and it o customs and food tunities. Students v well as identify ind oper food safety and ling in work skills re	ndependent preparation vill prepare ividual and d sanitation
Prerequisites	• 75%	in Intro to Wor	ld of Foods			

Child Development ar	nd Family	8501		1 Credit	NonWeighted	Year
Relations						
Course Description	development moral, social stages from b the use of R through lime program. Stu	E Emphasis is and emotional, pirth to early ch eal Care Baby ited direct par adents are also	placed on t , as the child uldhood. Th Simulators, rticipation i involved in	he child's tota proceeds throu is course offers as well as, pi n the high so	nd theories associated l development, physi ugh the sequential dev s hands-on experience cactical experience w chool children's lear tivities such as Blood	ical, mental, velopmental es including ith children ning center
Prerequisites	Non	chool activities. e	•			

Early Childhood Pract	icum 1	8505		2 Credits	NonWeighted	Year
Course Description	and theories of the arts, so emotional gr Students wh understand t This course re	through an act cience, literacy owth. This is a o choose this heir needs. Thi equires a \$12 pe	ual interactiv and math to performanc course need s course is a er semester s	ve experience. develop a ch e-based class to have an is great introduc	nced child developme Students plan lessons ild's physical, menta that integrates all acad nterest in children an ction to the teaching p er the high school stud	in the areas l, social and demic skills. nd strive to profession.
Prerequisites	 during Learning Center sessions. 75% or better in Child Development and Family Relations Teacher Recommendation 					

Early Childhood Pract	icum 2	8506		2 Credits	NonWeighted	Year	
Course Description	This double-period course expands student childcare skills obtained in Early Childhood Practicum 1. Students will continue to plan, carry out and supervise lessons with young children as well as aid their physical, mental, social and emotional development. Expanded leadership responsibilities include: special projects, record keeping, peer tutoring, parent newsletters, administrative tasks, and completing observations of children.						
Prerequisites	 This course requires a \$12 per semester snack fee to cover the high school student's snack during learning center sessions. 75% in Early Childhood Education 1 						
		her recommend					

Primary School Practic	cum	8508		2/3 Credits	NonWeighted	Year		
Course Description	This two or three credit course is designed to provide students on-the-job experience in the field of education. Students are placed at the primary school under the supervision of a co-operating teacher. The student will assist the cooperating teacher in a variety of activities including lesson preparation, teaching, testing, grading, tutoring, etc. This is a great opportunity to experience the teaching profession. This course must be taken with the Primary School Service course as a pre-student teaching experience. <i>Students will be required to walk across the bridge to the Primary School</i> .							
Prerequisites	 80% in Early Childhood Education 1 12th grade students only Teacher recommendation 							



Mathematics



(Back to All Course List)

The Chartiers Valley High School Math curriculum is aligned with the Pennsylvania Core Standards. The curriculum not only stresses conceptual understanding and key ideas, but also emphasizes the knowledge and skills students need to be prepared for mathematics in college, career and life.

ID	Course Name	ID	Course Name	ID	Course Name
2121	Pre-Algebra	2211	Cognitive Geometry	2413	CiHS Calculus
2122	Algebra 1	2212	Combined Geometry	2423	AP Calculus AB
2123	Cognitive Algebra I	2244	Honors Combined Geometry	2430	AP Calculus BC
2131	Cognitive Algebra 2	2145	Algebra 3	2515	AP Statistics
2132	Algebra 2	2313	Trigonometry/Analysis	2516*	Analytics and Statistics in
					Sports
2143	Honors Algebra 2	2403	Honors Pre-Calculus		



Pre-Algebra		2121		1 Credit	NonWeighted	Year
Course Description	arithmetic alg Algebra I and learning strat step equation operations w spatial think	gorithms. The o l II. The course regies. Student as and inequal ith fractions, 1	course empha helps studen s will explore ities, decima catios, propo l volume, ri	asizes the conc nts develop go e algebraic exp ils and equation rtions, percen ight triangles	lgebra concepts and cepts necessary to be s od mathematical stuc- pressions and integers ons, factors, fractions, t, linear functions an in Algebra, data at	successful in dy skills and s, solve one- , exponents, d graphing,
Prerequisites	• None	2				

Algebra 1		2122		1 Credit	NonWeighted	Year	
Course Description	deepen an y contrasting a linear tren nts will fluer	d extend the g them with ea nd. They will e ntly move bet	oncepts established ir understanding of ach other and by app engage in methods for ween multiple repres ial and quadratics.	linear and lying linear r analyzing,			
Prerequisites	Successful completion of Algebra Essentials						
	Teacher recommendation						

Cognitive Algebra 1		2123		1 Credit	NonWeighted	Year		
Course Description	State Algebra and Linear E focusing on t Linear Equa	1 Keystone Ex equations & In he following si tions, Linear	am. The cou lequalities an x anchors: C Inequalities,	rse will explored ad (2) Linear 2 Operations with Functions, C	1 skills in preparation e the two modules: (1) Functions & Data On n Real Numbers and I Coordinate Geometry w basic on the Algeb	Operations ganizations Expressions, and Data		
	Exam will be recommended to take this course.							
Prerequisites	Alge	bra 1						

Cognitive Algebra 2		2132		1 Credit	NonWeighted	Year	
Course Description	The course will begin with an extensive review of linear functions and systems of equations. Students will study quadratic functions and use these to model real-world scenarios. Students will be introduced to polynomial, rational, and trigonometric functions, and do some work in the field of descriptive statistics. The course will move at a slower pace than Algebra 2 and topics covered will have a broader approach.						
Prerequisites	 Below 70% in Algebra 1 Below 85% in Cognitive Algebra 1 Teacher recommendation 						

Algebra 2		2132		1 Credit	NonWeighted	Year
Course Description	trigonometrie students will situations and and exponen	c, and radical f apply their un d solve equatic tial equations	unctions. Wo derstanding ons including using the pro	orking closely of transforma g quadratics ov operties of loga	e polynomial, rational with families of funct tions. Students will m yer the set of complex withms. Students will ng inferences about d	ions, odel numbers use
Prerequisites	 80% in Algebra 1 85% in Cognitive Algebra 1 Teacher recommendation 					

Honors Algebra 2		2143	Honors	1 Credit	5.0 Weight	Year
Course Description	trigonometric students will and solve ec exponential e statistics and	c, and radical apply their un quations inclu equations using probability as ted coverage, v	functions. aderstanding ading quadr g the property a tool for n	Working clos of transforma atics over the ties of logarith naking inferen	include polynomia ely with families of tions. They will mode e set of complex nu ms. Students will use ces about data. Some in greater depths than	f functions, el situations umbers and descriptive e topics will
Prerequisites		in Algebra 1 her recommend	dation			

Cognitive Geometry		2111		1 Credit	NonWeighted	Year	
Course Description	The purpose of the course is to formalize, deepen and extend students' geometric and						
-	algebraic experiences. Students will continue their work with similarity and congruence.						
	Students explore more complex geometric concepts, and relationships, including: formal						
	mathematical arguments, transformations, the coordinate system, right triangle						
	trigonometry	, circles and j	probability.	This course w	vill move at a slowe	r pace than	
	Geometry an	d topics covere	ed will have	a broader appi	roach.		
Prerequisites	Belov	w 75% in Algeb	ora 1				
*	Teac	her recommend	dation				

Combined Geometry		2212		1 Credit	NonWeighted	Year		
Course Description		The purpose of the course is to formalize, deepen and extend students' geometric and						
	algebraic experiences. Students will continue their work with similarity and congruence.							
	Students explore more complex geometric concepts, and relationships, including formal							
	mathematical arguments, transformations, the coordinate system, right triangle							
	trigonometry, circles and probability.							
Prerequisites	• 75% in Algebra 1							
•	Teacl	her recommend	dation					

Honors Combined Ge	Honors Combined Geometry		Honors	1 Credit	5.0 Weight	Year	
Course Description	The purpose of the course is to formalize, deepen and extend students' geometric a algebraic experiences. Students will continue their work with similarity and congruen Students explore more complex geometric concepts, and relationships, including: forr mathematical arguments, transformations, the coordinate system, right trian trigonometry circles and probability. Some topics will have accelerated coverage, wh some will be covered in greater depths than the Combined Geometry course.						
Prerequisites	93% in Algebra 1Teacher recommendation						

Algebra 3		2145		1 Credit	NonWeighted	Year
Course Description	use them to s linear and c complex num	olve problems Juadratic func	that we enco tions, syster s will also be	unter in every ns of equatio e introduced to	oraic principles and lo day life. Students will ns, polynomials, gra o basic trigonometry. arios.	learn about phing, and
Prerequisites		essful completi her recomment	0	tive Algebra 2		

Trigonometry/Analysis		2313		1 Credit	NonWeighted	Year
Course Description	A course dealing with the concepts of al			gebra, composi	tion of functions, expo	onential and
-	logarithmic functions, finite and infinite sequences and series, circular functions, radian					
	measure, solution of right triangles and application of the Laws of Sines and Cosines.					
Prerequisites	• 75% or better in Algebra 2					
-	Teacher recommendation					

Honors Pre-Calculus		2403	Honors	1 Credit	5.0 Weight	Year		
Course Description	Honors Trigonometry/Pre-Calculus is a course designed for students planning to							
		further their studies in mathematics to include calculus, notably, AP Calculus. Topics						
	covered include a review of basic algebraic concepts; polynomial, rational, exponential							
	and logarithmic functions; trigonometric functions and identities; polar coordinates;							
	analytical Geometry; sequences and an introduction to calculus. Students will develop							
	0	0 0	, , , , , , , , , , , , , , , , , , ,	, <u> </u>	nce of mathematical p	patterns and		
	will become f	amiliar with th	ne fundamer	itals of pre-cal	culus.			
Prerequisites	• 90% :	in Honors Alge	ebra 2					
	• 95% in Algebra 2							
	Teacle	her recommen	dation					

CiHS Calculus		2313	CiHS	1 Credit	5.0 Weight	Year
Course Description	related fields emphasis on	. It contains a problem solv	thorough rev ving rather	view of algebra than theory.	to major in business, a 2 and differential ca This course may be er and counselor appr	alculus with scheduled
Prerequisites	 Successful completion of Algebra 2 Teacher recommendation 					

AP Calculus AB		2423	AP	1 Credit	5.5 Weight	Year
Course Description	concept of ca course repress problems bei connections be widely appli memorization types. Techr relationships to implement involving Alg for students t the course, st	Iculus and pro- ents a multi-pro- ng expressed between these po- cable methods n of an extension alogy is used among the mu- t experimenta gebra 2 problem o complete over udents are exp	eviding experience resentational geometricall representations are empha- sive taxonom d regularly altiple represent tion, and to ms and some er the summer rected to take	erience with it approach to ca y, numerically ons are also ver sized. The for by of function by students sentations of fu- assist in inter e basic Trigone er prior to taking	the students' understand s methods and applie alculus with concepts, y, analytically, and very important. Broad concurs cus is neither manip is, curves, theorems, and teachers to re- unctions to confirm we empreting results. An ometry concepts will ing this course. As a con- d Placement Exam in	cations. The results, and erbally. The oncepts and pulation nor or problem einforce the ritten work, assignment be required omponent of
Prerequisites	• 88%	in Honors Alge in Honors Pre- her recommend	Calculus			

AP Calculus BC		2430	AP	1 Credit	5.5 Weight	Year	
Course Description	Calculus BC is presented as a cohesive whole through the use of the unifying themes of limits, derivatives, integrals, polynomial approximations, series, parametric and pola functions, and vectors. The course features a multi-representative approach to calculu and concepts, results, and problems expressed graphically, numerically, analytically and verbally.						
Prerequisites	• 93%	in Honors Alge in Honors Trig her recommene					

AP Statistics		2515	AP	1 Credit	5.5 Weight	Year
Course Description	produced by technology w the Advance course also h An assignme complete ove Displaying	y others and vill be emphasi ed Placement H ave the option ent involving er the summer Distributions,	themselves ized throug Exam in Ma to purchase basic statist . Course un Normal	s. Solving even hout the course y of the school college credits ical concepts its will include	, and interpreting (inf eryday problems ar e. The student is <u>expe</u> l year. Students enro through Duquesne L will be required for Measures of Centra Correlation and ance.	nd utilizing <u>ccted</u> to take blled in this Jniversity. students to 1 Tendency,
Prerequisites	Succe	essful completi	ion of Algeb	ora 2		

Analytics & Statistics	in Sports	2516		1 Credit	NonWeighted	Year		
Course Description	This yearlong	g course will pr	ovide studer	nts the opportu	nity to challenge them	nselves with		
-	a math cours	a math course that forces them to think about math in a way that none of their previous						
	courses have	courses have. One component of the course will be learning about advanced statistics						
	that different	that different sports use, what they mean, and how they are calculated. Students will						
		learn to track and compute statistics derived from looking at box scores and drive charts,						
NEW		as well as from the study of video. The other component of the course will require the						
					ents will have to pr			
					rally through presen			
					n an interest in eithe	1		
					ing, way to connect t			
	expose themselves to thinking about mathematics in an entirely different setting.							
Prerequisites		or 12 th Grade						
	Succ	essfully comple	eted or are en	nrolled in Alge	bra 2			

Chartiers Valley High School Program of Studies - 2020-2021

Back to Top Back to Course List



Performing Arts



(Back to All Course List)

The Department of Performing Arts offers areas of study in the performing arts – dance, music, and theatre arts for all high school students. Dance can count as a physical education credit in grades 9 through 12. Music and theatre students will receive **elective** credits for their selected courses.

ID	Course Name	ID	Course Name	ID	Course Name		
7501	Cadenza Chorus	8041	Modern & Jazz Dance 1	8100	Intro to Theatre Arts		
7505	Select Chorus	8042	Modern & Jazz Dance 2	8201	Acting 1		
7511	Band	8043	Modern & Jazz Dance 3	8202	Acting 2 & 3		
7521	Orchestra	8044	Modern & Jazz Dance 4				
7531	Jazz Ensemble	8055	Modern & Jazz Dance 5				
8040	Introduction to Dance	8051	Majorettes - Drill Team - Dance Troupe - Dance Production				

Cadenza Chorus		7501		1 Credit	NonWeighted	Year		
Course Description	Cadenza chorus is an intermediate level high school group that enjoys the study and performance of choral music. Students in this ensemble have satisfying experiences performing music in the community, supporting school culture, (when appropriate) and in school concerts in the winter and spring. Prescribed concert dress is mandatory. Using the powerful medium of music students will be encouraged to express their feelings and emotions through mature interpretation of the written music. For this to							
	occur, discipline and support of each member of the group and director must be in place.							
	Students will develop correct singing technique in a group atmosphere. Reading skills, including melodic and rhythmic notation, sight reading skills, and intelligent interpretation of the musical style will be emphasized. On-line theory study will enhance this knowledge. This knowledge will be quizzed and graded. Solo and small ensemble opportunities will be available to advanced students.							
	 Students will rehearse and perform a variety of styles of music in school and community performances. Dress rehearsals and performances will be part of the grade. One of the highlights of the year is the SOUNDWAVES recital in the spring. The chorus groups often take spring performance trips. Although students are encouraged to go because they are educational and fun, they are not mandatory. In December, after the winter concert, auditions will be held to determine students moving into upper level chorus groups for the following year. 							
Prerequisites		ctor's signature						

Select Chorus		7505		1 Credit	NonWeighted	Year	
Select Chorus Course Description	choral study attitudes and encouraged t Using the po feelings and occur, discipi Select chorus vocal technic There will be knowledge.	orus consists of and perform l work ethics. ' to study privat owerful mediu emotions thro line and suppo s will study ac ue and sight r e on-line theory Since chorus is	ance. These They will be ely. Im of music ugh mature i rt of each me dvanced theo reading in the study and c s a performation	iors and senic students will expected to pr students will interpretation mber of the gro ory, music his eir pursuit of e juizzes to chec nee based class	be encouraged to	xpress their For this to t be in place. tion, correct erformance. oncepts and pected to be	
Prerequisites	 present at all dress rehearsals and performances unless excused by the director. Select chorus has prescribed concert attire that is mandatory. Students that desire to be in Select chorus audition in late December/early January of their 9th grade year or at a further advanced grade level. The chorus groups often take spring performance trips. Although students are encouraged to go because they are educational and fun they are not mandatory. Performance in more than one chorus is possible depending on the student's schedule. Students interested in this class should approach Mrs. Kipp to discuss audition procedures and times. 						
Tierequisites	• An a		ciudes signi	reading, meor	y quiz and a vocal so	<i>n</i> 0.	

Band		7511		1 Credit	NonWeighted	Year
Course Description	year student rehearsals an correct intona Students will pedagogies c cultural and band is desig playing skills and perform skill while en	s are expected d performance ation as well as a nalyze the luring this time social context a gned to further are expected a ance. Third an acouraging stu	d to develo es with the en developing a effect of re- e. Students y ind interpret r develop ma as the studer id fourth yea dents to ass	p basic playin nsembles. Not and applying f chearsal/pract will understan these selection arching and co arching and co ts continue to r band further ume leadershi	rching and concert be ng skills while part tation reading, rhythr undamental vocabula ice sessions and ap d a piece based on th ns by classifications. So oncert band skills. In strive for excellence to develops marching a p roles in ensembles ed to participate in all	icipating in n decoding, ry is taught. ply various te historical, Second year ntermediate in ensemble and playing . All music
Prerequisites	• Audi	ition and/or D	irector's reco	mmendation f	for all band classes.	

Orchestra		7521		1 Credit	NonWeighted	Year	
Course Description	musicians the of musical str the alternation Students accorrepertoire.	e opportunity t yles, and to und ye fiddling rep uire musical Students are e	to explore the derstand the pertoire with knowledge xpected to o	e formal qualit aesthetic value continual stu and appreciat develop advar	ts of all levels. This c ies of music, to perfor of music. Emphasis dy and reference to ion by building their nced skills that are n iques. <u>Students are</u>	rm a variety is placed on the classics. r orchestral necessary to	
Prerequisites	Audition and/or Director's recommendation for all Orchestra classes.						

<u>Back to Top</u>

Jazz Ensemble		7531		1 Credit	NonWeighted	Year	
Course Description	Jazz Ensemble is designed to develop in students an appreciation of and proficiency in the musical medium of Jazz. Students rehearse and perform as an ensemble while						
	developing skills in rhythmic accuracy, dynamics, articulation, intonation and						
	improvisation. Students are required to participate in all concerts.						
	Prerequisites: -						
Prerequisites	• This	is an audition o	only ensemb	le.			

Introduction to Dance		8040		1 Credit	NonWeighted	Year	
Course Description	This course i	s designed for	students w	ho are interes	ted in body moveme	nt and self-	
-	expression th	expression through dancing. Various dance form will be explored with emphasis on					
	ballet, jazz,	and modern	techniques	6. This cours	e will provide stu	dents with	
	opportunities to develop dance skills and techniques, to express emotions and ideas						
	through movement, and to work with a varied sample of music styles. Class						
	presentations and videotaping will enable the students to develop performance						
	techniques a	nd receive fee	edback conc	erning their o	overall performance.	The class	
	members wil	l be required t	o perform ir	n Showcase. T	he course is open to the	9 th , 10 th , 11 th	
	and 12 th grad	les. Students v	with advance	ed dance skills	and training may au	dition to be	
	exempted fro	m this course a	nd be placed	l in the approp	riate level dance cours	se. Students	
	are responsib	le for a \$50 cos	tume fee for	Showcase. Sh	ould requests for this	class exceed	
	a manageabl	e number as o	determined	by the instruc	tor and high school	principal, a	
	lottery to reduce numbers to an acceptable class load will be conducted.						
Prerequisites	• All s	tudents must d	ress in appr	opriate dance	wear (black leotards a	nd black	
*	tight	s purchased by	the student)			

Modern & Jazz Dance	1	8041		1 Credit	NonWeighted	Year		
Course Description	The course is designed to develop beginner-intermediate technique in both modern and jazz dance forms. Emphasis is on refining and enhancing technical awareness after being introduced to these forms in the Introduction to Dance class. The student will have opportunities to learn about movement elements, styles and principles of choreography. Evaluation for the course is based on performance tasks and rubric assessments, daily class participation, selected response testing, open ended test, choreographic tasks. Videotaping and peer assessment will also be used to elevate progress. Students are responsible for a \$120 costume fee for Showcase.							
Prerequisites	 Intropre-a pre-a Depa All s tight Parti Be p basis Those place excu 	oduction to Dar approval for the artment. tudents must d sdance wear icipate in the ar hysically able t s. se students with ed into an adap	nce and have e class from t ress in appro r must be pur nual arts sh o perform in n long term i oted physical	the opriate dance rchased by the lowcase and d a highly inten llnesses or inju	wear (black leotards a e student) ress rehearsal (three e use, physical class on a uries may be required ss for the duration of	evenings) a daily to be		

Modern & Jazz Dance	2	8042		1 Credit	NonWeighted	Year	
Course Description	The course is designed to develop intermediate technique in both modern and jazz dance forms. Emphasis is on refining and enhancing technical performance at an intermediate level. The student will have opportunities to analyze movement elements, styles and principles of choreography and to create a performance composition. Evaluation for the course is based on performance tasks and rubric assessments, daily class participation, selected response testing, open ended tests, choreographic tasks. Videotaping and peer assessment will also be used to evaluate progress. Students are responsible for a \$120 costume fee for Showcase.						
Prerequisites	 Mod App pros Parti Able Stud an ac 	ern Jazz 1 and ropriate dance dancewear p cipate in the ar to physically p ents with long	have pre-app wear (black b purchased by nual arts sho perform in a term illnesse l education c	proval from de leotards and b the student). owcase and dr highly intense or injuries m	epartment lack tights or Nike ress rehearsal (three e , physical class on a d aay be required to be j uration of the medical	aily basis. placed into	

Modern & Jazz Dance	3	8043		1 Credit	NonWeighted	Year		
Course Description	 The course is designed to develop intermediate-advanced technique in both modern and jazz dance forms. Emphasis is on refining and enhancing technical performance at a more advanced level. The student will have opportunities to analyze movement elements, styles and principles of choreography and to create a performance composition. A variety of dance techniques will be explored-ranging from Graham and Cunningham in modern to Luigi, Fosse and Tremaine in Jazz. Evaluation for the course is based on performance tasks and rubric assessments, daily class participation, selected response testing, open ended tests, choreographic tasks. Videotaping and peer assessment will also be used to evaluate progress. Students are responsible for \$120 costume fee for Showcase. 							
Prerequisites	 responsible for \$120 costume fee for Showcase. Modern Jazz II and have pre-approval from the Department. Appropriate dance wear (black leotards and black tights or Nike Prosdancewear purchased by the student.) Participate in the annual arts showcase and dress rehearsal (three evenings). Be physically able to perform in a highly intense, physical class on a daily basis. Students with long term illnesses or injuries may be required to be placed into an adapted physical education class for the duration of the medical excuse. 							

Modern & Jazz Dance	4	8044		1 Credit	NonWeighted	Year		
Course Description	This course	offers the adva	nced dance	student/perfo	ormer the opportunit	y to further		
-					ise, analytical reasoni			
	mentoring of	portunities. T	his course ac	commodates t	he needs of the few st	udents who		
	have higher-	have higher-level dance skills when entering the dance department at C.V. (students						
		who are exempt from Intro to Dance in their freshman year). The student will work to						
	refine advar	iced dance tec	hniques and	l genres. The	e student will act as	a teaching		
	assistant/stu	dent choreogra	apher, role r	nodel, etc. Th	nere would also be a	component		
					by choreographing a s			
					professional dance te			
	choreograph	ers. Students a	re responsib	le for a \$120 co	ostume fee for Showca	ase.		
Prerequisites	Mod	ern and Jazz D	ance					
-	• App	ropriate dance	wear (black	leotards and b	lack tights or Nike			
	prosdancewear purchased by the student.)							
	Teac	her recommen	dation					

Modern & Jazz Dance	5	8055		1 Credit	NonWeighted	Year			
Course Description					ormer the opportunit				
		develop his/her skill, technique, choreographic expertise, analytical reasoning and peer							
	01	mentoring opportunities at a more advanced level. The course accommodates the needs							
	of the few students who have higher-level dance skills when entering the dance								
		department at C.V. (students who exempt Intro to Dance in their freshman year). The							
		student will work to refine advanced dance techniques and genres. The student will act							
	0		0	1	odel, etc. There wou				
	1	1 0		1	tly of the class by cho	0 1 0			
		1		0 1	prentice with profess				
		01			n a black leotard and	0			
				udent's expen	se. Students are resp	onsible for a			
		e fee for Showc							
Prerequisites	• Mod	ern and Jazz D	ance 4						
	 Appropriate dance wear (black leotards and black tights or Nike 								
		Prosdancewear purchased by the student.)							
	 Teac 	her recommend	dation						

Majorettes Drill Team	8051		1 Credit	NonWeighted	Year
Dance Troupe					
Dance Production					
Course Description	This course is designed for I routines for each season. The opportunity to practice with During the first nine-week p band festivals and parades. class or practices for Show audition, and, if selected, of Troupe will work to develo shows. Dance Troupe is al Competition and 1 National black tights or Nike Pros. T addition to the regular school that start in May and run the for 4 days. Costs for these g	h the marchi beriod, the un During the vcase. All s will be schee op performa so a compet- l Competition hese items r ol year, the su	Il provide the n ng band. The nit rehearses fo second nine-v students intere duled by the a nce skills and tition team. T on. All studer nust be purcha tudents in this mmer. Dance	majorettes and drill te class meets five (5) d r performances at foo veek period, the unit ested in taking this c advisor. Members o will participate in se They will compete at the must dress in a bl ased at the student's class will have summ troupe also attends a	am with the lays a week. tball games, takes dance course must f the Dance veral dance 3 Regional ack leotard, expense. In her practices camp in July
Prerequisites	Audition & Recommendation	nendation of	nly		

Introduction to Theatre Arts		8100		1 Credit	NonWeighted	Year	
Course Description	Tech theater costumes, an	An exploration that will cover both the technical and performance aspects of live theater. Tech theater studies will include production concepts and design for lighting sets, costumes, and make-up. Performance studies will include an introduction to the basics					
Prerequisites	 of acting, such as theater history, stage direction terminology, voice & speech, improvisation exercises, monologues & scene work. None 						

Acting 1		8201		1 Credit	NonWeighted	Year
Course Description	learn more al scenes, and opportunities feedback abo The course is to perform ir number as d	bout this art. S one act play to develop ut performanc open to all stu an acting pro	Students will ys. Class creativity w e. adents in gra duction. She the instruct	perform impr presentations while supplyin des 9 through ould request fo or and high so	ing career or who me ovisations, work on r and videotaping w ng the student with 12. All students will or this class exceed a chool principal, stud the class.	nonologues, vill provide immediate be required manageable
Prerequisites	Intro	duction to The	eatre Arts			

Acting 2 & 3		8202		1 Credit	NonWeighted	Year		
Course Description	This course if for students who want to continue their training in the art of Acting. This course is for students who are interested in an acting career or who merely want to learn more about this art. Students will perform improvisations, work on monologues, scenes, and one act plays. Class presentations and videotaping will provide opportunities to develop creativity while supplying the student with immediate feedback about performance. The course is open to all students in grades 9 through 12. All students will be required							
	to perform in an acting production. Should request for this class exceed a m number as determined by the instructor and high school principal, studen required to do a monologue audition for placement in the class.							
Prerequisites		ng 1 and/or Inf ition and teach						



Physical Education



(Back to All Course List)

The goal of the Chartiers Valley Health and Physical Education program is to encourage, motivate and prepare students to lead a healthy and active lifestyle. The Chartiers Valley Health and Physical Education programs emphasize the understanding of health related content and lifetime activities to real world situations. Students will participate in, understand, and appreciate the benefits of a healthy and active life style. Health and Physical Education plays an integral role in a comprehensive educational program. This program will engage and help inspire students to pursue a lifetime of fitness activities and healthy decisions.

ID	Course Name	ID	Course Name
8032	Physical Education (4 days)	8036	Sports Officiating & Principles of Coaching (5
			Days)
8025	Health 9-10 (4 days)	8038	Partners in Physical Education (2 Days)
8033	Adventure Activities (2 days)	8039	Adaptive Physical Education
8034	Lifetime Activities (2 days)		Dance (Descriptions in Performing Arts)
8027	Drivers Theory (5 days)		

Physical Education **Required for 9 th & 10 th Grades		8032		NonWeighted	Semester (4 days)	
Course Description	l activity. Ac ealthy active tive attitudes, the opportunit	tivities will lifestyle. T responsible y to partic	enable stude he course is c habits, and exh ipate in; swi	Education is lifetime fit nts to develop skills r lesigned to enhance ac libit good sportsmanshi mming, fitness, weig ll and ultimate Frisbee,	necessary to ctivity level, ip. Students ht training,	
Prerequisites	Non	e				

Health (9th & 10th Grad	les)	8025		.25 Credit	NonWeighted	Semester	
					(4 days)		
Course Description	Chartiers Valley Health to learn about physica importance of making Students are encourag and applying preventa scenarios and understa	l, mental ar g healthy o ged to devel tive strateg and the imp	nd soci lecisio lop op ies. St act of	al aspects of h ns that will l timal health tl udents will con personal choic	ealth. Emphasis is plead to a higher qua nrough recognizing h nnect academic conter es. Units of study inc	laced on the ality of life. health issues nt to real life clude; stress,	
	mental health, mental disorders, healthy relationships, abuse, bullying prevention, school violence, nutrition, physical fitness, non-communicable diseases, SDI's, human sexuality, CPR, first Aid, environmental health, tobacco, alcohol and drugs.						
Prerequisites	None						

Adventure Activities (2 days) **11 th & 12 th Grades		8033		.25 Credit	NonWeighted	Year (2 days)
		um focus for 11	th and 12≞ g	rade Physical I	Education is lifetime fit	· · · · ·
Course DescriptionThe curriculum focus for 11th and 12th grade Physical Educat adventurous activities and physical activity. Activities will						
	skills necessary to maintain a healthy active lifestyle. The course is designed to enha					
					sible habits, and ex	
					of activities to includ	
					, volleyball, rollerbladi	
	team buildin	ng activities, c	rienteering,	biking, recre	ational racquet sports	(pickleball,
	able tennis) an	nd drug and	alcohol unit.			
Prerequisites	• 11 th	& 12 th grade				

Chartiers Valley High School Program of Studies - 2020-2021

Lifetime Activities		8034		.25 Credit	NonWeighted	Year 2 Days
Course Description	and physical maintain a h develop pos Students will tennis, recrea	activity. Acti ealthy active li itive attitudes l be offered a	ivities will e ifestyle. Th s, responsib variety of ac sports (pick	enable student le course is de le habits, and tivities to incl cleball, badmin	ducation is lifetime fit: s to develop skills r signed to enhance ac d exhibit good spo ude: physical fitness nton, and table tennis alcohol unit.	ecessary to ctivity level, rtsmanship. , volleyball,
Prerequisites	• 11 th ā	and 12 th grade s	students	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		

Drivers Theory		8027		.5 Credit	NonWeighted	Semester	
						5 Days	
Course Description	This curricul	um will devel	op the know	ledge and att	itudes necessary for s	safe driving	
-	techniques.	The elective course introduces students to the theory and practical					
	application c	f how to opera	ate an autom	nobile, rules ar	nd regulations. Curr	iculum is in	
	accordance w	rdance with PA driver guidelines and information from the PA driver's handboo					
including strategies for identifying risk			ntifying risks	, of driving an	d their consequences.		
Prerequisites	• 10 th ,	11^{th} , and 12^{th} g	rade student	S			

Sports Officiating and		8036		.5 Credit	NonWeighted	Semester
Principles of Coaching	5					(5 Days)
Course Description	This classroom course is designed for students to study the art, science, industry					
-		standards, and best practices of the officiating profession across all levels of sport. This				
	course will provide hands-on experience working in teams, combined with a study of					
	moral and ethical philosophy along with best practices from sport thought-leaders, to					
	explore ways	to handle the	se concerns. A	At the conclusi	ion of this course stud	ents will be
	given the opportunity to become a certified PIAA sports official after they turn 18 years					
	old.	-		_		2
Prerequisites	• 9 th , 1	0 th , 11 th 12 th gra	ndes			

Partners in Physical E	ducation	8038		.25 Credit	NonWeighted	Year
					(2 Days)	
Course Description	s designed for	students w	ho are interes	ted in exploring a care	er path that	
-					The Partner in Physica	
	course (Partner PE) is an inclusive approach to physical education that pairs studer					
	with special	needs with th	eir general e	education peer	rs (peer partner). The p	peer partner
	demonstrate	s PE activities,	, motivates a	and supports	the students with spec	ial needs to
	fully partici	oate in PE clas	ss. The activ	ities are desig	gned to help promote	leisure-time
	activities and	d awareness of	the importa	ance of good p	personal fitness. Activi	ities include
	but are not limited to weight training, racquet sports, fitness, diamond sports					s, kayaking,
	swimming and team building.					
Prerequisites	• 11 th	12 th grades				

Dance						
Course Description	Handbook. P		erforming A	rts section or c	ning Arts section of th ourse numbers and p	
Prerequisites	rade levels					
(Pack to All Course List)						





ID	Course Name	ID	Course Name	ID	Course Name
3221	Biology Lab	3341	AP Chemistry	3455	AP Physics C: Electricity
					and Magnetism
3133	Honors Biology	3350	Anatomy & Physiology	3442	AP Biology
3222	Biological	3421	Practical Physics	3355	Principles of Biomedical
	Applications				Science (PBS)
3321	Applied Chemistry	3441	AP Physics 1	3360	Human Body Systems (HBS)
3331	Chemistry w/ Lab	3445	AP Physics 2	3365	Medical Interventions
3340	CiHS Chemistry	3450	AP Physics C: Mechanics	3370	Biomedical Innovation

Biology Lab		3221		1 Credit	NonWeighted	Year
Course Description	living things biology, such homeostasis and ecology. understand a through the u This course is	The emphasi as basic biolo and transport, Students will and apply their ase of case stuc s intended for s	is for the cou ogical princip cell growth work indep r skills. App dies, role pla students who	arse is on the l ples/cells, che and reproduct pendently, in s lication to real ys, hands on a p may or may p	a solid foundation of big ideas and unifyin mical basis of life, bi ion, genetics, theory of mall groups and larg world concepts are ctivities and laborator not be college bound a higher level science e	g themes in oenergetics, of evolution ge groups to emphasized ry exercises. and
Prerequisites	None	9				

Honors Biology		3133	Honors	1 Credit	5.0 Weight	Year
Course Description	the study of I themes in bio life, bioeners genetics, ecol review. Stuc concepts. T exercises wh motivated, co	iving things. T logy. Topics in getics, homeos ogy, and evolu dents will wo he course inc en appropriat	The framewor nclude basic stasis and c ation. It is a rk both inde corporates h ce. This cou and typicall	rk for the cours biological prin ell transport, rigorous cours ependently an and-on activi urse is intend y will take or	provides an in-depth se is on the big ideas a aciples/cells, the chem cell growth and re- se that requires daily id in groups to appl- ties, role plays, and ed for students that and or more Advanced	nd unifying nical basis of production, reading and y biological laboratory are highly
Prerequisites	 93% in 8th grade science Teacher recommendation 					

Biological Application	IS	3222		1 Credit	NonWeighted	Year		
Course Description	Biological Applications is a one year course that builds on basic biological concep explore the diversity of life on Earth. The emphasis of the course is to investigate traits of bacteria, viruses, protists, fungi, plants, and animals, as well as the rol biotechnology. The students will participate in various laboratory investigation order to observe the various forms of life and will also integrate current events to b understand the complexity of life. The topics will allow students to understand appreciate the role of biodiversity, as well as the importance of biological diversit modern day society. The course is intended for students who may or may not be col bound.							
Prerequisites	Biolo	gy Lab or Hon	ors Biology					

Applied Chemistry		3321		1 Credit	NonWeighted	Year
Course Description	non-science i principles of classroom ac contribute to ideas orally courses by th mathematica laboratory. T structure, no	related field. The chemistry thro ctivities, small the development and in writing the depth and nu l analysis reque Copics covered menclature, rea	nis course pr ugh classroo scale labs a ent of the stud with clarity umber of top ired and the l in this cou actions, stoic	ovides studen m lectures and and research a dent's ability to and logic. This ics addressed, nature and va urse are dime hiometry, and	ts planning to pursue ts with an understand discussions, online a assignments. This cor- b think clearly and to e his course differs fro- slower pace, the mini- ariety of experiments nsional analysis, ma gas laws. ement for Advanced	ling of basic ssignments, urse should express their m the other imal level of done in the tter, atomic
Prerequisites	• 70%	or better in Alg	gebra 1 OR si	uccessful comp	pletion of Biological A	pplications

Chemistry w/ Lab		3331		1 Credit	NonWeighted	Year	
Course Description	This is a 1 st y	ear chemistry	course intend	ded for studer	its planning to attend	college in a	
-	non-science i	non-science related field. This course provides students with an understanding of basic					
	principles of chemistry through classroom lectures and discussions, PHET simulations,						
	classroom ac	tivities, and la	boratory tec	hniques. This	course should contra	ibute to the	
	development of the student's ability to think clearly and to express their ideas orally and						
	in writing with clarity and logic. This course differs from the other courses by the depth						
	and number	of topics addre	essed, pace, t	he level of ma	thematical analysis r	equired, the	
	time commit	ment spent on	the course l	by the studen	ts, and the nature an	d variety of	
	<i>,</i> 1			<i>y</i> 1	ics covered in this		
	dimensional	analysis, matte	er, atomic st	ructure incluc	ling radioactive deca	y, quantum	
					chiometry, bonding, a	nd gas laws	
Prerequisites	• 70%	in Biology OR	pass Honors	Biology			
	• 80% in Algebra 1 AND 70% or better in Geometry						
	Teac	her Recommen	dation				

CiHS Chemistry		3340	CiHS	1 Credit	5.0 Weight	Year
Course Description	semester coll college in a s understandir discussions, contribute to ideas orally courses by mathematica courses by th are at colleg atomic struct quantum me gases. Since this con students who for students	ege level chem science or non- ng of basic p classroom ac the developme and in writing the depth and l analysis requine students. Th e level. Topics ture, nomencla chanics, period	istry course science relat principles of tivities, and ent of the stud with clarity d number of ired, and a g e nature and covered in ture, stoichi ic table, peri ed through 1 5 college cre- mistry.	and is intende ed field. This of chemistry the laboratory the dent's ability to y and logic. The of topics addre greater time correl d variety of exp this course a iometry, reaction odic trends, boo Duquesne Universed edits. CIHS CI	course that is equival d for students planni course provides stude prough classroom le echniques. This cou- o think clearly and to en- is course differs fro- ressed, fast pace, hi nmitment then all oth periments done in the re matter, dimensior ons, solutions, therm nding, molecular geo- versity, there is a fee in hemistry is highly rec	ng to attend ents with an ectures and urse should express their m the other gh level of her first year e laboratory hal analysis, hochemistry, metries, and
Prerequisites	• 93%	in Honors Biol or better in Alg	gebra 1 ANE		in Geometry	
	Teac	her Recommen	dation			

AP Chemistry		3341	AP	1 Credit	5.5 Weight	Year
Course Description	equivalent to planning to a related areas provides the Chemistry su student's abi clarity and lo the course it Placement Ex Exam as a co Failure to con in this course	two semester in college. Lak rigorous traini ubject based tes lity to think clu- ogic. This is a ri- self is fast pac am offered in 1 omponent of the nplete summer explores the ar- kinetic molecu	s of college for chemistr poratory wor ng needed f st. This cours early and to igorous cours ed in order May of the so his course. So r assignment eas of atomic	level chemist y, engineering rk is an integra or success on t se should cont express their rse that require to have stude chool year. Stu ummer readin ts will result in c structure, che	ement chemistry con rry and is intended f g, medical fields or o al part of the course. the AP chemistry test ribute to the develop ideas orally and in v es a large time commi ents prepared for the dents are expected to g and assignments a n a grade penalty. Top emical bonding, chem y, electrochemistry a	for students ther science This course and SAT II oment of the vriting with itment since e Advanced take the AP re required. pics covered ical kinetics,
Prerequisites	• 70%	in CIHS Chemi	istry or 90%	in Chemistry v	w/Lab	

Anatomy & Physiolog	y	3350		1 Credit	NonWeighted	Year		
Course Description	This junior a	nd senior elec	ctive course	is designed to	be a rigorous, in dep	oth study of		
-	human anato	my and physi	ology. The s	tructure, funct	tion and imbalances ((diseases) of		
	body system	s will be stud	died includin	ng skin, muso	uloskeletal, nervous,	, endocrine,		
	cardiovascular, blood, respiratory, digestive and the special senses. This course would							
	be recommended for students that are interested in pursuing a career in the medical field							
	such as physical	sicians, physic	ian assistan	ts, nurses, me	dical technologists,	paramedics,		
	scientists, ph	ysical therapis	ts, occupatio	nal therapists,	geneticists, technician	ns, forensics		
	and bioinform	natics. This co	ourse is not a	replacement f	or AP science courses	s.		
Prerequisites	Successful completion of Chemistry							
	• Teac	her recommen	dation					

Practical Physics		3421		1 Credit	NonWeighted	Year
Course Description	This is a first year Physics course intended for students planning to pursue a care non-science related field. This course provides students with a basic understand matter and energy through classroom lectures and discussions, online assign classroom activities, labs and projects throughout the year. Students wi mathematical analysis along with conceptual application of concepts to solve real problems. A basic investigative approach dealing with the interrelationships of motion and forces is studied. These topics lead to the investigations of various for energy such as light, sound, electricity, and magnets.					
Prerequisites	• Geor	essful completi netry pleted chemist her Recommen	ry	s Geometry or	75% or higher in Cor	nbined

AP Physics 1		3441	AP	1 Credit	5.5 Weight	Year
Course Description	Advanced Placement Physics 1 is a first year physics course that is equivalent to semester college course in algebra-based physics. This course will focus on stu problem solving and lab skills. Students will cultivate their understanding of P through inquiry-based investigations while integrating technology into the labo environment. Topics covered will be Newtonian Mechanics (including rota motion), work, energy, power, mechanical waves, sound and introduction to s circuits.					
Prerequisites		6 Chemistry or		Chemistry		
	• Leac	her recommend	aation			

AP Physics 2		3445	AP	1 Credit	5.5 Weight	Year
Course Description	equivalent to will focus or understandir such as fluid and probabi	a second semi- n students' pro- ng of Physics the statics and dy lity; electrosta	ester introdu oblem solvin hrough inqu namics; ther itics; electric	ictory college- ig and lab skil iry-based inve- modynamics w cal circuits w	elective physics con- level physics course. Ils. Students will cu- estigations as they ex- with kinetic theory; P ith capacitors; mag d quantum, atomic, a	This course ltivate their plore topics V diagrams netic fields;
Prerequisites		essful completi her Recommen		ysics 1 or 90%	in Practical Physics	

AP Physics C: Mechanics		3450	AP	.5 Credit	5.5 Weight	Semester		
Course Description	The Physics C: Mechanics elective course is equivalent to a one-semester, calculated based, college-level physics course. It is especially appropriate for students planning specialize or major in physical science or engineering. The course explores topics s as kinematics; Newton's laws of motion; work, energy and power; systems of particle and linear momentum; circular motion and rotation; and oscillations and gravitation introductory differential and integral calculus is used throughout the course.							
Prerequisites	Successful completion of AP Physics 1							
	Succe	essful completi	ion of AP Ca	lculus or curre	ntly enrolled			

AP Physics C: Electricity and		3455	AP	.5 Credit	5.5 Weight	Semester		
Magnetism								
Course Description	Advanced Placement Physics C: Electricity and Magnetism is an elective one- semester, calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in physical science or engineering. The cours explores topics such as electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. Introductory differential and integral calculus is used throughout the course.							
Prerequisites	 Successful completion of AP Physics 1 Successful completion of AP Calculus or currently enrolled 							
Prerequisites		1		5	ntly enrolled			

AP Biology		3442	AP	1 Credit	5.5 Weight	Year		
Course Description	The Advance	ed Placement B	Biology cours	e is an electiv	e designed to be the e	quivalent of		
	a college biol	a college biology course usually taken by biology majors during their first year of college.						
	The course aims to provide students with the conceptual framework, factual knowledge,							
	and analytical skills necessary to deal critically with the rapidly changing world of							
	biology. The curriculum is built around the four big ideas in AP Biology. They include							
	1.) The process of evolution drives the diversity and unity of life. 2.) Biological systems							
	utilize free energy and molecular building blocks to grow, reproduce and maintain							
	dynamic ho	meostasis. 3.)	Living syste	ems store, ret	rieve, transmit and	respond to		
	information e	essential to life	processes. 4.) Biological sys	stems interact. These s	systems and		
	their interact	tions possess o	complex pro	perties. Exter	ision homework and	laboratory		
	work are req	uired. Students	s are expecte	d to perform e	extensive readings in	biology and		
		to take the AP	0,					
Prerequisites	Succe	essful completi	on of Biolog	y and concurre	ently enrolled or com	pletion of		
	Chemistry							
	Teac	her Recommen	dation					

Principles of Biomedie	cal Science (PBS)	3355	PLTW	1 Credit	5.0 Weight	Year	
Course Description	This is the first course offering in the Project Lead the Way Biomedical Sciences curriculum. This rigorous elective course is offered to 9 th and 10 th grade students who may be interested in various professions in the medical field including, but not limited to <i>physician assistant, nurses, medical technologists, paramedics, scientists, physical therapists, occupational therapists, genetic counselors, technicians and bioinformatics.</i> Student work involves the study of human medicine, research processes, an introduction						
	to bioinformatics, and to model and analyze and various health hypercholesterolemia death of a fictional per might have prolonge metabolism, inherita embedded in the cu feedback loops and curriculum. This co Biomedical Sciences	d the use of e biologica conditions a and infec- erson, and d the person nce of tra- urriculum. the relation urse is de program a	f computer I systems. S s including ctious disea investigate on's life. Ko hits, feedba Engineerin onship of s signed to p nd lay the f	science, math Students inve- cheart disea life-style cho ey biological ck systems a ng principles tructure to for ovide an ov coundation for	hematics, and informatestigate the human be estigate the human be use, diabetes, sickle-or ermine the factors that pices and medical treat concepts including he and defense against s including the desi- function are incorpor- verview of all the cor- pr subsequent courses	ation theory ody systems cell disease, at led to the atments that omeostasis, disease are gn process, rated in the urses in the	
Prerequisites	Science teach	er or scho	ol counselo	or recommend	dation		

Human Body Systems	(HBS)	3360	PLTW	1 Credit	5.0 Weight	Year				
Course Description			0	,	the Way Biomedic					
	curriculum. This is a rigorous elective course offered to 10 th and 11 th graders that have									
	-	1			interested in profess					
	medical field including physicians, physician assistants, nurses, medical technologists,									
	paramedics, scientists, physical therapists, occupational therapists, geneticists,									
	technicians, f	orensics and b	ioinformatics	3.						
		In the Human Body Systems (HBS) course, students examine the interactions of body								
	2	7 1	2	1	wer, movement, pro					
			-	0	e the structures and t					
			-		monitor body functi					
					respiration. Explorin	0				
		0			lanikin, work through	0				
			1 2		al professionals to so uctured activities and					
					them to develop					
		on, communica				, plaining,				
Prerequisites		ciples of Biome			ai oniiio.					
		her recommend		·						

Medical Interventions		3365	PLTW	1 Credit	5.0 Weight	Year	
Course Description	This is the t	hird course of	fering in the	e Project Lead	d the Way Biomedic	al Sciences	
-	curriculum. This rigorous elective course is offered to 11th and 12th grade students that						
	have completed Principles of Biomedical Science and Human Body Systems.						
	In Medical Interventions, students follow the life of a fictitious family as they investigate						
	how to prevent, diagnose, and treat disease. Students explore how to detect and fight						
	infection; scr	een and evalu	ate the cod	le in human I	ONA; evaluate cance	r treatment	
					gins to fail. Through		
	cases, studen	ts are exposed	to a range of	f interventions	related to immunolo	gy, surgery,	
	genetics, pha	rmacology, me	dical device	s, and diagnos	tics.		
Prerequisites	Prince	iples of Biome	dical Science	e and Human I	Body Systems		
	Teac	ner recommend	dation				
	• May	be taken concu	urrently with	Biomedical Ir	novation		

Chartiers Valley High School Program of Studies - 2020-2021

Back to Top Back to Course List

Biomedical Innovation	ı	3370	PLTW	1 Credit	5.0 Weight	Year		
Course Description	In this capstone elective Project Lead the Way course, students apply their knowled and skills to answer questions or solve problems related to the biomedical science Students design innovative solutions for the health challenges of the 21st century as the work through progressively challenging open-ended problems, addressing topics suc as clinical medicine, physiology, biomedical engineering, and public health. They have the opportunity to work on an independent project and may work with a mentor advisor from a university, hospital, physician's office, or industry. Throughout the course, students are expected to present their work to an adult audience that mat include representatives from the local business and healthcare community. (PLTW website 2016)							
Prerequisites	 Principles of Biomedical Science and Human Body Systems Currently enrolled or completion of Medical Interventions Teacher recommendation 							



Social Studies



(Back to All Course List)

Two years of American History are required for graduation from Chartiers Valley High School. This requirement in most cases, should be fulfilled in grades 9 and 11. One year of World Cultures is required for graduation and is usually completed in the 10th grade.

Numerous interesting electives are offered. There are course offerings dealing with law and government, economics, psychology, famous personalities and time periods. These courses are designed to create an understanding of the human story to guide our civic, professional, and personal lives. Students are strongly encouraged to select one or more of these electives.

Advanced Placement courses in United States History, Law and Government, Macroeconomics, Microeconomics, and Psychology are available to students who have demonstrated proficiency in the disciplines and are recommended by the Social Studies faculty.

ID	Course Name	ID	Course Name	ID	Course Name
4000	Development of the United	4345	Shaping of the Modern World	4406	Economics
	States				
4002	Honors - Development of the	4346	AP U.S. Government and	4407	Law and Government
	United States		Politics		
4005	World Cultures	4347	AP Psychology	4409	AP Macroeconomics
4006	Honors World Cultures	4348	AP United States History	4410	AP Microeconomics
4010	Contemporary US/Global	4405	Psychology		
	Studies				

Development of the U	nited States	4000		1 Credit	NonWeighted	Year	
Course Description	This 9 th grade	required course	e in social s	tudies is a sur	vey of United States l	history from	
-	1800-1945. Th	e century and a	half is a pi	votal period in	n our history when w	e developed	
	as a world pov	as a world power. Students will examine the consolidation of the United States after the					
	American Revolution, the epic struggle over the issue of slavery leading to the Civil War,						
	the growth of the country through immigration, industrialization, urbanization, and the						
	conquering of	the frontier.	Then, stu	dents will stu	dy the conflicts of t	the late 19 th	
	(Spanish-Ame	rican War) and	d early 20t	^h (World War	I) centuries that cat	apulted the	
	nation onto t	he world spot	light. The	e study ends	with examining the	two major	
	challenges to	the American s	tate in the	20th century,	the Great Depression	and World	
	War II. Stude	ents will learn t	to take not	es, write subs	tantive essays, comp	lete project-	
	based assignm	nents, become i	involved in	n seminars, ar	nd other activities that	at make the	
	course active learning. This course will be conducted at a moderate pace.						
Prerequisites	None						

Honors – Development of the United States		4002	Honors	1 Credit	5.0 Weight	Year
Course Description	development content descr on track to ta of the compl	of the United ibed above wi ke Advanced F	States at a Il be the mate Placement con American h	highly accele erial for the co urses so the stu	the opportunity to rated pace. The sam urse. Students in thi ady is rigorous and ta ats will also be challed	e years and s course are kes on more
Prerequisites	 85% or better in 8th grade Social Studies Teacher recommendation 					

World Cultures		4005		1 Credit	NonWeighted	Year
Course Description	East, Latin A course explor religious beli- interdepender rights. Stude better underse experienced to and critical a in a concise cooperative so The first sem Industrial Re Imperialism, course will c	merica, East As res various poli- efs; and econor- ence as it relat ents will be re- tand specific e- them firsthand nalysis; summ manner; expi- etting; and use ester of the co- evolution, Rev- World War I,	sia, and Afric itical ideolog mic systems. tes to cultur gularly expo vents or time . Students w arize, catego ress facts and technology ourse will co olutions in 1 and the Ru war Period, N	ca from the 170 ries; gender rol Students will e, resource m periods from ill refine their prize, compare, appropriately ver the Enligh Latin America ssian Revoluti World War II,	es of people in Europe 20s through the prese 20s the expected to unders 20s anagement, conflict 20s anagement,	nt day. The ns; conflicts; stand global and human in order to people who prehension lation; write bitions in a m. volution, the alism, New lester of the
Prerequisites	None	2				

Honors World Culture	s	4006	Honors	1 Credit	5.0 Weight	Year			
Course Description		0	1	0 0	der roles, social or				
					mic systems will b				
		throughout the course. Students will investigate global interdependence as it relates to							
		culture, resource management, conflict and human rights. Students will be expected to							
		understand the historical content and to make historical connections between the past							
	-	and present through analysis of current affairs. Students will be exposed to primary							
					ic events or time perio				
					thand. Students will				
					d critical analysis;				
	U	1			n; write in a concise st	<i>y</i> 1			
	-			-	duce exhibitions in a	1			
	setting; and ı	itilize technolo	gy appropria	ately to presen	t and comprehend in	formation.			
	The first sem	nester of the co	ourse will be	a comprehens	sive study of the Enl	ightenment,			
				-	ions in Latin America	0			
	Nationalism,	New Imperial	ism, the Grea	at War and the	Russian Revolution.	The second			
	semester of t	he course will	cover the Int	terwar Period,	World War II, the Co	old War, the			
	Emergence o	f New Nations	, Regional C	onflicts and the	e Developing World.				
Prerequisites	• 85%	in Honors Ame	erican Cultu	res					
-	• 90%	Advanced Am	erican Cultu	res					
	Teac	her recommend	dation						

Contemporary US/Glo	bal Studies	4010		1 Credit	NonWeighted	Year			
Course Description	This course w	vill guide stu	adents from	the beginnir	ng of World War II t	hrough the			
	early 21st ce	ntury. Stude	ents will ex	xamine the p	political, economic,	social and			
	cultural development of the United States from the end of World War II to present								
	times. The essential standards of American History will trace the change in the ethnic								
	composition of American society; the movement toward equal rights for racial								
					ates as a major world				
	1 1		1 0		al government and fe				
					idual and the state.				
					understanding of the				
	effect relationship between past and present events, recognize patterns of interactions, and understand the impact of events on in the United States in an interconnected world.								
D		a the impact	of events on	in the United S	states in an interconne	ectea world.			
Prerequisites	 None 								

Shaping of the Modern	n World	4345		1 Credit	NonWeighted	Year				
Course Description	This College	in the High	School elect	ive course is	a study of the world	l of the 20 th				
-	2	century and into the 21 st century. It will examine the forces and shaping agents that have								
	1 0	produced great changes since circa 1900 and integrate the United States experience with								
	that of Europe, Asia, Latin America, and Africa. An intense study of the last 50 years									
		will give the students a better perspective and understanding of their own world and								
	have the knowledge and skills to be able to project the foreseeable future of the modern world.									
	Students will be exposed to rigorous primary sources, assignments and thinking that they will experience in college. "Blue book" essays are a common assessment that are used in colleges.									
	Since this course is articulated through Duquesne University, there is a fee involved for students who want to earn college credits. Students may obtain three college credits.									
Prerequisites	• 85%	in Advanced o	r Honors Soc	cial Studies						
	• Teac	her recommen	dation							

AP U.S. Government a	AP U.S. Government and		AP	1 Credit	5.5 Weight	Year
Politics						
Course Description	Description Advanced Placement U.S. government and politics in general concepts used to examples. The institutions and politics will be studied consequences, and the stru College-level texts and other				ctive course includes tem and the analysis that constitute U.S. overnment, political b ur government will b	the study of s of specific government ehavior and be reviewed. Preparation
Prerequisites		and 12 th grade		2,		

AP Psychology		4347	AP	1 Credit	5.5 Weight	Year			
Course Description	Psychology is the scientific study of the human mind and behavior. The purpose of this								
-	Advanced Pl	Advanced Placement/College in the High School elective course is to further acquaint							
					cal thinking skills, ex				
	cultural per	cultural perspectives, analyze popular media claims, and examine published							
	psychological research. The course is a combination of lecture, lab activities, cooperative								
	activities, research essays, and presentations. Sample topics include personality,								
	-		1 2	0,	ry, and learning. St				
	-		0	2	f Pittsburgh will con	1			
					do not purchase the G				
	are expected	to take the AP	Psychology	exam at the co	nclusion of the course	e.			
Prerequisites	• 90% i	n Psychology	or						
-	• 85% i	n AP United S	tates History	y					
		n CIHS Shapii		dern World					
	Teacl	ner Recommen	dation						

AP United States Histo	ory	4348	AP	1 Credit	5.5 Weight	Year			
Course Description	Advanced P	Advanced Placement U.S. History (APUSH) is a rigorous college-level introductory							
_	course, whic	h examines the	e nations' po	olitical, diplom	natic, intellectual, cult	tural, social,			
					H is arguably one o				
	challenging	of the courses	offered by	the College H	Board. As a result, a	a variety of			
		nstructional approaches are employed and a college level textbook is supplemented by							
	1 2	primary and secondary sources. Significant outside reading and assignments are							
	required for a	success in this	course.						
			0	1	nts develop critical th	0			
		0	2		y with the complex	2			
	1		2	1 2	of topics, discussions	s and tempo			
					college level courses.				
			year with a N	Jational Exam	from College Board is	n May.			
Prerequisites		and 12 th grade							
	• 90%	• 90% in an Honors course or							
	• 95%	in an Advance	d social stud	ies					

Psychology		4405		1 Credit	NonWeighted	Year
Course Description	research met include scie perception, s course will cl	hods, and cont ntific methods tates of consci	tributions to s in psycho iousness, lea nts to use the	the understar ology, biologi urning, memor eir metacognit	y and its basic concept ding of human beha cal psychology, sen y, cognition and lan ive abilities in order t self.	vior. Topics sation and guage. This
Prerequisites	• 11th	and 12th grade	2			

Economics		4406		1 Credit	NonWeighted	Year	
Course Description	This elective course emphasizes analysis of the American economic system as it to the individual and other economic systems. Specific units will cover microecc issues such as the law of supply and demand, factors of production, and the bu- cycle. Macroeconomic issues will include money and banking, monetary and policy, international trade and comparative economic systems. We will be touch the history of economic thought as well as current economic issues. The our uncertainty regarding the economy make this an exciting and challenging course						
Prerequisites	• 11 th (or 12 th grade					

Law and Government		4407		1 Credit	NonWeighted	Year		
Course Description	Law and Government, an elective , is the study of the fundamentals of our American government along with a review of our justice system. Essentially, the class is divided into two components: Civics and Street Law. With the study of government, students will learn why we have government, types of government, and characteristics and principles of democracy. Studies will focus on our U.S. Constitution, specifically the Bill of Rights, and how these rights are exercised every day.							
	The class will then transition into a study of our criminal justice system with a focus on our due process rights. The criminal justice process will be reviewed from arrest through sentencing. Guest speakers will be utilized throughout the school year to compliment the curriculum and a field trip to the Allegheny County Courthouse will allow students to witness our justice system in action. Throughout the school year, students are encouraged to be aware of current events which will be discussed in class.							
Prerequisites	• 11 th a	and 12 th grade						

AP Macroeconomics		4409	AP	1 Credit	5.5 Weight	Year		
Course Description	The goal of t	his elective co	ourse is to g	give students a	thorough understar	nding of the		
-					individual decision n			
					n. It places primary e			
		the nature and functions of product markets, and includes the study of factor markets						
		and the role of government in promoting greater efficiency and equity in the economy.						
	This full year course will also integrate the study of both fiscal and monetary policies as							
	J 11 J		0		ourse is a combinatio			
					sis, and presentation			
					at the conclusion of			
					Failure to comple	te summer		
	assignments	will result in a	weighted pe	enalty.				
Prerequisites	• 11th	or 12 grade						
	• 90% :	• 90% in Honors World						
		in AP U.S. or C		3				
	Teacl	her recommend	dation					

AP Microeconomics		4410	AP	1 Credit	5.5 Weight	Year				
Course Description	Advanced P	Advanced Placement Microeconomics, an elective, is an introductory college-level								
_					that apply to the f					
		individual economic decision-makers. The course also develops students' familiarity								
		with the operation of product and factor markets, distributions of income, market failure,								
		and the role of government in promoting greater efficiency and equity in the economy.								
	Students lear	n to use graphs	, charts, and	data to analyz	e, describe, and explai	in economic				
	concepts.									
Prerequisites	• 11th	or 12 grade								
_	• 90%	in Honors Wor	ld							
	• 85% in AP U.S. or CIHS Shaping									
	Teac	her recommend	lation							



World Languages



(Back to All Course List)

All students have the opportunity to study a modern language at some stage of their educational experience and should be allowed to continue the study as long as their abilities and interests keep them involved. Knowing a language is a matter of mastering basic habits of reacting to sounds, structures and vocabulary. It is recommended that students study one language until they have achieved proficiency. Advanced students are encouraged to study a second and even a third language.

All students who want to communicate in a modern language and learn the culture, characteristics, and customs of that particular language and its people can find a program that meets their needs. All World Language courses are electives

ID	Course Name	ID	Course Name	ID	Course Name
5011	French 1	5022	German 2	5112	Spanish 3
5012	French 2	5023	German 3	5114	CiHS Spanish 4
5013	French 3	5024	CiHS German 4	5116	AP Spanish Language
5014	CiHS French 4	5108	Spanish 1	5117*	Spanish Communication through
					Contemporary Topics
5021	German 1	5110	Spanish 2		
* _ N.a	Caura				

* = New Course

French 1		5011		1 Credit	NonWeighted	Year
Course Description	communicate emphasis plac culture, includ component. I addition, stude games, and pro to incorporate Also, students monsieur sand proficiency-ba	on everyday a red on the skill ling study of the Music and film ents also take p opects. Integrate authentic mater of participate in dwiches, and 1 sed, and studes	topics in ls of listen ne country n clips are vart in a va d Performa rials, speak cultural e earning al nts are exp	the present an ing, speaking as well as a u used to reinf riety of creativ ance Assessme ing opportunit xperiences suc pout French h pected to com	ademic learner, stude and near future, with and pronunciation. nit on Paris, is a ver- orce concepts and s re activities, including nts (IPA) are used wit ties and listening com th as making crêpes oliday traditions. The municate as much as om directions in Frence	n particular The French y important kills too. In g role-plays, h every unit prehension. and croque te course is possible in
Prerequisites	• 75% ir	n 8 th Grade Fren	ich or Teac	her recommen	dation	

French 2		5012		1 Credit	NonWeighted	Year
Course Description	This elective course continues to develop the proficiency of previously mentioned skills. Dialogues, pattern practice, and question-answer exercises play an important role. Word placement and foundation grammar work into developing competency in both reading and writing.					
Prerequisites	 75% in French 1 (2nd semester) Teacher recommendation 					

French 3		5013		1 Credit	NonWeighted	Year
Course Description	emphasis on well as shor French litera century Fren level. Studer interpersona proficiency b grammar ski Students wil	reading and wa t essays. More ture and non-fi ch art, French its use Integrat l communicat y integrating re lls are introduc	riting. Stude: emphasis is iction cultura heritage and ted Performa ion, presen eading, writin ed, but stude speaking p	nts write longe s placed on ir al pieces relati d other topics. ance Assessme tational com ng, listening co ents are expect	g and speaking while er and more complex s adependent reading of ing to French Africa, A film study is inclu- ent lessons (interpret- munication) to incomprehension and spe- ed to apply skills alrea- essments in accordar	sentences as of authentic 19th & 20th uded at this ive reading, rease their eaking. New ady learned.
Prerequisites		in French 2 (see her Recommen		er)		

CiHS French 4		5014	CiHS	1 Credit	5.0 Weight	Year			
Course Description	In this full year, College in the High School course, students learn to speak with more fluency, practicing and expanding upon previously learned grammar concepts such as past time (including imperfect tense and plus que parfait), future time, and pronouns (relative, direct, indirect) as well as reinforce structures such as the subjunctive and the conditional. Students read independently at a more advanced levels, keep a journal, and writings are longer and more sophisticated. There is a focus on advanced conversation, listening comprehension, and more extensive reading and writing. Film clips from the text and authentic French films with detailed follow-up are used as a resource to enhance proficiency. This course is articulated through Duquesne University and students have the opportunity to earn 3 credits in French 201. There is a fee involved for students opting to earn the university credits.								
Prerequisites	• 80%	in French 3 (se	cond semest	er)					

German 1		5021		1 Credit	NonWeighted	Year
Course Description	understandir Basic speech these new s concepts are	ng, speaking, an patterns are in peech patterns	nd writing ir ntroduced ar s and adapt ne student m	n German with nd practiced o t them to var	ler to develop com in a restricted area of rally. Students will the ying situations. Base sponsibility of self-di	vocabulary. hen practice ic grammar
Prerequisites		aders - 75% in		odern Languag	ge class.	
	Teac	her recommend	dation			

German 2		5022		1 Credit	NonWeighted	Year
Course Description	speaking and v controlled rea expanded and	writing skills. ding increas completed.	Vocabulary es as the y Conversatic	is introduced rear progresse on and other	ntinues to develop the more rapidly, and the es. Basic grammar control activities are state cipline and self-direct	e amount of oncepts are ressed. The
Prerequisites	 75% in German 1 (2nd semester) Teacher recommendation 					

Back to Top

German 3		5023		1 Credit	NonWeighted	Year
Course Description	while increas active and pa level. Supple	ing emphasis assive vocabula mentary audio The student mu	on reading a ary. Gramma excerpts, vio	nd writing. Th ar continues to leos, and webs	iciency in listening an nere is extensive build be developed at an it sites reinforce situatio f self-discipline and so	ling of both ntermediate nal German
Prerequisites	• 75% in German 2 (2 nd semester)					
	• Teac	her Recommen	dation			

CiHS German 4		5024	CiHS	1 Credit	5.0 Weight	Year
Course Description	development and literary to cultural trend Since this cou	of oral and wi exts, review gr ls and issues.	ritten skills. ammar in the red through l	Students will r e context of site Duquesne Uni	e is designed to co read and discuss selec nations and readings, versity, there is a fee i	ted cultural and explore
Prerequisites	 80% in German 3 Teacher Recommendation 					

Spanish 1		5108		1 Credit	NonWeighted	Year
Course Description	in Spanish – language lea: use of Spanis	listening, spe rning is introd h. Students who a	aking, readin uced; knowle	ng, and writin edge of other s	to acquire basic profi ng. A content based a subjects is reinforced School District have t	approach to through the
Prerequisites	 Students who did not take Spanish in Grade 8 at Chartiers Valley; or Students with less than 75% in Grade 8 at Chartiers Valley Spanish; or Students who are new to Chartiers Valley School District. Teacher Recommendation 					

Spanish 2		5110		1 Credit	NonWeighted	Year	
Course Description	topics and c	This is a full-year elective course that incorporates a mix of everyday conversational topics and content-based lessons connected primarily to English and Social Studies					
		ncrease in lang l speaking prae	, 0 I	ency is accom	plished through readi	ng, writing,	
Prerequisites	seme	-		ers Valley or S	Spanish 1 at Chartier	s Valley-2 nd	

Spanish 3		5112		1 Credit	NonWeighted	Year
Course Description	This is a full-year elective course that incorporates a mix of everyday conversational topics and content-based lessons connected primarily to Humanities themes. Students will expand their vocabulary and grammar knowledge while building proficiency with				es. Students	
	more extensi	ve reading, wri	iting, listenir	ıg, and speakiı	ng tasks.	
Prerequisites	• 75% in Spanish 2 – 2 nd semester					
-	Teac	her Recommen	dation			

CiHS Spanish 4	5114	CiHS	1 Credit	5.0 Weight	Year	
Course Description	emphasis on listening for c mastery of es Hispanic cou Since this cou	extensive read comprehensior sential gramm ntries are an ir	ling, writing and promot atical concep ntegral part c red through l	z, and commu ing fluency in ots is expected. of the course. Duquesne Univ	ers an advanced curri nication skills. There speech. An ability to c Historical and cultur versity, there is a fee i	is focus on lemonstrate al aspects of
Prerequisites	 80% in Spanish 3 Teacher Recommendation 					

AP Spanish Language		5116	AP	1 Credit	5.5 Weight	Year
Course Description	The purpose	of Advanced	Placement (AP) Spanish I	anguage is to guide	students to
-	greater profi	ciency and mor	re accurate a	pplication of la	anguage skills by usir	ng authentic
	resources in	meaningful sit	tuations. Lis	tening, speaki	ng, reading, and wri	iting within
	thematic uni	ts will augmen	t and enhan	ce vocabulary	and grammar acquis	ition. In AP
	Spanish Lan	guage, studen	its will com	nmunicate in	interpersonal, interp	pretive, and
	presentationa	al scenarios	within the	five goal an	reas (Communication	n, Culture,
	Connections,	Comparisons,	and Comm	unities) outlir	ed in the Standards	for Foreign
	Language Le	arning in the 2	1 st Century.	The course is a	similar to most third-	year college
	and universi	ty courses that	focus on spe	eaking and wr	iting in the target lan	guage at an
	advanced lev	vel. Failure to	complete th	e summer ass	signments will result	in a grade
	penalty.					
Prerequisites	80% in CIHS Spanish 4					
-	Teac	her Recommen	dation			

Spanish Communication		5117		1 Credit	Unweighted	Year
through Contemporary	y Topics					
Course Description	In this course, students will increase their Spanish proficiency in speaking, writing,					
					ry topics related to t	
NEW		ing world. Authentic resources such as films, novels, and current events wil				
					hinking and writing o	
	in this course	e will continue	to prepare st	tudents for pos	st-secondary educatio	on.
Prerequisites	• 75% in CIHS/Spanish 4 or Teacher Recommendation <u>or</u>					
-	• 75% in AP Spanish Language or Teacher Recommendation					



Parkway West Career & Technical Center



Chartiers Valley School District is one of twelve school districts participating in the Parkway West Career and Technology Center. Parkway West offers specialized trade and technical courses that are not available at the high school. During their freshman, sophomore, junior and senior year, selected students will attend Chartiers Valley High School (afternoon) for a half-day and the other half will be spent at Parkway West (morning). The personnel of Parkway West will select students based on their abilities, grades, maturity, aptitudes, and interests. Upon completing the course of studies at the technical school and the high school, the student will receive a certificate from Parkway West Career and Technology Center and a diploma from Chartiers Valley High School. Parkway West aids graduates with job placement in their fields of study.

Students attending Parkway West Career and Technology Center will not be scheduled for electives at CVHS.

Students who successfully complete Parkway West CTC programs may be eligible to earn articulated college credit from the following post-secondary institutions:

Belmont Technical College	Butler County Community College
California University	Community College of Allegheny County
Empire Education Group	ITT Technical Institute
New Castle School of Trades	Pennsylvania College of Technology
Pittsburgh Culinary Arts Institute	Pittsburgh Technical Institute
Rosedale Technical Institute	Triangle Tech. Inc.
University of Northwest Ohio	-
Scholarships from the above post-secondary institute	es and from industry

Career & Technical Specialties: (Back to All Course List)

ID	Course Name	ID	Course Name
9113: 4 Credits	Auto Body Repair	9173: 4 Credits	Health Occupations Technology
9313: 3 Credits		9373: 3 Credits	
9119: 4 Credits	Automotive Technology	9155: 4 credits	Cyber Security & Network Technology
9319: 3 Credits		9355: 3 credits	
9137: 4 Credits	Construction Technology Cluster	9185: 4 credits	Public Safety Technology
9337: 3 Credits		9385: 3 credits	
9143: 4 Credits	Cosmetology	9375: 4 credits	Sports Medicine and Rehabilitation
9343: 3 Credits		9376: 3 credits	Therapy Technology (SMARTT)
9161: 4 Credits	Culinary Arts	9193: 4 credits	Veterinary Assistant Technology
9361: 3 Credits		9402: 3 credits	
9190: 4 Credits	Graphic Arts & Production	9120: 4 credits	Diesel Technology
9389: 3 Credits	Technology	9320: 3 credits	

Academic Courses Available at Parkway

ID	Course Name	ID	Course Name
9238	Chemical Properties in Practice	9220	US History
	Comparable to Applied Chemistry		• Comparable to Development of the U.S.
9234	Principles of Technology	9223	World History
	Comparable to Practical Physics		Comparable to World Cultures
		9221	U.S. History II
			Comparable to Contemporary US History

Back to Top

Auto Body Repair		9113 9313		4 Credits 3 Credits	NonWeighted	Year
Course Description	Education Fou for repair and collision dama also includes p analysis. Stu computerized a full-service a	ndation (NATE replacement of ge and replace painting, MIG w dents gain exp estimating, and uuto body repai	EF) and pro of damage quarter p velding, co perience ir l auto deta ir shop. St	vides instructi d automobile anels, door sk llision repair, n mixing and iling. Practica rudents have t	Jational Automotive on in the most curren parts. Students leas ins, and fenders. The frame straightening, a tinting paint, custo l experience is provid he opportunity to ear y are eligible to earn l	t techniques rn to repair curriculum and damage m painting, ded through rn PPG Blue
Prerequisites	None				0	

Automotive Technolog	gy	9119		4 Credits	NonWeighted	Year	
	9319		3 Credits				
Course Description	0, 0						
Prerequisites	None	2					

Construction Technology Cluster		9137 9337		4 Credits 3 Credits	NonWeighted	Year		
Course Description	First-year students spend nine weeks in the following four courses offered in the Construction Technology Cluster. They are <i>Building Construction Technology, Electrical Systems Technology, Welding Technology, and Masonry</i> . Upon successful completion of the rotation, second-year students may choose to pursue certification in one of the following areas for the remainder of their time at PWCTC:							
	Carpentry A student in the carpentry program will apply technical knowledge and skills to layout, fabricate, erect, install and repair structures and fixtures using hand and power tools, scaffolding, and specialty tools used in the construction trade. This program includes instruction in common systems of framing, construction materials, estimating, blueprint reading and finish carpentry techniques. Students will be given the opportunity to earn a 10-hour Occupational Safety and Health Administration (OSHA) Construction Card. Students have the potential to earn 17 certifications through NCCER.							
	The Electrical of the electrica light industria wiring, maint programmable covered. Adhe	Systems Technology rical Systems Technology program teaches students the integral componen ctrical industry for entry level employment in residential, commercial, and/o astrial locations. The basis of instruction is in the layout, assembly, installation naintenance, and trouble-shooting of electrical systems. Understandin mable logistical controls (PLC's) and how transformers operate are als Adherence to the National Electric Code is emphasized throughout this cours trade safety procedures. This program may lead to additional career pathway						

	such as an Electrical Drafter, Electrical Technicians, Electrical Engineers, Electrical Power-Line Installers and Repairers, Meter Readers/Utilities, Control and Valve Installers/Repairs, and Locomotive Engineers, to just name a few. Additionally, students will be given the opportunity to earn a 10-hour Occupational Safety and Health Administration (OSHA) Construction Card and may have a greater opportunity to join the International Brotherhood of Electrical Workers' Union (BAC) after graduation.
	<u>HVAC/R</u> Heating, Ventilation, Air-Conditioning, and Refrigeration, which has been newly renovated with state-of-the-industry equipment, provides instruction in basic and advanced electrical theory, troubleshooting and repair of residential and commercial heating, air-conditioning, and refrigeration systems. Students will be given the opportunity to earn a 10-hour Occupational Safety and Health Administration (OSHA) Construction Card.
	Welding Technology Welding Technology covers several types of welding by which metal may be bent, cut, or welded together, including oxy-fuel, shielded metal arc, gas metal arc, gas tungsten arc, flux core welding, carbon arc, plasma cutting, and oxy-fuel brazing. Students will learn the importance of industry safety, measuring instruments, hand tools, grinders, metallurgy, blueprint reading, electrical principles, layout/design, and fabrication, as well as how to prepare materials lists for cost estimates. Students have the opportunity to earn several American Welding Society (AWS) certifications.
Prerequisites	None

Cosmetology		9143		4 Credits	NonWeighted	Year
Course Description	aspects of ha supported ar anatomy and nails, and sca who practice days a week. about interpe- technical kno mannequins, program for course requi which encom who are able the following Nail Technic completed w to perform na Cosmetology at least one o and can be o qualified to	9343 logy program p air, skin/nail b ad reinforced w l physiology, as lp. This program real-world ser Utilizing an in proval relation owledge and sl classmates, and three years will rements to tak passes providi to take one or g specialized lice tian License: T ithin one year. ail technology served to the above lice completed with	veautification with theoretic s well as stru- am helps stu- rvices in Par- ntegrated ap s, profession kills. Techn ad the general have the op e the state l ing services two years of two years of ensed fields This license An individe services only se: Prerequis- ensures. Thi- in one year- functions of	3 Credits dents to perfor a and persona cal background acture, function adents develop kway's salon, proach to teach iques and abil al attitude, and iques and abil al public. Stud portunity to ea licensing exam to the public for f instruction in crequires 200 H ual holding a r f. site for this cou s license requi	rm technical services i al maintenance. The d including sanitation n, and disorders of the into well-rounded pre- which is open to the hing and learning, str d career fundamental lities are practiced ar dents who are able to arn 1,250 hours of sta n to be a licensed co or hair, skin, and nai n this program may of nours of instruction nail technician license tres is having success ires 500 hours of requiral holding a teacher whichever specialize	ncluding all se skills are a, chemistry, te hair, skin, rofessionals, e public two udents learn s along with ad tested on o attend this te-regulated smetologist, ls. Students choose from and can be e is qualified fully passed tired studies t's license is
Prerequisites	• None	2				

Culinary Arts		9161 9361		4 Credits 3 Credits	NonWeighted	Year
Course Description	buffet, and a the operation restaurant en pastries and s many differe Arts Level I. and III. Seni have the op	la carte styles o a and manager wironment to p select meats are nt types of cuis Second and th or students wi	f food prepar nent of an ir provide good sold. Stude sine. First-y- nird-year stu ho have com- parn both th	ration. Practica h-house, full-se ls and services nts learn to des ear students sp dents will adv upleted at least e National Re	on in the preparation al experience is provident ervice restaurant and for Parkway's food s sign cakes, sculpt ice, bend one school year ance into Culinary A two years of Culina estaurant Association trification.	led through beyond the store, where and prepare in Culinary rts Levels II ry Arts will
Prerequisites	None	2				

Diesel Technology		9120		4 Credits	NonWeighted	Year
		9320		3 Credits		
Course Description	manufacturing maintenance, a military vehicl diesel equipme and maintain fundamentals Recovery Cert	y industries. In and overhaul les, trucks, tra ent industry e diesel equi of hydraulic ification. Stuc ervice Excelle	n Diesel Tech of diesel po ins, buses, c xpands, the pment will s and have dents can eat	nology, stude: wered equipm onstruction and demand for me continue to the opportune rn certification	transportation, constr nts will learn about th nent. Diesel engines a ad agricultural equipr echanics and technicia grow. Students wil ity to earn an Air C as from the National 09, Class I & III State	e operation, are found in nent. As the ans to repair l learn the conditioning Institute for
Prerequisites	None					

Graphic Arts & Produ	Graphic Arts & Production			4 Credits	NonWeighted	Year
Technology	9389		3 Credits			
Course Description	individuals to commercial an graphic and composition, c techniques. En digital printing	apply techr d industrial v printing ec ligital printin nphasis is on g, bindery an large format	nical knowle visual image quipment. S g and binder typographic d finishing t digital printi	dge and skill and print prod Students learn y as well as ph cal layout and cechniques, ink ing with applie	uctional program th s to plan, prepare, a ucts using mechanica n desktop publishin totography and other design using comput s and color preparatic cation of a wide varie el design.	and execute l and digital ng, layout, graphic arts er graphics, on. Students
Prerequisites	None			**	~~~~~	

Health Occupations Technology		9173		4 Credits	NonWeighted	Year
		9373		3 Credits		
Course Description	range of rea healthcare p emergency n observation, will have the for Healthcar Health Care	l-world clinica roviders. Clini ursing, recover pharmacy, phy opportunity to re Providers" co industry: Penr	1 and job sl ical experier y room nurs sical/occupa o earn and c ertification a nsylvania Sta	nadowing exp aces may inclu ing, radiology, ational therapy omplete the A nd the followi ate Nurse Aid	portunity to participa eriences at many dif ude: child care, long medical records, ope 7, and/or lab technicia merican Heart Assoc ng certifications in re Registry (C.N.A.). F	ferent local term care, rating room an. Students iation "CPR lation to the or first and
	second year students, instruction begins with anatomy, physiology, and medical terminology. Special attention is given to medical office examinations, treatment, and patient care. Personal Care Home Direct Care Staff: For first and second year students,					
	patient care.	Personal Care	Home Direc	t Care Staff: Fo	or first and second ye	ar students,

Chartiers Valley High School Program of Studies - 2020-2021

	this component offers a competency test from the PA Department of Public Welfare and it prepares students to work in a personal care home as a direct care giver.
	Pharmacy Technician Certification (CPhT): After successful completion of this one-year, 12 th grade course, students will assist the pharmacist in a variety of tasks. Module and lab work includes: controlled substances, laws and regulations, drug classifications, frequently prescribed medications, prescription information, preparing/dispensing prescriptions, calculations, sterile products, unit dose, and repackaging.
	Phlebotomy Technician Certification (CPT): This is a one semester certification course directed towards 12 th grade students. Module and lab work includes: anatomy and physiology, infection control, safety and compliance, patient preparation, collection techniques, and processing of collected sample(s). Students must demonstrate a minimum of 30 successful venipunctures and 10 successful capillary punctures.
Prerequisites	None

Cyber Security & Network		9155		4 Credits	NonWeighted	Year
Technology		9355		3 Credits		
Course Description	This program prepares students who are interested in networking and compute				-	
	diagnostics.	It begins with	h Cisco IT	Essentials, PC	C Hardware and sol	tware, and
	networking of	operating syste	ems. Student	s initially prep	are for CompTIA A+	and Comp
	TIA Server +	ever + certifications and then, through Cisco CCNA Discovery course, students				
	learn networ	king concepts l	based on type	ical networks t	hat one might encour	nter in home
	or small office, or in larger more complex enterprise models. Finally, students can					
	prepare for the Cisco CCENT and Cisco CCNA certifications.					
Prerequisites	None	e				

Public Safety Technology		9185		4 Credits	NonWeighted	Year	
		9385		3 Credits			
Course Description	services, firef to successfull in all public hazardous m judicial syste following cer Emergency M	The Public safety Technology program focuses on careers relating to emergency medical services, firefighting, law enforcement, and emergency management services. In order to successfully complete the program, students must meet minimum proficiency levels in all public safety areas. Instruction is provided in disaster situations/management, hazardous materials handling, pre-hospital medical care, map reading, firefighting, the judicial system, and emergency dispatching. Students have the opportunity to earn the following certifications: Emergency Medical Technician – Basic (EMT-B), Basic Vehicle Rescue (BVR), Emergency Vehicle Operators Course (EVOC), Hazardous Materials Recognition and Identification					
Prerequisites	None						

Sports Medicine and		9375		4 Credits	NonWeighted	Year
Rehabilitation Therapy		9376		3 Credits		
Technology (SMARTI	")					
Course Description	The Sports Medicine and Rehabilitation Therapy Technology (SMARTT) Program					
	prepares students to work in the field of physical therapy, occupational therapy and					
	sports medicine. Students will develop skills in prevention, diagnosis, differential					
	diagnosis, assessment, prognosis and the rehabilitation of injuries and other health					
	conditions. Students will learn the principles of developing a plan of care including:					
	evaluation, interventions (exercise, manual therapy, modalities and neuro re-education),					
	assessment, goal setting and discharge. Students will also learn how to develop a proper					
	diet for healthy individuals and tailor it for special populations through a					
	comprehensive understanding of nutrition. Upon successful completion, students					

Chartiers Valley High School Program of Studies - 2020-2021

	should be able to assist in the development and implementation of a plan of care for healthy and special populations.
	Careers available directly out of the program could include: Personal Trainer, Coach, and Physical Therapy Aid. This program also provides a solid educational base on which to build a post-secondary degree or advanced certification. Careers available with additional post-secondary schooling include: Personal Trainer, Athletic Trainer, Physical Therapist, Physical Therapist Assistant, Occupational Therapist, Certified Occupational Therapist Assistant, Strength and Conditioning Coach, Medical and Exercise Physiology Researcher, Sports Psychologist, Dietitian and Exercise Physiologist.
Prerequisites	• None

Veterinary Assistant Technology		9193 9402		4 Credits 3 Credits	NonWeighted	Year	
Course Description	records, sche nursing dutie also gain a s program ma Breeders, No Animal Cor Veterinarian.	In the Veterinary Assistant Technology program students will learn to keep medical records, schedule, offer client education, practice laboratory procedures, assist with nursing duties, prepare for surgeries, and assist during a routine exam. Students will also gain a solid educational base on which to build a post-secondary degree. The program may lead to additional career pathways such as Animal Trainer, Animal Breeders, Non-Farm Animal Caretakers, Laboratory Animal Caretakers, Groomer Animal Control Worker, Veterinary Technician, Veterinary Technologist and Veterinarian. Upon accreditation, students may earn the Purina Certified Weight Coacle Pharmacy Technician, and Veterinary Assistant certifications.					
Prerequisites	None	2					

Back to Main Menu



Chartiers Valley School District

Board of School Directors

Jeff Choura Robert Kearney (Vice President) Brian Kopec Eric Kraemer Mark Kuczinski (President) Darren Mariano Anthony Mazzarini Julie Murphy Sandra Zeleznik

Central Office Administration

Johannah Vanatta, Ed.D., Superintendent Scott Seltzer, Assistant Superintendent Misty Slavic, Ed.D., Assistant Superintendent Amy Wodnicki, Ed.D., Director of Student Services

High School Administration

Patrick Myers, Principal Robert Butts, Assistant Principal Tim Murray, Assistant Principal