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
 - School Motto: Character, Virtue, Honor, and Scholarship
 - School Mascot: Colt

<u>Alma Mater</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)





*Click on the section title to go to that section

General Program Information			Page 4
Graduation Requirements			4
Graduation Credit Planner			5
Keystone Requirements			5
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
Canceled Courses			9
Career Exploration & Student Portfolios			10
Advisory Program			11
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
Homework			14
Class Participation			14
Absence from Class			14
Class Rank and Commencement (Class of 2023 and after)			15
Departments and Courses			Page 16
Complete Course Listing by Department			16
Applied Engineering & Technology (AET)			19
Art			26
Business			31
Career & Community Learning Opportunities			34
<u>Computer Science</u>			35
English			37
Family & Consumer Science			43
Mathematics			45
Performing Arts			49
Physical Education			54
Chartiers Valley High School Program of Studies - 2023-2024	Back to Top	<u>Back to Course List</u>	<i>pg</i> . 2

<u>Science</u>	56
<u>Social Studies</u>	61
World Languages	65
Parkway West Career & Technical Center	69

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)



General Program Information



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

<i>Minimum Requirements</i> 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 7 Credits			
Advisory 1 Credit (.25 per year)			
26 Credits (minimum) are required for graduation, beginning with the Class of 2023			

**Computer Science courses, with the exception of Cybercrime & Digital Forensics, 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.

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 120 hours of community service over four (4) years. Students may begin accumulating hours as soon as they complete eighth grade. Proof of hours and a service log should be submitted to the school counselor.
- 2. Seniors deficient in credits for graduation may obtain a maximum of 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)				
Physical Education (1) (.25 per year 9-12)				
Arts & Humanities (3)				
Electives (7)				
Advisory (1) (.25 per year 9-12)				
Total Required (26)				

Graduation Credit Planner (2023 and beyond)

Keystone Graduation 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>.

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 of the same year.
- Earning a passing grade on the courses associated with each Keystone Exam, and satisfactorily completing 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 passing 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 demonstrating 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

r op Asseniory Senedule				
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

Two-flour DC	Two-flour Delay 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 Mrs. Leah O'Malley, Counselor last names G - N Mrs. Danyelle Boyd, Counselor last names O - Z	412.429.2629	<u>lkunkel@cvsd.net</u> <u>lomalley@cvsd.net</u> <u>dboyd@cvsd.net</u>
Ms. Molly Clokey, Attendance Secretary Ms. Sherri Gillim, Secretary		<u>mclokey@cvsd.net</u> <u>sgillim@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 to search by the course name or 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 by using the Request Change form until April 7, 2023.

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 a 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 ten (10) 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 withdrawal/fail grade is approved by the principal.
- Withdrawal from a course after the 10th 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 7, 2023. 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.

Canceled 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.

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

The Pennsylvania Department of Education (PDE) 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 (PDE) 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 grades K-8
- Eight additional pieces of evidence collected during the 9-11 grade span
- At least two pieces of evidence from grades 9-11 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: <u>https://student.naviance.com/chartiersvhs</u> (Google Single Sign-on enabled)

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

Grading and Reporting of Progress

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 end of year.

Final exams cover material from each of the four grading periods and 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.

<u>Quarterly Grades</u>

• 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 midterm 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)
- *Final Grade*: Average of semesters 1 and 2

Grade calculations with a midterm 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 Courses	CiHS & 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%	В-	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

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	7451	AP 2D Design
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) 5.5 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. 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; therefore, participating in the course requires an investment of time, effort, and money. Since these high school courses also result in college credit, the student must request an official transcript from the college or university to transfer credits. 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 its own guidelines for the minimum grade that will 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:

- CiHS Advanced Video Broadcasting (*Point Park*)
- AP Psychology (Dual Described University of Pgh)
- CiHS Spanish 4 (Duquesne University)
- AP Statistics (Dual Described Duquesne University)
- C++ (Duquesne University)
- CiHS Calculus (Duquesne University)
- CiHS Nutrition (University of Pittsburgh)

- CiHS Commun/Rhetoric (University of Pittsburgh)
- CiHS Introduction to Film (*University of Pittsburgh*)
- CiHS French 4 (Duquesne University)
- CiHS German 4 (Duquesne University)
- CiHS Shaping Modern World (Duquesne University)

5.5 Weighted Scale

_	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
				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

<u>Online Tools</u>

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".

<u>Appeal of Grade</u> (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.

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

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

Class Participation (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.

<u>Absence from Class</u> (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 negatively impact a student's academic progress, and failure to complete assigned work 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 teacher consultation.

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

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. Beginning with the class of 2023, 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.

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.

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.



Courses of Study (Back to Menu)



	Applied Engineering & Technology (AET)							
ID	Engineering	ID	Shop/Trade Skills	ID	Make/Model/Move			
6901	Engineering 1	6921	Woodshop 1	6961	CAD 1			
6902	Engineering 2	6922	Woodshop 2	6962	CAD 2			
6903	Engineering 3	6926	Construction Systems	6911	Architecture 1			
6904	Engineering 4	6931	Metalshop 1	6912	Architecture 2			
6905	Engineering 5	6932	Metalshop 2	6963	Robotics 1			
ID	Visual/Multimedia	6923	Woodshop 3	6964	Robotics 2			
6941	Graphic Design 1	6924	Woodshop 4	6965	Transportation Systems			
6942	Graphic Design 2	6933	Metalshop 3	6826	Applied Environmental Sustainability			
6951	Video Production 1	6934	Metalshop 4	6936	Fab Lab			
6952	Video Production 2	6925	Advanced Woodshop 5	6966	Aviation Technology (UAV)			
6509	CiHS Advanced Video Broadcasting	6935	Advanced Metalshop 5					
	Art							

	<u>Art</u>						
7107	Exploratory Art (9-11)	7106	Drawing	7401	Senior Studio Art		
7011	Exploratory Art (12)	7112	Drawing 2	7445	Honors Studio Art		
7103	Animation	7113	Drawing 3	7460	AP Studio Art		
7104	Ceramics	7108	Painting	7480	Advanced Digital Art & Design		
7116	Ceramics 2	7114	Painting 2	7455	Honors Digital Art		
7117	Ceramics 3	7115	Painting 3	7451	AP 2D Design		
7105	Crafts & Mixed Media	7109	Printmaking				
7476	Digital Art & Design	7110	Sculpture				

	Business							
6010	Introduction to Accounting	6050	Introduction to Business Concepts	6065	Marketing Dynamics			
6056	Accounting 2	6041	Retail Operations 1	6080	Sports and Entertainment Marketing			
6051	Foundations of Personal Finance	6042	Retail Operations 2	6045	Brewing Success 1			
	Career & Community Learning Opportunities							

Computer Science						
6062	AP Computer Science Principles	2653	CiHS C++	26	2 Introduction to Com Programming	puter
2635	AP Computer Science A	6021	Cybercrime and Digital Forensics	26	8 Introduction to Artif Intelligence & Machi Learning	
			<u>English</u>			
1111	English 9/Composition 1	1350	AP Language & Composition	1365	AP Research	
1131	English 9 Advanced/ Composition 1	1422	World Literature 12/Composition 4	1503	SAT Prep	
1132	Honors English 9/Composition 1	1426	Advanced World Literature 12: Voices in World Lit & College Writing	1507	Creative Writing	
1211	English 10/ Composition 2	1355	AP Literature & Composition	1504	CiHS Introduction to F	ilm
1231	English 10 Advanced/ Composition 2	1502	CiHS Communications/ Rhetoric	1510	Introduction to Screenp Writing	olay
1232	Honors English 10/ Composition 2	1509	Yearbook Production & Media Writing			
1324	Language and Composition	1532	Journalism/Yearbook			
1325	Advanced Language & Composition/11	1360	AP Seminar			
		Famil	y & Consumer Scier	nce		
8511	Introduction to the World of Food and Nutrition 1	8501	Child Development and Family Relations	852	0 Introduction to Inter Design	ior
8512	Ethnic and Regional Cuisine and Nutrition 2	8513	Culinary Arts & Food Science	85	6 Partners in the Kitch	en
			Mathematics			
2121	Pre-Algebra	2211	Cognitive Geometry	241	3 CiHS Calculus	
2122	Algebra 1	2212	Combined Geometry	242	3 AP Calculus AB	
2123	Cognitive Algebra I	2244	Honors Combined Geometry	243	0 AP Calculus BC	
2131	Cognitive Algebra 2	2145	Algebra 3	251	5 AP Statistics	
2132	Algebra 2	2313	Trigonometry/Analysis	251	6 Analytics & Statistics ir	n Sports
2143	Honors Algebra 2	2403	Honors Pre-Calculus			
		Ī	Performing Arts			
7501	Cadenza Chorus	8041	Modern & Jazz Dance 1	810		
7505	Select Chorus	8042	Modern & Jazz Dance 2	810	0	re
7511	Band	8043	Modern & Jazz Dance 3	820	0	
7521	Orchestra	8044	Modern & Jazz Dance 4	820		
8040	Introduction to Dance	8055	Modern & Jazz Dance 5	754	2 Music Theory	
		8051	Majorettes – Drill Team – Dance Troupe – Dance Production			

	Physical Education							
8032	Physical Education	8034	Lifetime Activities (2 days)	8038	Partners in Physical Education (2 Days)			
8025	Health	8027	Drivers Theory		Dance (See Performing Arts)			
8070	Personal Fitness & Healthy Living	8036	Sports Officiating and Principles of Coaching	8514	CiHS Nutrition			

			<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
3210	Physical Science	3422	Physics	3355	Principles of Biomedical Science (PBS)
3209	Explorations of Life on Earth	3441	AP Physics 1	3360	Human Body Systems (HBS)
3331	Chemistry w/ Lab	3445	AP Physics 2	3365	Medical Interventions
3332	Honors Chemistry	3450	AP Physics C: Mechanics	3370	Biomedical Innovation

	Social Studies							
4000	Development of the United States	4345	Shaping of the Modern World	4406	Economics			
4002	Honors - Development of the United States	4346	AP U.S. Government and Politics	4407	Law and Government			
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 Studies	4405	Psychology					

	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 9313	Auto Body Repair	9161 9361	Culinary Arts	9185 9385	Public Safety Technology		
9119 9319	Automotive Technology	9190 9389	Graphic Arts & Production Technology	9375 9376	Sports Medicine and Rehabilitation Therapy Technology (SMARTT)		
9137	Construction Technology	9173	Health Occupations	9193	Veterinary Assistant		
9337	Cluster	9373	Technology	9402	Technology		
9143 9343	Cosmetology	9155 9355	Cyber Security & Networking Technology	9234	Principles of Technology		
9238	Chemical Properties in Practice	9220	US History	9221	U.S. History II		
9120 9320	Diesel Technology	9223	World History	9225 9224	Power MotorSports		



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



All applied engineering and technology course sequences are listed below.

	<u>Applied</u>	Engin	eering & Technolog	gy (A	<u>\ET)</u>
ID	Engineering	ID	Shop/Trade Skills	ID	Make/Model/Move
6901	Engineering 1	6921	Woodshop 1	6961	CAD 1
6902	Engineering 2	6922	Woodshop 2	6962	CAD 2
6903	Engineering 3	6926	Construction Systems	6911	Architecture 1
6904	Engineering 4	6931	Metalshop 1	6912	Architecture 2
6905	Engineering 5	6932	Metalshop 2	6963	Robotics 1
ID	Visual/Multimedia	6923	Woodshop 3	6964	Robotics 2
6941	Graphic Design 1	6924	Woodshop 4	6965	Transportation Systems
6942	Graphic Design 2	6933	Metalshop 3	6826	Applied Environmental Sustainability
6951	Video Production 1	6934	Metalshop 4	6936	Fab Lab
6952	Video Production 2	6925	Advanced Woodshop 5	6966	Aviation Technology (UAV)
6509	CiHS Advanced Video Broadcasting	6935	Advanced Metalshop 5		

Engineering 1		6901		.5 Credit	Unweighted	Semester	
Course DescriptionStudents dig deep into the engineering design process by applying math, science, engineering standards to hands-on projects. They work both individually and in to design solutions to a variety of problems using 3-D modeling software. Studen introduced to the engineering profession and a common approach to the solution engineering problems through an engineering design process. Students will prog from completing structured activities to solving open-ended projects.							
Prerequisites	• Grades 9, 10, 11, & 12						

Engineering 2	_	6902		.5 Credit	Unweighted	Semester	
Course Description	Through engaging and challenging problems, students explore a broad range engineering topics, including mechanisms, the strength of structures and material and automation. Students develop skills in problem solving, research, and desig while learning strategies for design process documentation, collaboration, ar presentation.						
Prerequisites		es 9, 10, 11, & 1					

Engineering 3		6903		.5 Credit	Unweighted	Semester
Course Description	Manufactured items are part of everyday life, yet most students have not been introduced to the high-tech, innovative nature of modern manufacturing. This cou illuminates the opportunities related to understanding manufacturing and electror At the same time, it teaches students about manufacturing processes, product design robotics, and automation. Students will also work with 3D printers and CNC Equipment to complete projects.					
Prerequisites	• Succ	cessful completi	on of Engine	eering 1 & 2		

Engineering 4		6904		.5 Credit	Unweighted	Semester
Course Description	in the real-v often have r build on ev Students wi	vord it does not multiple solutio erything studen ill be given oper	work like th ns with many nts have learn n-ended prob	at. Engineerin y pathways to ed in the previ lems to solve.	ngular path to success og teaches students tha achieve success. This ious three Engineerin Working in teams, st , and generate workin	at problems course will g courses. udents will
Prerequisites	• Suc	cessful complet	tion of Engine	eering 1, 2, & 3		

Engineering 5		6905		1 Credit	Unweighted	Year
Course Description			lution, ts apply the			
Prerequisites	• Suc	ccessful complet	tion of Engine	ering 1, 2, 3, 4		

Architecture 1	_	6911		.5 Credit	Unweighted	Semester
Course Description	ideas, princip setting. This ir both a cultural hands-on exe understanding of Architectur virtual 3D mo	les, and met ntroductory co l expression a ercises in d g the work of re,such as co del home tha	thods of ex ourse will te and technica rawing and architects. S mposition, t helps defin	ploring archit each students h l achievement d modeling Students will l form, space a ne their desigr	roduces high school ectural problems in low to understand arc . Review of classic bu will bring students ook at some of the des ind hierarchy, and the . The semester course career in architecture	a beginner hitecture as tildings and closer to sign aspects en create a e is open to
Prerequisites	• Grade	s 9, 10, 11, & 1	12			

Architecture 2		6912		.5 Credit	Unweighted	Semester
Course Description	semester class problems in ar	that builds on advanced ag mercial build	n the ideas, oplication se ling models.	principles, and tting. Students The semester	<i>tecture</i> 2 is a continual methods of architect will create and desig course is open to hig chitecture.	ural n advanced
Prerequisites	 Successful completion of Architecture 1 Grades 9, 10, 11, & 12 					

Chartiers Valley High School Program of Studies - 2023-2024

Woodshop 1	6921		.5 Credit	Unweighted	Semester	
Course Description	This semester course p the proper use of tools the areas of safe tool ar joinery. Students will ta prepared to move into hands-on learning and	in the Woo nd machine ake home a Woodshop	d lab. This operation, small scale 2. This is a	course is des basic materi project built great course	igned to instruct s al processing, and t from scratch and	tudents in simple be
Prerequisites	• Grades 9, 10, 1	1, & 12				

Woodshop 2		6922		.5 Credit	Unweighted	Semester	
Course Description	This semester course provides a secondary look into wood, the world's most common material. Students who elect to take this second offering will be introduced to new joinery processes such a raised panel, pocket-hole, and more. Students will create a project to take home that demonstrates their attention to detail and understanding of the processes learned. This is a great course for any student interested in hands-on learning and closing the skills-gap.						
Prerequisites	Grad	essful complet es 9, 10, 11, & ner Recommen	12	shop 1			

Woodshop 3		6923		.5 Credit	Unweighted	Semester
Course Description	while continu students in the set-up. A ma proper order	uing to focus o ne areas of proj ijor emphasis v	n safety in th ject blueprin will be placed Students wi	ne laboratory. T t reading, mate d on perfecting ill construct a l	evel use of tools and This course is designe erials calculations, an g techniques and iden high-quality,medium-	d to instruct d machine tifying
Prerequisites	• Grad	essful complet es 10, 11, & 12 ner recomment	only	shop 1 & 2		

Woodshop 4		6924		.5 Credit	Unweighted	Semester	
Course Description	This semester course provides students with the advanced use of tools and safety in the laboratory. A continuation of Wood Shop 3, it explores form, functions, and utili of wood products through students' design and creation of projects in the wood lab. This course provides opportunities to design and create a unique piece of woodwork						
Prerequisites	 Successful completion of Wood Shop 1, 2 & 3 Teacher recommendation 						

Advanced Woodshop 5	5	6925		1 Credit	Unweighted	Year		
Course Description	This year-long course will introduce students to the design and product multiples through hands-on exploration in many areas, such as furnitur and tabletop. Building on skills learned in Woodshop 1-4, students adva woodworking skills and explore a variety of shaping, joining, surfacing techniques. Students are introduced to jig making, CNC routing, and sy clamping and gluing. Emphasis is put on creating high performance, du ecological, cost-effective manufacturing and product production strateg							
Prerequisites	• Successful completion of Wood Shop 1, 2, 3 & 4							

Construction Systems		6926		.5 Credit	Unweighted	Semester
Course Description	residential dy regulations a materials esti construction	vellings and st nd building co mations, tools build. Student	orage buildi des, site sele and techniq ts will build	ngs. This cour action and devo ues as well as a shed/playho	methods and materia rese introduces permits elopment, design and a full scale hands-on puse that will be sold interested in hands-or	6, l planning, at the end
Prerequisites	• Grad	es 9, 10, 11, & 1	12			

Metalshop 1		6931		.5 Credit	Unweighted	Semester	
Course Description	This course will be an introductory overview of the processes of beginner metalw Simple processes such as basic pattern making, folding, bending, shearing, and cu will be explored. Students will work both in the classroom and lab and also will l expected to understand and demonstrate shop safety every day. This course may combined with Metals 2 for a full-year experience. This is a great course for any student interested in hands-on learning and closing the skills-gap.						
Prerequisites	• Grades 9, 10, 11, & 12						

Metalshop 2		6932		.5 Credit	Unweighted	Semester		
Course Description	new topics su Cutting. Stu CNC Plasma shop safety e	ich as spot wel dents will wor Room. Studen	lding, folding ck in the clas its will also k is a great co	g, integration of ssroom, compu- be expected to	ls 1 and will be comb of CAD, and CNC Pla iter lab, Manufacturir understand and demo rudent interested in h	isma ng Lab, and onstrate		
Prerequisites	Successful completion of Metalshop 1							
	• Grades 9, 10, 11, & 12							

Metalshop 3		6933		.5 Credit	Unweighted	Semester
Course Description	This course builds upon the skills learned in Metals 1 and 2 and advances Welding. Students will learn the essential functions and responsibilities of a the basics of reading welding blueprints, and proper machine set-up and main Students will apply the skills learned in this course to complete various activities. This is a great course for any student interested in hands-on learn closing the skills-gap. EXAMPLE PROJECT: Treasure Chest					
Prerequisites	Successful completion of Metals 1 & 2					
	 Grad 	les 10, 11, & 12	only			

Metalshop 4		6934		.5 Credit	Unweighted	Semester
Course Description	while expan For this cou them to sho understandi quality proc	ding on their a rse, students w wcase the skill ng of the avail luct. This is a	abilities and vill create a p s learned. So able machin great course	understanding project by incor uccessful stude es and process for any studer	s learned in Metals 1, g of the metal working porating strategies th ents will demonstrate es available to them a at interested in hands / Desk Workstation.	g processes. hat allow a firm and build a
Prerequisites		essful complet es 10, 11, & 12		51,2&3		

Chartiers Valley High School Program of Studies - 2023-2024

Advanced Metalshop S	5	6935		1 Credit	Unweighted	Semester
Course Description	design and p 1-4, students ultimately a f equipment ir encouraged t using all pric drilling, CNC	idents to create their ing on skills learned i s, plans, mock-ups, ar ents will have access MIG Welders. Studer hing they will be prou velding, cutting, gring great course for any s gap.	in Metal nd to all nts will be nd of while ding,			
Prerequisites	 interested in hands-on learning and closing the skills-gap. Successful completion of Metals 1, 2, 3 & 4 Grades 11 & 12 only 					

MultiMedia Tech@AET

Graphic Design 1		6941			.5 Credit	Unweighted	Semester
Course Description	experienc photograp offset pre Photoshop pictures, o	e in di phy, imag ss printir p, Illustr designing	fferent ar ge manipu ng. All proj ator, and	eas of v lation, scr ects will b Lightroon making, o	visual comm een printing e designed u n. This cour	nunications. Top t-shirts, vinyl d sing Adobe ® CC se is for studen	b give each student bics include digital ecal production, and C products, including ts who enjoy taking ndamental course for
Prerequisites	• G	rades 9, 1	10, 11, & 12				

Graphic Design 2		6942		.5 Credit	Unweighted	Semester
Course Description	This exciting course is an include digital drawing advertisements, editing ar design layouts, and condu- with projects that are ch advanced techniques in principles of great graphic glass etching, photography	, tracing nd retouch ucting a c nallenging Adobe Ill design. P	typogr ling ima lesign c: , rewarc ustrator, rojects ii	aphy and ges, designi ritique. This ling, and fr Photoshop nclude multi	text effects, creating and creating a course encourage un. Each student , and Lightroom i-colored vinyl dec	ating print logo, print es creativity will learn as well as
Prerequisites	 Successful completion of Graphic Design 1 Grades 9, 10, 11, & 12 					

Advanced Graphic De	sign	6943		1 Credit	Unweighted	Year
Course Description	Advanced Graphic Desig digital illustration, digital i is expected, including bra media. Each student is re designs, portfolio prepara further, and students will which will include logo d methodology to analyze a explored in the fields of Ma	maging, a nding and sponsible tion and p be given lesign. Act and form	nd page l packag for pro presentat more ch tivities c alate rea	layout. Indi- ing as well duction of o tion. The de allenging gr all for stude l world solu	vidual and collabo as prototyping for lesign products, c sign process will 1 caphic tasks and as ents to apply probl ttions. Career opti	rative work interactive ritiquing of be explored ssignments, lem solving
Prerequisites	 Successful complete 	tion of Gra	phics 1	& 2 OR teach	ner recommendatio	n

<u>Back to Top</u>

Video Production 1			69	951		.5 Credit	Unweighted	Semester
Course Description Prerequisites	expect challes interv techni PSA, I interes	emester course ts a high level of nging and requin iew and Filmin ques in Adobe 1 Music Videos and sted in CVTV or Grades 9, 10,	creativit e time ar g technie Premiere d show ir want to b	y and nd tho ques. . Stud ntrodu pe a pa	a willin ought to Each lents w octions.	e Middle Sch ngness to thin complete. P student wil ill work on This course	nool Media Team nk outside the bo rojects include le ll continue to le projects, such as is a must for stu	n. This course ox. Projects are earning proper arn advanced Commercials, dents who are
Video Production 2	•	· ·		952		.5 Credit	Unweighted	Semester
Course Description	level of and r screen advan Comn studen is a m	This semester course is an extension of video production 1. This course expects a level of creativity and a willingness to think outside the box. Projects are challeng and require more time and thought to complete, including learning proper gr screen techniques to film green screen videos. Each student will continue to le advanced techniques in Adobe Premiere. Students will work on projects, such Commercials, PSA, Music Videos, and show introductions. Toward the end of semes students will begin to work on small group morning shows to air on CVTV. This cor is a must for students who are interested in CVTV or want to be a part of the h school morning show.						
Prerequisites	•	Grades 9, 10,	-					
	Completion of Video Production 1							
CiHS Advanced Video Course Description	1	dcasting course is CiHS tl		509		1 Credit	5.5 Weight	Year
	except advan great their o	earned in Video tional quality an iced video techn deal of self moti own original wo video editing skil	d will be iques. I vation, ti rk and co ls.	e able Each s me ma ontinu	to wate tudent anagem te their	th and engag who enrolls nent skills, ar work with P	ge in critical thin in this course s ad creativity. Stud	king based on should have a dents will film
Prerequisites	•	Successful con	npletion o	of Vid	eo 1 & 2	2		
FabLab			6936			.5 Credit	Unweighted	Semester
in a the vin des ma clos	a digita y will o yl cutte igning, nufactu sing the	a globally recog l foundry setting create, invent, ar ers, and associat and digitally ring. This is a g skills-gap. https	g. Stude ad learn. ted softw creating reat count ://fabfou	nts w Stude vares. ; whi rse for	ill find nts wil Stud ile per any st	themselves l be able to u ents will lea forming pro- rudent intere	in creative DIY use 3D printers, I arn the process ocesses and du	spaces where asers, routers, of sketching, ities of light
Prerequisites	• Gr	ades 9, 10, 11, & 1	12					
CAD 1			6961			.5 Credit	Unweighted	Semester
Course Description	The CAD (Computer Aided Drafting) 1 introductory semester-long course is offered to students in grades 9-12. This course teaches students how to use the computer as drafting tool to meet today's demand for computer literate draftsmen and engineers Students will implement industry standard Autodesk applications and create scale 3D models of some of their designs using various materials to simulate a workin architectural model.						computer as a and engineers. l create scaled	
Prerequisites	•	Grades 9, 10, 17 Teacher Recon		ion				

CAD 2		6962		.5 Credit	Unweighted	Semester
Course Description	This course is designed applications in CAD Technologies. Areas construction, orthograp auxiliary view systems, drafting. This will res planning, design, and d certificate of proficiency	(Compute of study whic project pictorial sult in the lrawing. S	ater Aidec will incl tion, advan systems, are developm tudents will	l Drafting) ude but ar ced practices chitectural d ent of skills	and Architecture re not limited to s in dimensioning rawings, and com s for a career in a	ral Design o geometric , sectioning, puter aided architectural
Prerequisites	 Grades 9, 10, 11 75% or better in Teacher Recommendation 	CAD 1	1			

Transportation System	ns 1	6965		.5 Credit	Unweighted	Semester
Course Description	This course will provie of transportation, from will be given a change transportation. Studen propulsion devices to learn about the system	n vehicles t ce to explo nts will be build vehic	hemselves t re, build, a using vario les that will	o the infrast and test veh us hand too be performa	ructure they rely o icles from variou ls, electrical comp ance tested. Stude	n. Students s modes of onents, and nts will also
Prerequisites	• Grades 9, 10, 1	1, & 12				

Robotics 1		6963		.5 Credit	Unweighted	Semester
Course Description	This semester-long co programming of robot many types and opera of robots in manufac throughout the course.	tic systems tional capal cturing. Tea	. Students v bilities of ro	will acquire bots along w	a basic understan vith the programm	ding of the ing and use
Prerequisites	Open to grade	s 9, 10, 11,	& 12			

Robotics 2		6964		.5 Credit	Unweighted	Semester
Course Description	This semester-long of opportunities in the w devices to their robots program their robots guidance.	vorld of rol to enable t	botics. Stu- them to ope	dents will a erate autono:	dd coding and ex mously. Students	ternal input will have to
Prerequisites	Open to gradeCompletion of					

Applied Environmental	Sustainability	6826		1 Credit	Unweighted	Year
Applied Environmental Course Description	Sustainability This year-long project sustainable systems ar guiding principles in systems that could p Global Standards. Sp opportunity to gain h for a better tomorrow, Students will use conte design and create syste the relevant material	-based cound their inter- this course otentially becifically, ands-on ex- safe and a ent and con ems that re	egration inte e are the de resolve real the goal c perience in bundant wa cepts from t inforce the	on the dev o our lives, s esigning, but -world prob of the cours the areas of ater, food sec the Environr concepts pro	elopment of envir chools, and comm ilding, and testing plems while expar se is to afford st f environmental su curity, and renewa nental Sustainabili eviously learned.	ronmentally unities. The of various ading upon cudents the ustainability able energy. ty course to A review of
	will be able to participa			succeed, in	is, any statent in	grades > 12

Chartiers Valley High School Program of Studies - 2023-2024

Prerequisites	• Open to grades 9, 10, 11, & 12						
Aviation Tech	nology (UAV)		6966		.5 Credit	Unweighted	Semester
Course Description	In this course stud including drones, and progressing t navigation, indus procedures, envir option to take the federal issued ID	Student o profess stry law a conmenta FAA 107	s will learn thro ional drones. 7 nd regulations, l factors, and h '-Certified Rem	ough hands-on This course will and safety regr uman factors in ote Drone Pilot	experiences, instruct stud ulations, as v the UAV ind exam. Stud	including flying lents in UAV fligl vell as mission pla lustry. Students ents must have a	mini-drones ht anning will have the
Prerequisites	 Open to g 	grades 9,	10, 11, & 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)	7476	Digital Art & Design	7109	Printmaking
7011	Exploratory Art (12)	7106	Drawing	7110	Sculpture
7103	Animation	7112	Drawing 2	7401	Senior Studio Art
7104	Ceramics	7113	Drawing 3	7445	Honors Studio Art
7116	Ceramics 2	7108	Painting	7455	Honors Digital Art
7117	Ceramics 3	7114	Painting 2	7451	AP 2D Design
7105	Crafts & Mixed Media	7115	Painting 3	7460	AP Studio Art

Exploratory Art (9-11)	7107		.5 Credit	Unweighted	Semester
Course Description	and analyze the complete projects fine art mediums	principles and throughout the s, such as dra tory Art 9th - 1	elements of art, semester. Studer wing, painting, 1th grade will mo	studio art course that which will be used nts will be introduced printmaking, graphic eet the developmental	to effectively to a variety of design, and
Prerequisites	• Grades 9,	10, & 11			

Exploratory Art (12)	7011		.5 Credit	Unweighted	Semester
Course Description	principles and ele semester. Student drawing, painting primarily on real w that would be use historical artists an	ements of art ts will be intr , printmaking, world applications ed in a profession nd styles will a ss. Explorator	in relation to p roduced to a var graphic design a on of artistic prac ional or entreprer lso be explored to by Art 12th grade	idio art course that w projects completed the riety of fine art med nd sculpture. This cou- tices. The student will neurial manner. Cont o enhance student und e will meet the devel rade level.	aroughout the iums such as urse will focus develop skills emporary and derstanding of
Prerequisites	Grade 12	only			

Animation	7103		.5 Credit	Unweighted	Semester
Course Description	creativity through explore the interna the natural flow a stage design. Mult	drawing, stor ational history a and movement tiple traditional aghout the con	rytelling, and oth and evolution of of objects, back and digital anim urse. Students w	which students express ner visual mediums. animation through cha ground development, ation processes will be vill be able to identifies.	Students will aracter design, lighting, and explored and
Prerequisites	Grades 9,Teacher re	10, 11, & 12 ecommendatio	on		

Ceramics	7104		.5 Credit	Unweighted	Semester
Course Description	thrown methods glazing techniques use the slab const clay projects. Stuc bodies, and constr	of construction 5, decoration m ruction, coil bu lents will be a ruction techniq	n. This course wi ethods, and firing uilt, pinch pot, an ble to utilize, ide ues. Additionally,	ting of both hand bu ll include the examin g procedures. Student d hand thrown techni ntify, and name ceran students will become process implementation	nation of clay, s will learn to ques to create nic tools, clay e familiar with
Prerequisites	Grades 9,	, 10, 11, & 12			

Ceramics 2	7116		.5 Credit	Unweighted	Semester
Course Description	construction. This decoration method	s course will i ls and firing pi	nclude the exam ocedures. Studer	t and wheel thrown ination of clay, glazin hts will continue work htechniques learned in	ng techniques, sing with slab
Prerequisites			or better in Cera	mics 1	

Ceramics 3	7117		.5 Credit	Unweighted	Semester	
Course Description	methods of constru techniques, decora	advanced studio class consisting of both hand built and wheel thrown ruction. This course will include the examination of clay, glazing ration methods, and firing procedures. Students will advance their sing slab construction, coil built, and hand thrown techniques to create				
Prerequisites			o or better in Cera	mics 2		

7105		.5 Credit	Unweighted	Semester						
Crafts & Mixed Media is an introductory studio course intended for students who are										
interested in the creative process but not interested in the fine art aspects										
\ 0,1 C										
1	1	1	5	-						
-	. 0	0		0						
1 1 11										
	Crafts & Mixed M interested in the (drawing/painting while creating wo different mediums multiple studio te macramé, decoup crocheting, paper explored, such as t sites like Etsy and	Crafts & Mixed Media is an intro interested in the creative pro (drawing/painting). Students wi while creating works of art. Stud different mediums, such as pain multiple studio techniques. Exa macramé, decoupage, charted crocheting, paper craft, bookbing	Crafts & Mixed Media is an introductory studio co interested in the creative process but not in (drawing/painting). Students will learn about th while creating works of art. Students will get to en different mediums, such as paint, clay, fabric, me multiple studio techniques. Examples of the ski macramé, decoupage, charted designs, baske crocheting, paper craft, bookbinding, and stampi explored, such as the work and entrepreneurial opp sites like Etsy and Pinterest.	Crafts & Mixed Media is an introductory studio course intended for stu interested in the creative process but not interested in the fine (drawing/painting). Students will learn about the art and craft of va while creating works of art. Students will get to experience working wi different mediums, such as paint, clay, fabric, metal, wood, and yarn, multiple studio techniques. Examples of the skills that may be deve macramé, decoupage, charted designs, basketry, weaving, quilt crocheting, paper craft, bookbinding, and stamping. Real-world applic explored, such as the work and entrepreneurial opportunities available of sites like Etsy and Pinterest.						

Chartiers Valley High School Program of Studies - 2023-2024

Digital Art & Design		7476		.5 Credit	Unweighted	Semester
Course Description	this course. reexamined, in order to processes, ar themes and i	Traditional de and reevaluate create uniqu nd mediums v ssues. Themes	sign princip ed along wit ely contem will be explo include dig	bles and art m h non-tradition porary artwo pred in order ital painting, in	es, and processes are aking processes will hal and cutting edge t rk. Twenty-first cent to address a diversity mage manipulation, c tional/digital art hybr	be utilized, echnologies cury artists, y of current ompositing,
Prerequisites	• Grac	les 9, 10, 11, &	& 12			

Drawing		7106		.5 Credit	Unweighted	Semester
Course Description	observationa wide range c pencils, colo drawings a non-traditior	l skills and dra of drawing me red pencils an long with al methodolog	awing techn dia and draw nd pastels to non-represen gy will be i	iques. Projects wing surfaces. o create obser ntational sub	Il focus on the deve will include the expl Students will use pen vational still life and pject matter. Tradit placing emphasis on iques.	oration of a cil, charcoal portraiture tional and
Prerequisites	• Grac	les 9, 10, 11, 8	æ 12			

Drawing 2		7112		.5 Credit	Unweighted	Semester
Course Description	techniques pr of drawing abstraction.	racticed in Dra including but Graphite, colo area of study	wing 1. Emp not limited pred pencils	phasis will be j l to observatic , charcoal, and	develop drawing placed on exploring sponal, portraiture, land d pastels will be used on knowledge from t	pecific types dscape, and d in a more
Prerequisites	• 90%	les 10, 11, & 1 or better in E her recomme	Drawing 1			

Drawing 3		7113		.5 Credit	Unweighted	Semester	
Course Description	A semester-long course that will enab			ble students to develop and hone their skills in			
_	their area of interest in regards to drawing medium, subject matter, and style.						
	Emphasis will be placed on creating a cohesive and coherent body of work and artist						
	statement exp	olaining ration	al for work.		-		
Prerequisites	Grace	les 10, 11, & 1	2				
-	• 90% or better in Drawing 2						
	Teacher recommendation						

Painting		7108		.5 Credit	Unweighted	Semester
Course Description	watercolor p will address Students wil throughout t painting too	ainting, opaqu matters in the ll also explor he painting pu ols, materials,	e acrylic pa areas of stil e the conce rocess. Stude and pain	inting, and oth l-life, portrait, epts of color, ents will be all ting techniqu	explore the transparen her paint media. Spec- landscape, and abstra- light, texture and c ble to utilize, identify les. A major emph position through obse	tific projects act painting. composition 7, and name asis is on
Prerequisites	• Grac	les 9, 10, 11, 8	k 12			

Painting 2		7114		.5 Credit	Unweighted	Semester
Course Description	skills and te specific types color theory.	A semester-long course used to refine and develop acrylic and watercolor paintis skills and techniques practiced in Painting 1. Emphasis will be placed on explorit specific types of genre painting (still-life, portraiture, and landscape), composition, a color theory. Other types of painting mediums will be discussed and explored in course, such as gauche, watercolor pencils, and oil paints.				
Prerequisites	 Grades 10, 11, & 12 Student must receive 90% or better in Painting 1 Teacher Recommendation 					

Painting 3		7115		.5 Credit	Unweighted	Semester
Course Description	their area of will be place	interest in reg	ards to pain a cohesive a	t medium, suł	develop and hone the pject matter, and style ody of work and arti	e. Emphasis
Prerequisites	• Stud	les 10, 11, & 12 ent must recei [.] her Recommer	ve 90% or be	tter in Paintin	g 2	

Printmaking		7109		.5 Credit	Unweighted	Semester
Course Description	opportunity image throug monoprint, a practiced in including th processes an images). His	to learn the y gh the printma and collagraph class. Students e study of to d qualities of	various methaking proces h printmaki s will be imm pols, inks, p f prints (e.g nce and cor	nods of creatin ss. Drypoint e ng are a few nersed in the aper, plate pr overlays, tra ntemporary in	will provide studen ng multiple copies fro tching, linoleum redu of the techniques t distinctive nature of p reparation, registratic ansparency, offset, ar terpretation of the p	om a single action print, hat will be printmaking on, printing ad multiple
Prerequisites	• Grac	les 9, 10, 11, 8	& 12			

Sculpture				.5 Credit	Unweighted	Semester
Course Description	while develo of form usin will gain kno construction.	ping both use g a variety of wledge in ado Historical ar stract forms w	ful and sculp materials su ditive, subtra nd contempo	ptural forms. Such as clay, pla active, and ass prary concepts	explore three-dimensi Students will explore Ister, wood, and meta emblage techniques a s ranging from repro- ty and quality craftsn	the element ls. Students is sources of esentational
Prerequisites	• Grac	les 9, 10, 11, 8	& 12			

Senior Studio Art		7401		1 Credit	Unweighted	Year
Course Description					nd their knowledge of tudio style course.	f previously
Prerequisites	Succe	t be a senior essful comple ner recomme	-	rior art course	es	

AP Studio Art		7460	AP	1 Credit	5.5 Weight	Year
Course Description	experience of printmaking, evaluation	art. Students and mixed r	will create a nedia, whicl f the year.	portfolio of wo h will be sub	ously interested in the orks including drawir mitted to the College course description p	ng, painting, e Board for
Prerequisites		in Art 3 her recomme	ndation			

Advanced Digital Art	& Design	7480		1 Credit	Unweighted	Year	
Course Description	Along with deeper exploration into digital fine art techniques, styles, and processes this course will focus on design principles and elements to advance students' digital vocabulary. Individual style and artistic voice will be examined and developed as students delve into the digital art realm. Students will utilize digital painting, image manipulation, compositing, vector drawing, animation, and image transfer Traditional/digital art hybrids will be explored, and students will develop their own work methods and processes.						
Prerequisites		in Digital Ar	0				
	 Teac 	her recomme	ndation				

Honors Studio Art		7445	Honors	1 Credit	5.0 Weight	Year	
Course Description	This is a preparatory course designed for 11 th grade students who are interested taking AP Studio Art in their senior year. Students will build upon and utilize j drawing and painting skills and techniques in order to begin creating a personal Drawing Portfolio. All course work will foster individualized creative prof solving, wherein students will be responsible for theme ideas and drawing styles. course will lay the groundwork for the AP Studio Art course by giving students a start in creating a portfolio that is reflective of a unique and personal artistic voice.						
Prerequisites	90% in any previous art course and teacher recommendationGrade 11 only						

Honors Digital Art		7455	Honors	1 Credit	5.0 Weight	Year	
Course Description	This is a preparatory course designed for 11th grade students who are interested in taking AP Digital Art in their senior year. Students will build upon and utilize prior digital multimedia concepts and techniques in order to begin creating a personalized design portfolio. All course work will foster individualized creative problem solving wherein students will be responsible for all stylistic and design considerations. This course will lay the groundwork for the AP Digital Art course by giving students a head start in creating a portfolio that is reflective of a unique and personal artistic voice.						
Prerequisites	 90% in Digital Art & Design Grade 11 only Teacher recommendation 						

AP 2D Design		7451	AP	1 Credit	5.5 Weight	Year
Course Description	creating a se interests. Stu increase the techniques. I to digital pho Students will on utilizing	ries of artwor dents will init ir understand There will be e otography, coll then build or	ks directed l ially be gui- ding of de xposure to a age, image n this knowle niques and	by each studer ded through a esign concep a variety of pro- manipulation, edge while creat individual	aims to provide the end of sown individual p a course of teacher-lea ts, principles, and ocesses including but illustration, and digit ating a portfolio of wo student concepts. In escription.	assions and d projects to production not limited tal painting. ork focusing
Prerequisites	• Grades 11 & 12					

(Back to All Course List)



Business



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		Course Name
6010	Introduction to Accounting	6050	Introduction to Business Concepts
6056	Accounting 2	6065	Marketing Dynamics
6051	Foundations of Personal Finance	6080	Sports and Entertainment Marketing
6041	Retail Operations 1	6045	Brewing Success 1
6042	Retail Operations 2		

Introduction to Account	nting	6010		1 Credit	Unweighted	Year
Course Description	desirable for and real esta professional accounting c will be anal accounting financial stat closing entr foundation	many career ite. This first-y and personal ycle for a busin lyzed, classifie systems. The ements, trial b ies will be in of the basics	paths, inclue year course is use. The eness operated ed, and rec fundament alances, wor ntroduced. needed for	ding general r in the account emphasis is o d as a sole pro- orded using b tal principles rksheets, speci Enrollment ir c organizing	ess, a working knowle nanagement, marketi ing program is excelle on understanding th prietorship. Business both manual and co of double-entry be al journals, adjusting this course provid both personal and p	ing, finance, ent for both he complete transactions omputerized pokkeeping, entries, and des a solid professional
Prerequisites	• Grac	les 9, 10, 11, 8	£ 12			

Accounting 2		6056		1 Credit	Unweighted	Year
Course Description	Introduction accounting transactions computerized bookkeeping planning an analyzing co will add to s	to Accounting cycle for a b will be anal d accounting along with su d recording a rporate financi	g. However, pusiness ope yzed, classi systems. T ubsidiary lee account allo ial informati foundation	the emphasis is erated as a c fied, and rec The fundamend dgers and spec wances and a on will be disc of accounting	of the concepts int is on understanding the corporation. Corpora- orded using both n ntal principles of d cial journals, payroll idjustments, and pre- cussed. Enrollment in basics and further ass	ne complete te business nanual and ouble-entry accounting, paring and this course
Prerequisites	Intro	duction to Acc	ounting			

Foundations of Person	al Finance	6051		.5 Credit	Unweighted	Semester		
Course Description	Students will learn fundamental personal finance skills that will prepare them financial independence. Understanding money management, investments, we building, credit and debit, real estate, earning potential, and consumer awareness topics explored throughout this course. Critical thinking skills, such as analy real-world situations, decision-making, problem solving, and goal setting, are developed in Foundations of Personal Finance.							
Prerequisites	• Grades 9, 10, 11, & 12							

Introduction to Business	Concepts	6050		1 Credit	Unweighted	Year			
Course Description									
Prerequisites	• Grac	les 9, 10, 11, &	& 12						

Retail Operations 1			6041		1 Credit	Unweighted	Year				
Course		Students in this class will receive real-world experience through the daily operations and									
Description	0	management of a retail school store (The Horseshoe). The Horseshoe specializes in									
_	1 (g the student and staff	0		0		5				
	commun	ity, school-spirit appa	arel, accesso	ories, an	d novelty	items. Students	will be				
	responsit	ole for learning every a	aspect of op	erating th	nis business,	, including produ	ıct design				
	and dev	elopment, purchasing	g inventory,	, schedu	ling, inven	tory control, m	uarketing,				
	merchane	dising, financial report	ng, advertis	ing, and s	social media	management. Th	is course				
	will requ	ire students to operat	e the school	store out	side of regu	lar school hours.	Students				
	interestee	l in enrolling in this c	lass are requ	lired to c	complete a j	ob application an	ıd will go				
	through a typical interview process.										
Prerequisites	• It	is recommended (not r	equired) that	t students	take the Int	roduction to Busi	iness or				
1	Μ	arketing Dynamics prio	or to enrollin	ig in this c	course.						

Retail Operations 2		6042		1 Credit	Unweighted	Year
Course Description	as real-worl school store staff of th school-spirit learning ev developmer merchandist course will hours. Stud	d experience (The Horsesho e high schoo t apparel, acce ery aspect of at, purchasing ing, financial 1 require stude	through the be). The Hor bl, along w ssories, and operating g inventory, reporting, ad ents to opera d in enrollir	e daily operations reserved a special with the entire novelty items this business this business scheduling, ate the school ag in this class	g and enriched instruc- ions and managemen lizes in providing the re Chartiers Valley . Students will be resp including product inventory control, social media manage s are required to con- process.	t of a retail student and community, ponsible for design and marketing, ement. This gular school
Prerequisites	Succe	essful Complet	tion of Retail	Operations 1		

Brewing Success 1		6045		1 Credit	Unweighted	Year
Course Description	entrepreneur real-world ex coffee shop, aspect of ope students wii inventory, so social media course will hours . Stude	ship, manager sperience thro The Coffee Tre erating this bu l be respons sheduling, inv management, require stude nts interested	nent, marke bugh the da ee Roasters. Isiness. Wor sible for pr ventory con , etc. Studer nts to oper in enrolling	ting, or sales. S ily operations Students will king closely w coduct design trol, marketin nts may take t ate the coffee	plans to pursue a Students in this class and management of be responsible for leas with the Life Skills class and development, g, publicity, financial his course more than shop outside of reg are required to com	will receive the school rning every ss, business purchasing l reporting, once. This ular school
Prerequisites		es 11 & 12	Jugita typica		00035.	

<u>Back to Top</u>

Marketing Dynamics		6065		1 Credit	Unweighted	Year
Course Description	an in-depth l have the opp Also incorpo successfully customer res analyzing th applications. knowledge h issues facing	ook into mark portunity to in- prated are the market a new search. The se he concepts Students will by exploring many differen	eting theorie vestigate the development product, de econd half of learned the be given the more specifient areas of m	es, approaches marketing ap to of the thougevelop new pro- of the year w rough project ne opportunity c concepts, can narketing (incl	of marketing, this cour and functions. Studen proaches used in var ght process and skills coducts, and gather p vill focus on implem ts, simulations, and v to expand their acc areer opportunities, a luding sports and ent This course is open t	nts will also ious media. s needed to product and nenting and l hands-on juired basic and current rertainment,
Prerequisites	• Grac	les 9, 10, 11, 8	& 12			

Sports and Entertainment Marketing		6080		.5 Credit	Unweighted	Semester
Course Description	students and sports and knowledge a marketing. public relation	opportunity to entertainment und skills rela Students will ons/ publicity,	gain knowl industry. I ted to the develop ski event marke	edge and deve In this course industry of s Ils in the area eting, sponsori	ecialized course desig elop skills related to t e, students acquire ports, entertainment, s of merchandising, ng, ticket distribution ment industry.	the growing transferable and event advertising,
Prerequisites	Intro	to Business (re	ecommende	d)		

(Back to All Course List)



Career & Community Learning Opportunities



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

Peer Learning Assistant		6092		.5 Credit	Unweighted	Year
Course Description	apply the school. S library p Designat opportur spots ava	eir leadershi Specifically, peer mana ed students hity include ailable based	p and acade students ca ger, and/or will help ot s a competi d on set crite	emic skills that can n apply to become academic tuto her students and tive application a	nts the opportunity to n be transferred to life me a technology sup r during available assist instructors in th and interview process availability. For mor ngassistant	e beyond high port assistant, class periods. ese areas. This s with limited
Prerequisites		rades 11 & 1				
	• R	ecommenda	ation from ap	oplication commit	tee	

Work Experience	1-3 Credits	Unweighted	Year			
Course Description	integrating offers seni postseconce monitoring reflections,	the opportun ors scheduling lary experience g of work he	ity of e g flexibi ces. E ours an	mployment durin lity similar to w valuations will d schedules, con	valuable learning on ng the senior year. We hat they will encoun include visits to the mpletion of student uent communication	ork experience ter with most ne workplace, journals and
Prerequisites	• En • Co	ade 12 only rolled in 5 class ounselor recomm udent training a	mendati	on		

(Back to All Course List)



Computer Science



(Back to All Course List)

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

Students with an interest in graphics, animation and game development may consider Introduction to Computer Graphics and Animation and Introduction to Computer Programming. ***Computer Science courses, with the exception of Cybercrime & Digital Forensics may count as a math or science credit.*

ID		rse Name	ne o Digit	ID	sics may count as a math or science credit. Course Name				
6062	AP Computer Scien			6021	Cvbe	Cybercrime & Digital Forensics			
2635	AP Computer Scien			2612	Introduction to Computer Programming			g	
2653	CiHS C++			2618		duction to Art	ificial Intelligence &		
AP C	omputer Science	Principles	6062	A	P 1 Credit 5.5 Weight Year				
Cours	e Description	of computer inviting stud course prome in the creativ This course encouraged to to think crea Rather than to using techno create excitin innovative s	science, ins lents to und otes deep le e aspects of is unique in to apply cre atively while teaching a per logy and per solutions us entists, and	tilling the derstand arning o the field. In its focu- ative pro- e using articular ogramm sonally m sing an	e idea how f comp is in fo progra ing as relevar iterati	s and practice computing ch putational thin ostering stude when develo ations to explo ations to explo amming langu a means to so at artifacts. So ve process s	duce students to the es of computational tanges the world. Tanges the world and engages the creative students to be creative. Sping computational approximation of the cours and the cours are or tool, the cours are or tool, the cours are to be computational postudents design and imilar to what artist to life. <i>This course ma</i>	hinking and his rigorous ges students Students are artifacts and terest them. se focuses on roblems and l implement sts, writers,	
Prerec	quisites	Succe	essful comp	letion of	Geome	etry OR Teache	er Recommendation		
AP C	omputer Science	A	2635	A	P	1 Credit	5.5 Weight	Year	
Cours	e Description	a career in c Placement (A Students are	computer sc AP) curricul expected to orough kno	ience, b lum will particip wledge	usiness be fo ate in of Java	s, or any scier ollowed and i the AP exam,	otivated student who nce-related fields. Th ncludes an in-depth which occurs in May ramming techniques	e Advanced case study. y. This exam	
Prerec	quisites	Intro	duction to C	Compute		camming			
Cybe	rcrime & Digital		her recomme 6021	endation		.5 Credit	Unweighted	Semester	
-	e Description	The cybercrit conducted at examine the	me & digita nd how ne history and	w crimin d nature Students	nal op of co	urse explores portunities ha mputer-related	how existing crimin ave been created. S d crime and how so ifferent types of cyl	al activity is tudents will ocieties have	
		including m	issues in cy legislation, vigilante	berspace user-re moven	, inclu portin	thods of atta ding surveilla g initiatives	ck. Students will a nce, sting operations,	lso evaluate , current and ng/blocking	

Introduction to Compu Programming	ıter	2612		1 Credit	Unweighted	Year	
Course Description	This course will use a curriculum written in partnership with professors and stude at Carnegie Mellon University. In this course, Chartiers Valley students will have opportunity to work with faculty and/or students from Carnegie Mellon Univers Students will get a general introduction to programming techniques by study errors, graphics, functions, events, loops, and strings. Students will begin learn python, and then the second semester will focus on broader topics and languages.						
Prerequisites	Enro	lled in or comp	oleted Algeb	ra 1			

CiHS C++		CiHS	1 Credit	5.5 Weight	Year
College in the High School C++ is affiliated with Duquesne University, and coll credit may be earned (purchased) for successful completion of this course. C++ is advanced programming language that introduces the concepts of objects. This hig structured language enables the student to write code that is organized, precise, clear. A prior programming language will be very useful in understanding the rout presented in the course. Often, C++ is the first course a freshman engineering/sciel major will encounter.					
Introduction to Computer Programming Togelear recommendation					
	credit may b advanced pro structured la clear. A prior presented in major will en • Intro	credit may be earned (pur advanced programming la structured language enable clear. A prior programming presented in the course. Of major will encounter. • Introduction to Cor	College in the High School C++ is aff credit may be earned (purchased) for advanced programming language that structured language enables the studer clear. A prior programming language w presented in the course. Often, C++ is major will encounter.	College in the High School C++ is affiliated with D credit may be earned (purchased) for successful com advanced programming language that introduces the structured language enables the student to write coo clear. A prior programming language will be very use presented in the course. Often, C++ is the first course major will encounter. • Introduction to Computer Programming	College in the High School C++ is affiliated with Duquesne University, credit may be earned (purchased) for successful completion of this course advanced programming language that introduces the concepts of objects. structured language enables the student to write code that is organized, presented in the course. Often, C++ is the first course a freshman engineer major will encounter. Introduction to Computer Programming

Introduction to Artificial Intelligence & Machine Learning		2618		.5 Credit	Unweighted	Semester
Course Description	The aim of this course is to demystify the topic of Artificial Intelligence (AI) we students gaining an understanding of AI terminology such as machine learning deep learning. Students will gain knowledge and skills while considering the some moral, and ethical impacts of AI systems and usage. Students will explore practical daily applications of AI that are likely to have an impact on their lives. Throughout course, students will be encouraged to come up with their own designs for areas s as smart cities, homes, and schools. Students also learn to build and fly a drone.					
Prerequisites	Grades	9, 10, 11, &	12		2	

(Back to All Course List)



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 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	1324	Language and Composition
1131	English 9 Advanced/ Composition 1	1231	English 10 Advanced/ Composition 2	1325	Advanced Language & Composition/11
1132	Honors English 9/Composition 1	1232	Honors English 10/ Composition 2	1350	AP Language & Composition
		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	1503	SAT Prep
1426	Advanced World Literature 12: Voices in World Literature & College Writing	1509	Yearbook Production & Media Writing	1507	Creative Writing
1350	AP Language & Composition	1502	CiHS Communications/ Rhetoric	1504	CiHS Introduction to Film
1355	AP Literature & Composition			1510	Intro to Screenplay Writing
1360	AP Seminar				
1365	AP Research				

English 9/Composition	າ1	1111		1 Credit	Unweighted	Year
Course Description	This course is an introduction to high school level composition an curriculum. Each student will further develop those skills needed for the ris school level writing and critical thinking in response to fiction and non- Instruction will be geared to students' ability, such that they can develop necessary to succeed at this level.					
Prerequisites	sites • 8 th grade performa • Teacher recommer					

English 9/Advanced Con	nposition 1	1131		1 Credit	Unweighted	Year	
Course Description	This course is an introduction to high school level advanced composition and literature curriculum. Each student will further develop the skills necessary in accordance with PDE requirements, as well as those skills needed for the rigors of high school level writing and critical thinking in response to fiction and non-fiction texts. Students will examine the content of literature as well as the writer's style and structure of each assigned piece. Emphasis will be placed on formal, analytical essays and the synthesis of various sources into one cohesive written assignment.						
Prerequisites		ade performat					

position 1	1132	Honors	1 Credit	5.0	Year
literature of literature as will be place one cohesive	Advanced Pl well as the wr d on formal, a written assig	lacement str riter's style a analytical es nment. Stud	udies. Studen and structure of says and the ents will study	ts will examine the of each assigned piece synthesis of various s y fiction, non-fiction,	content of e. Emphasis sources into
 85% or higher in 8th Grade Literature and English Teacher recommendation 					
	literature of literature as will be place one cohesive poetry from v • 85%	This course is designed literature of Advanced P literature as well as the wi will be placed on formal, one cohesive written assig poetry from various time po • 85% or higher in 8 th	This course is designed to prepare literature of Advanced Placement str literature as well as the writer's style a will be placed on formal, analytical es one cohesive written assignment. Stud poetry from various time periods and co	This course is designed to prepare students for literature of Advanced Placement studies. Student literature as well as the writer's style and structure of will be placed on formal, analytical essays and the one cohesive written assignment. Students will study poetry from various time periods and countries of orig • 85% or higher in 8 th Grade Literature and Eng.	 This course is designed to prepare students for the rigorous learning literature of Advanced Placement studies. Students will examine the literature as well as the writer's style and structure of each assigned piece will be placed on formal, analytical essays and the synthesis of various s one cohesive written assignment. Students will study fiction, non-fiction, poetry from various time periods and countries of origin. 85% or higher in 8th Grade Literature and English

English 10/Compositio	on 2	1211		1 Credit	Unweighted	Year	
Course Description	curriculum c study them a	of the high sch analytically. D writing, critica	a course is a continuation of the composition and literature chool. Students will read examples of all genres and begin to During this study, they will be encouraged to develop high ical thinking and rhetorical methods in response to fiction and				
Prerequisites		rade performa ner recommeno					

English 10 Advanced/Co	mposition 2	1231		1 Credit	Unweighted	Year	
Course Description	This course is a continuation of the high school level advanced composition and literature curriculum. Students will explore the advanced elements of analytical writing as well as grammar and usage. Each student will further those skills needed for the rigors of high school level writing, critical thinking and rhetorical methods in						
	response to fic						
Prerequisites	• 9th gra	ade performa	nce data				
_	 Teache 	er recommend	lation				

Honors English 10/Cor	nposition 2	1232	Honors	1 Credit	5.0 Weight	Year	
Course Description	This course will continue the sequential development of language arts skills from th Honors English 9 curriculum and is designed to prepare students for AP courses. A in-depth analysis of literary elements will be emphasized with a focus on traditional a well more modern selections of fiction and non-fiction. Students will learn mor advanced methods of poetry analysis and be introduced to rhetorical methods an elements.						
Prerequisites	 80% in Honors English 9 or 90% in Advanced English 9 Teacher recommendation 						

Language and Compos	Language and Composition			1 Credit	Unweighted	Year	
Course Description	The emphasis of this course is placed on the reading, writing, and research element of						
_	the Pennsylvani	ia Core Star	ndards. Th	e course foll	ows a thematic elen	nent of the	
	"Coming of Age"	", which stud	lents often	experience du	ring this period of the	eir life. Each	
	unit will focus, reflect, and revolve around these unique themes associated with the						
	coming of age in reference to direction in life, the responsibilities of a young adult,						
	discovering one	self, etc. Lit	erature w	rill include n	ovels, short stories	and poetry	
	selections from	American li	iterature	Critical analy	sis essays, practical	and career	
	writing and pro	jects, objectiv	ve tests, a	nd project bas	ed learning assignme	ents will be	
	utilized to eval	uate student	t understa	nding as it c	correlates to the Cor	nmon Core	
	Standards.						
Prerequisites	• 10th grad	de performar	ice data				
-	Teacher	recommenda	tion				

Advanced Language & C	Composition/11	1325		1 Credit	Unweighted	Year	
Course Description	The goal of this and respond in w will develop clo understand a wr construct origina analysis, argume persuasively with AP Language an	writing that ose readir riter's argument argument entation a n evidence ad Compo	at conveys d ng and criti ument and p ntation throu nd synthesi and meanin sition, the s	lepth of under ical thinking methods of pe ugh the analys is. In addition ngful commen skills mastered	nplex fiction and non rstanding and meanin skills in order to ic ersuasion. Students v is of the techniques on n, students will lean tary. Based on the cur in this course provis	ng. Students dentify and vill learn to of rhetorical rn to write rriculum for	
Prerequisites	 with an analytical base, which can be applied to all subject areas. 10th grade performance data 						
- Toroquiotoo	0	ecomment					

World Literature 12/ Con	nposition 4	1422		1 Credit	Unweighted	Year
Course Description	postsecondar with gramm comprehensi required by post-secondar and practicar think criticar	ry world. Ana nar, vocabula on and the a the Pennsylva rry communica l writing assig	alysis of fict rry, and w bility to con nia core sta ation skills th gnments. Th ependently a	tion and non- riting skills, nmunicate in ndards. In ado hrough project ese assessmen as well as in	ry skills that are need fiction selections, in will further develor both written and or dition, students are p coriented assessments the reflect the student a group, and compu- sources.	conjunction op student al forms as prepared for s and career 's ability to
Prerequisites		grade performa her recomment				

Advanced World Liter Voices in World Literature & College Writing		1426		1 Credit	Unweighted	Year
Course Description	College Wri teachers to ta Voices in Wo human histo significance ancient myth designed as Beatles' lyric world in an and writing. College Writ Centered arc	ting) but will ake the opposition orld Literature ry and from all and meaning nology to mode an inquisitive j s. Students will effort to prepa- ing is designe ound the theme vriting process	be schedul te half of th will explore l across the g uncovered f ern storytell: ourney that l be exposed are for life al d to help st e of identity,	ed as a yearle e course at the timeless story globe. Studies from multiple ing in various will include pi to stories, beli head by develo udents hone w students will r	(Voices in World Lit ong class. Students e end of the first seme vilines of literature from will include an explor cultures and time per forms and genres. T ieces ranging from Be- iefs and ideas from all oping skills in analytic vriting skills essential read and respond to ver- evisions, and ultimat	will switch ester. m all across ration of the eriods, from he course is owulf to the around the ical thought for college. arious texts,
Prerequisites	• 11 th (Grade Teacher	Recommend	ation		

AP Seminar		1360	AP	1 Credit	5.5 Weight	Year
Course Description	AP Seminar is an elective course for 10 th , 11 th or 12 th grade students taken on its own or as part of the AP Capstone TM 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 administratic calculate a fin <i>Board,</i> May 20 In order to b	of April an on window. A nal AP score (* 016) pe successful i:	d a 2-hour Il three ass using the 1 t n this course	end-of-cours essments are to 5 scale) for <i>A</i> e, students mu	gh-course performance e exam during the summative and will AP Seminar. (AP Sem ust be able to manag during class time.	AP Exam be used to inar , College
	AP Seminar is a prerequisite for AP Research. Sophomores and Juniors may elect to take AP Research the following year as part of the AP Capstone [™] Program requirements.					
Prerequisites	InstructStudent	or approval re must have de	quired. monstrated a		urse or 90% in Advan ethic and the ability to 5.	-

AP Research		1365	AP	1 Credit	5.5 Weight	Year
Course Description	deeply explo Students des question. The course by le accessing, an development through a pr of 4,000-5,000	ore an acader ign, plan, and ough this inquarning research alyzing, and document the ocess and refle 0 words (acc	nic topic, p implement uiry, they fur th methodol synthesizing eir processes ection portfol ompanied b	roblem, issue, a yearlong in rther the skills ogy, employin g information , and curate th io. The course by a performa	e experience, allows or idea of individu- vestigation to addres they acquired in the g ethical research pr . Students reflect or the artifacts of their sch culminates in an acac ance, exhibit, or pro AP Research, <i>College B</i>	al interest. s a research AP Seminar actices, and their skill olarly work demic paper duct where
Prerequisites	 AP Sem required be succe Student eligible Student end of t withdra 	inar is a prerec l assessment co essful in AP Re s must score a to take AP Res s need to sign he first nine w w from the co h is meeting th	quisite for Al omponents i esearch. (AP 3 or higher o search. an enrollmer eeks the stud urse and will	P Research. Co s necessary for Research, <i>Colle</i> on the AP Sem nt contract at the lent is not prog l be enrolled ir	ompleting AP Seminar students to develop ge Board, 2017) inar End of Course Es he beginning of the ye gressing, the student to a another English clas ement for the year or a	r and all its 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 the current <i>AP Language and Composition Course and Exam Description,</i> 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 rhetoric. Each unit requires students to acquire and use rich vocabulary, use proper grammar, and understand the importance of diction and syntax in an author's style. The literature will include various nonfiction selections. The 2019 rubric changes have also been implemented as well as multiple choice adjustments to the exam per AP classroom. Students are expected to take the Advanced Placement exam given in May.						
Prerequisites	English	lonors English recommendatio		n AP English c	course or 90% in Adva	nced	

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 skills needed for college bound 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 critical and expository, stresses frequent writing and careful revision, training the student to think and organize clearly and to be direct,					
					whole class and s	
	discussions is essential. Students are expected to take the Advanced Placement exam given in May.					
Prerequisites	 80% in Honors English, 75% in an AP English course or 90% in Advanced English Teacher Recommendation 					
	• reaction	Recommenda	uon			

CiHS Communication	s/Rhetoric	1502	CiHS	1 Credit	5.5 Weight	Year
Course Description	communicati of themes or argumentatic through class expression of discussions is charged door project challe The class is credits from University of	ve argumentative related issues on and debate. ssroom debate of argument, n and out of the umentaries and enges are an inter- a College in F The University	tion and deb in order to The develop es and for and develo he classroom d other form tegral part of High School y of Pittsbur here is a fee	ating technique better undersoment of argum rms of argum opment of crue setting, analy as of expression the course. course, and the gh. Since this involved for s	amination of variou ues. Each unit will fol atand and apply varion nent techniques will be ment, visual/audible itical thinking skills rsis and argumentation on, as well as real life mere is an option to r course is articulated tudents who want to ge credits.	low a series bus forms of e examined e/published . In depth n of socially e situational ecceive three through the
Prerequisites		 75% in English English teacher recommendation 				

Journalism/Yearbook	-	1532		1 Credit	Unweighted	Year
Course Description	<i>Nexus.</i> Stude to create the copy and ca managing a part of the outside of th will also emp year, as a his public relation Production th	nts will gain a book. Studen aptions, editir ousiness. As y curriculum. A e school day to phasize an uno tory or perma ons tool. 10th he following ye	n understand ts will also i g photos, i earbook pro- ditionally, take photog derstanding nent record and 11th g	ling of how to learn skills ind nterviewing t duction is a bu students mus graphs and rep of the concept of one school	the Chartiers Valle use desktop publishin cluding creating layor echniques, taking pi usiness, fundraising is st be available to attr port on school events. s of a yearbook as a si year, as a reference bo are expected to tak	ng software uts, writing ctures, and s a required tend events This course story of one ok, and as a
Prerequisites	 Grades 10 & 11 80% in English Teacher recommendation 					

Yearbook Production & Media Writing		1509		1 Credit	Unweighted	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 after school meetings is required.						
Prerequisites	80% in Journalism/Yearbook						
*	Teacher recommendation						

Creative Writing		1507		.5	Unweighted	Semester
Course Description	relation to th techniques so Students will edit, and mail	eir writing ski uch as poetry, l participate in ke constructive levelopment a	lls. Student short storie the writing e suggestion	s will learn va s, flash fictior workshop pro s to the writte	xperiment with creative prious creative writing n, lyrics, and screenpl press where they will p on work. Students wi possibly have the opp	g styles and lay writing. peer review, ll also focus
Prerequisites	 None 	5				

SAT Prep		1503		.5	Unweighted	Semester
Course Description	This semeste	r-long SAT Pre	ep course is	specific to <u>coll</u>	lege bound students	who plan to
-	take the SAT	in the next fer	w months or	<u>r have taken tl</u>	ne SAT and plan to re	t <u>ake it</u> . This
	course is not	relevant for s	eniors in the	e spring semes	ster of their senior ye	ar. Utilizing
	the College	Board mode	l, this Evid	lence-Based F	Reading and Writing	g course is
	organized are	ound key skill	s and concep	pts tested on tl	he Reading Test and V	Writing and
	Language Te	est ONLY. Pra	ctice on Off	icial SAT Prac	tice is organized arou	und passage
	content and	writing type, s	o even thou	gh a class less	on will focus on one	or two skills
	at a time, du	iring independ	lent practice	e students will	l be able to apply m	ultiple skills
	across multip	ole passages in	a way that	is authentic to	how we read and w	rite in daily
	life. The four	essay lessons	begin with	examining and	d unpacking the prom	npt and lead
	into writing	a full respons	e. Enrollme	ent is limited t	to 18 students per se	mester, and
	students must have a working laptop daily to properly utilize the online platform.					
Prerequisites	• Students must have completed Honors 9 or 10 English coursework with a C+					
					11 English coursewor	'k with a C+
	or hi	gher or advanc	ced 11 Englis	h with a B or h	nigher.	

CiHS Introduction to I	Film	1504	CiHS	.5	5.5 Weight	Semester	
Course Description	Film1504CiHS.55.5 WeightSemesterIntroduction to Film is a basic course on the visual arts that teaches students how to appreciate, analyze, and interpret theme, character, story structure and narrative technique through the medium of film, including cinema, television, and social media as well as other arts, including photography, painting, and theater. Students will read screenplays, analyze shots, research film history, study and critique directors, retool and rework existing scripts, compose story treatments, pitch ideas in a group setting, revise and improve dialogue, compose action sequences, draft their own screenplays, learn filmmaking techniques, and film their own original works.Semester						
Prerequisites	 Grad 	es 11 & 12 only	У				

Intro to Screenwriting		1510		1.0	Unweighted	Year
Course Description	screenplay w modern worl for content to	vriting. Units d is a world f	will range f illed with di eens. Additi	rom format s gital screens, a	mentals of film and tructure to story bui and there is an ever p ss will give students	lding. The resent need
Prerequisites	None	2				

(Back to All Course List)



Family & Consumer Science



The Chartiers Valley High School Family and Consumer Sciences curriculum is designed to 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	8520	Introduction to Interior Design
8512	Ethnic and Regional Cuisine and Nutrition 2	8513	Culinary Arts & Food Science
8501	Child Development and Family Relations	8516	Partners in the Kitchen

Introduction to the Wo	orld of	8511		1 Credit	Unweighted	Year
Food and Nutrition 1						
Course Description	and their ap course defin ensure good work skills success in th preparations	plications to f es the need f health in the f including com neir future ca are incorpora ad health res	food choices or students uture. While munication, reers. Kitcho ted in the p	s, nutritional a to understand working in ter organization, en manageme weekly foods	s in basic principles malysis, and consum I their role in health ams, students will gai and technical readin nt, recipe skills, and labs while students amily, career, and	erism. The ay eating to an necessary g to ensure basic food learn about
Prerequisites	Grades 9, 10, 11, & 12					

Ethnic and Regional C	uisine and Nutrition 2	8512		1 Credit	Unweighted	Year
Course Description	This course incorporates the Nutrition 1 and allows the projects to explore selected techniques, consumer chal various regional and ethnic family dietary needs. Stud principles while working in future employers.	student ethnic fe lenges ar foods in ents will	to delve i oods in re nd career n weekly l also prac	nto more sp lation to cus opportunitio abs, as well ttice proper	ecialized and ind toms and food pres. Students wil as identify indivi- food safety and s	ependent eparation l prepare idual and sanitation
Prerequisites	• 75% in Intro to Worl	d of Foo	ds			

Child Development ar	nd Family Relations	8501		1 Credit	Unweighted	Year
Course Description	This course offers an in- development. Emphasis moral, social, and em developmental stages fr experiences including th experience with childre children's learning center such as blood drives and	is placed notional, rom birth ne use of n throug r program	l on the as the to eau Real h limit	e child's tota e child pro cly childhoo Care Baby t red direct p ents are also	l development, physion occeeds through the od. This course offer Simulators, as well oarticipation in the l	cal, mental, sequential s hands-on as practical high school
Prerequisites	• None					

Culinary Arts & Food	Science	8513		1 Credit	Unweighted	Year	
Course Description	with an emp skills in food						
Prerequisites	• Stud Ethn				tion to Food and Nut % or better or by teach		

Introduction to Interior Design		8520		.5 Credit	Unweighted	Semester
Course Description	This course is designed to teach students the elements of design. Students will creat an impact using color, fabrics, and textures. Instruction will focus on the history interior design, furniture styles, and design theory through projects and presentation					
Prerequisites	None	е				

Partners in the Kitcher	n	8516		.5 Credit	Unweighted	Semester
Course Description	with student Kitchen (Coc special needs demonstrate basic kitcher kitchen. Act safety, dem	s with special : oking Partners s and their gen skills one-on-on skills. The ivities include	needs as wel) course is a neral educat one to motiv lessons are e but are ne oper meas	Il as working in an inclusive ap ion peers. The ate special nee designed to ot limited to uring technic	areer path that involven on the kitchen. The Par opproach that pairs stree general education st eds students to fully p teach everyday life so handwashing praction pues, table setting,	rtners in the udents with tudents will articipate in skills in the ces, kitchen
Prerequisites	None	2				



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	Unweighted	Year
Course Description	arithmetic al in Algebra I learning stra one-step equ fractions, ex functions and	gorithms. The and II and he itegies. Studer ations and ine ponents, oper d graphing, sp	course empletes students ats will exp equalities, ar rations with atial thinkin	hasizes the con s develop goo lore algebraic nd work with fractions, rat g, area and vo	algebra concepts and ncepts necessary to be d mathematical study expressions and inte decimals and equations, per olume, right triangles and polynomials.	e successful y skills and egers, solve ons, factors, cent, linear
Prerequisites	None					

Algebra 1		2122		1 Credit	Unweighted	Year
Course Description	Students will formalize and expand on algebraic concepts established in prev coursework. Students will deepen and extend their understanding of linear exponential relationships by contrasting them with each other and by applying lin models to data that exhibit a linear trend. They will engage in methods for analyse and using functions. Students will fluently move between multiple representation functions, including but not limited to linear, exponential, and quadratics.					
Prerequisites	Successful completion of Algebra Essentials					
	Teacl	ner recommend	dation			

Cognitive Algebra 1		2123		1 Credit	Unweighted	Year
Course Description	PA State Alg Operations a Organization and Express Geometry an	ebra 1 Keysto nd Linear Ec s focusing on sions, Linear d Data Analys	one Exam. quations & the followin Equations, is. All stude	The course w Inequalities an og six anchors: Linear Ineq	ora 1 skills in prepara vill explore the two n nd (2) Linear Function Operations with Re- ualities, Functions, scored basic or below this course.	nodules: (1) ons & Data al Numbers Coordinate
Prerequisites	Alge	bra 1				

Cognitive Algebra 2		2132		1 Credit	Unweighted	Year
Course Description	equations. S scenarios. S functions and	tudents will st Students will d do some wo	udy quadra be introduce rk in the fiele	tic functions a ed to polynor d of descriptive	linear functions and nd use these to mode nial, rational, and tri e statistics. The cours ill have a broader app	l real-world igonometric e will move
Prerequisites	 Below 70% in Algebra 1 Below 85% in Cognitive Algebra 1 Teacher recommendation 					

Algebra 2		2132		1 Credit	Unweighted	Year
Course Description	Students extend their repertoire of functions to include polynomial, trigonometric, and radical functions. Working closely with families of fu students will apply their understanding of transformations. Students will situations and solve equations including quadratics over the set of complex and exponential equations using the properties of logarithms. Students descriptive statistics and probability as a tool for making inferences about data					
Prerequisites	• 8	30% in Algebra 35% in Cogniti Feacher recom	ve Algebra 1	_		

Honors Algebra 2		2143	Honors	1 Credit	5.0 Weight	Year
Course Description	trigonometric students will and solve e exponential e statistics and	c, and radical apply their un quations inclue equations usin probability a ated coverage,	f functions. nderstanding iding quadi g the proper s a tool for i	Working close g of transformatics over the ties of logarithe making inferent	include polynomia sely with families of ations. They will mode e set of complex nu ums. Students will use nees about data. Some vered in greater dept	f functions, el situations umbers and descriptive e topics will
Prerequisites		in Algebra 1 ner recommeno	dation			

Cognitive Geometry		2111		1 Credit	Unweighted	Year
Course Description	algebraic ex congruence. including: fo right triangle	periences. St Students expl rmal mathem trigonometry	udents will lore more c atical argun , circles, and	continue th omplex geom- nents, transfor l probability. T	d extend students' ge- eir work with sim etric concepts and re- mations, the coordin 'his course will move oader approach.	ilarity and lationships, ate system,
Prerequisites		v 75% in Algel				
	Teacl	ner recommen	dation			

Combined Geometry		2212		1 Credit	Unweighted	Year
Course Description	algebraic ex congruence. including for	periences. St Students expl	udents will lore more c atical argun	continue th omplex geome nents, transfor	d extend students' ged eir work with sim etric concepts and re mations, the coordin	ilarity and lationships,
Prerequisites		in Algebra 1 ner recommene	dation			

Honors Combined Geometry		2244	Honors	1 Credit	5.0 Weight	Year
Course Description	algebraic ex congruence. including for right triangle	periences. St Students expl rmal mathema trigonometry	udents will lore more co atical argum circles, and	continue th omplex geome ents, transfor l probability. S	d extend students' get eir work with sim etric concepts and re mations, the coordin fome topics will have ths than the Combined	ilarity and elationships, ate system, accelerated
Prerequisites	 93% in Algebra 1 Teacher recommendation 					

Algebra 3		2145		1 Credit Unweighted Ye					
Course Description	use them to about linear and complex	solve problem and quadration numbers. Str	ns that we e c functions, udents will	encounter in e systems of ec	braic principles and le veryday life. Student quations, polynomials uced to basic trigono ld scenarios.	s will learn 5, graphing,			
Prerequisites		essful complet ner recommen	0	tive Algebra 2					

Trigonometry/Analysis		2313		1 Credit	Unweighted	Year
Course Description	and logarith	mic functions,	finite and in	nfinite sequen	oosition of functions, o ces and series, circula ication of the Laws c	r functions,
Prerequisites		or better in Alg ner recommend	<i>,</i>			

Honors Pre-Calculus		2403	Honors	1 Credit	5.0 Weight	Year
Course Description	further their covered inclu and logarith analytical Ge logical thinki	studies in mat ide a review o mic functions; ometry; seque	thematics to of basic algeb trigonomet ences and an nation throu	include calcul raic concepts; ric functions a introduction t gh the experie	signed for students g us, notably, AP Calcu polynomial, rational, and identities; polar o calculus. Students v nce of mathematical p culus.	ilus. Topics exponential coordinates; will develop
Prerequisites	• 95%	in Honors Alg in Algebra 2 ner recommeno				

CiHS Calculus		2313	CiHS	1 Credit	5.5 Weight	Year
Course Description	related fields emphasis or	. It contains a problem sol	thorough re ving rather	view of algebraic than theory.	to major in business, ra 2 and differential ca This course may be er and counselor appro	alculus with e scheduled
Prerequisites		essful completi ner recommend		ra 2		

AP Calculus AB		2423	AP	1 Credit	5.5 Weight	Year					
Course Description Prerequisites	concept of ca course repres and problem The connection and widely a memorization types. Techn relationships to implement involving Alas for students to of the course, 90% i	Iculus and pro- sents a multi-p s being expre- ons between the pplicable methen of an extense alogy is used among the mu- t experimenta gebra 2 problecto to complete over	oviding exp presentation ssed geome nese represen nods are em sive taxonor d regularly ultiple repre tion, and to ms and som ver the sumr <u>expected</u> to ta ebra 2 Calculus	erience with it al approach to trically, numer ntations are also phasized. The phasized. The sentations of fu- assist in inte e basic Trigono ner prior to tal	students' understar s methods and appli calculus with conce- ically, analytically, a o very important. Bro focus is neither mani- is, curves, theorems, and teachers to re- unctions to confirm w rpreting results. An ometry concepts will king this course. As a ced Placement Exam	cations. The epts, results, nd verbally. oad concepts pulation nor or problem einforce the vritten work, assignment be required a component					
AP Calculus BC		2430	AP	1 Credit	5.5 Weight	Year					
Course Description	limits, deriva functions, an and concepts and verbally.	Calculus BC is presented as a cohesive whole through the use of the unifying themes of limits, derivatives, integrals, polynomial approximations, series, parametric and polar functions, and vectors. The course features a multi-representative approach to calculus and concepts, results, and problems expressed graphically, numerically, analytically,									
Prerequisites	• 93%	in Honors Trig			• 93% in Honors Trig						
AP Statistics		2515	AP	1 Credit	5.5 Weight	Year					
AP Statistics Course Description	data produce technology w the Advance course also h An assignme complete ove Displaying	l explore met ed by others a vill be emphas ed Placement 1 ave the option ent involving er the summer Distributions,	hods of coll and themse ized throug Exam in Ma to purchase basic statist r. Course un Normal	ecting, organiz ves. Solving e nout the course y of the schoo college credits ical concepts its will include Distributions,	zing, and interpreting everyday problems a e. The student is <u>exp</u> of year. Students enro through Duquesne t will be required for e: Measures of Centr Correlation and	g (inferring) ind utilizing <u>ected</u> to take olled in this Jniversity. students to al Tendency,					
	data produce technology w the Advance course also h An assignme complete ove Displaying Probability, T	l explore met ed by others a vill be emphas ed Placement 1 ave the option ent involving er the summer Distributions,	hods of coll and themse ized throug Exam in Ma to purchase basic statist r. Course un Normal cance, and A	ecting, organiz ves. Solving e nout the course y of the schoo college credits ical concepts its will include Distributions, nalysis of Varia	zing, and interpreting everyday problems a e. The student is <u>exp</u> of year. Students enro through Duquesne t will be required for e: Measures of Centr Correlation and	g (inferring) ind utilizing <u>ected</u> to take olled in this Jniversity. students to al Tendency,					
Course Description Prerequisites	data produce technology w the Advance course also h An assignme complete ove Displaying Probability, T • Succe	l explore met ed by others a vill be emphas ed Placement l ave the option ent involving er the summer Distributions, ests of Signific essful complet	hods of coll and themse ized throug Exam in Ma to purchase basic statist r. Course un Normal cance, and A	ecting, organiz ves. Solving e nout the course y of the schoo college credits ical concepts its will include Distributions, nalysis of Varia ra 2	cing, and interpreting everyday problems a e. The student is <u>exp</u> ol year. Students enro- through Duquesne U will be required for e: Measures of Centr Correlation and unce.	g (inferring) ind utilizing <u>ected</u> to take olled in this Jniversity. students to al Tendency, Regression,					
Course Description	data produce technology w the Advance course also h An assignme complete ove Displaying Probability, T • Succe in Sports This yearlon with a math previous cou statistics tha Students will and drive ch course will r to present th presentations either sports connect the t	l explore met ed by others a vill be emphas ed Placement 1 ave the option ent involving er the summer Distributions, essful complet 2516 g course that for rses have. On t different spe l learn to track narts, as well equire the stud- neir understan s and debates or mathematic two and expos	hods of coll and themsel ized throug Exam in Ma to purchase basic statist r. Course un Normal ance, and A ion of Algeb provide stud provide stud provide stud orces them t the componer orts use, wh c and compu- as from the dents to ana ding of the with their f cs will find	ecting, organiz ves. Solving e nout the course y of the school college credits ical concepts v its will include Distributions, nalysis of Varia ra 2 1 Credit dents the opport o think about t t of the course nat they mean the statistics de study of vide lyze the data a material in w ellow classmat this to be an in	zing, and interpreting everyday problems a e. The student is <u>exp</u> of year. Students enro through Duquesne t will be required for e: Measures of Centr Correlation and	g (inferring) and utilizing ected to take olled in this Jniversity. students to al Tendency, Regression, Year themselves none of their ut advanced calculated. at box scores onent of the ats will have ally through n interest in ging way to					
Course Description Prerequisites Analytics & Statistics	data produce technology w the Advance course also h An assignme complete ove Displaying Probability, T • Succe in Sports This yearlon with a math previous cou statistics tha Students will and drive ch course will r to present th presentations either sports connect the t different setti	l explore met ed by others a vill be emphas ed Placement 1 ave the option ent involving er the summer Distributions, eests of Signific essful complet 2516 g course will course that for rses have. On t different spe l learn to track narts, as well equire the stud- neir understan s and debates or mathematic two and expos- ing. les 11 & 12	hods of coll and themse ized throug Exam in Ma to purchase basic statist r. Course un Normal ance, and A ion of Algeb provide stude orces them the componer orts use, which and compu- as from the dents to ana ding of the with their f cs will find	ecting, organiz ves. Solving e nout the course y of the school college credits ical concepts v its will include Distributions, nalysis of Varia ra 2 1 Credit dents the opport o think about t t of the course nat they mean the statistics de study of vide lyze the data a material in w ellow classmat this to be an in	cing, and interpreting everyday problems a e. The student is <u>exp</u> of year. Students enry through Duquesne I will be required for e: Measures of Centr Correlation and ince. Unweighted ortunity to challenge math in a way that r e will be learning abo , and how they are rived from looking a eo. The other compo nd statistics. Studer vritten form and ora tes. Students with a atteresting yet challen about mathematics in	g (inferring) and utilizing ected to take olled in this Jniversity. students to al Tendency, Regression, Year themselves none of their ut advanced calculated. at box scores onent of the ats will have ally through n interest in ging way to					

<u>Back to Top</u>



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	7542	Music Theory
8040	Introduction to Dance	8055	Modern & Jazz Dance 5	8051	Majorettes – Drill Team –
					Dance Troupe & Production

Cadenza Chorus		7501		1 Credit	Unweighted	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 feelings and emotions through mature interpretation of the written music. For occur, discipline and support of each member of the group and director must place.						
	Students will develop correct singing techniques 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.						
	community grade. One c The chorus encouraged December, a	s will rehearse and perform a variety of styles of music in school and nity performances. Dress rehearsals and performances will be part of the One of the highlights of the year is the SOUNDWAVES recital in the spring. orus groups often take spring performance trips. Although students are ged to go because they are educational and fun, they are not mandatory. In per, after the winter concert, auditions will be held to determine students into upper level chorus groups for the following year.					
Prerequisites	<u> </u>	ctor's signature	<u> </u>				

Select Chorus	-	7505		1 Credit	Unweighted	Year
Select Chorus Course Description	choral study attitudes and be encourage Using the pe feelings and occur, discip place. Select chorus vocal technic	orus consists of and perform d work ethics. ed to study priv owerful media emotions thro line and supp s will study ac que and sight p	ance. These They will b vately. um of music ugh mature ort of each u dvanced the reading in th	niors and senice e students will e expected to p e students will interpretation nember of the pory, music his eir pursuit of o	Unweighted ors who are deeply co l be recognized as h practice outside of cl be encouraged to e of the written music. group and director tory, music appreciat excellence in choral p	ommitted to having good ass and will xpress their . For this to must be in tion, correct erformance.
	knowledge. present at all	Since chorus i	s a performa als and perfo	ince based clas ormances unle	s, students will be ex ss excused by the dir	pected to be
	Students that desire to be in Select chorus audition in late December/early January of their 9 th 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.					
Prerequisites	1		cludes sight	reading, theor	y quiz and a vocal sc	olo.

Band		7511		1 Credit	Unweighted	Year
Course Description	Band is a performance based ensemble with both marching and concert bands. First year students are expected to develop basic playing skills while participating in rehearsals and performances with the ensembles. Notation reading, rhythm decoding, correct intonation as well as developing and applying fundamental vocabulary is taught.					
	pedagogies c cultural and year band Intermediate excellence in marching an	luring this tim social context is designed f playing skill ensemble and d playing skill All music tecl	e. Students and interp to further ls are expe performance l while enco	will understar ret these selec develop marc cted as the s e. Third and fo uraging studen	tice sessions and app and a piece based on the ctions by classification ching and concert k students continue to ourth year band furth nts to assume leaders oped. Students are	e historical, ns. Second band skills. o strive for er develops hip roles in
Prerequisites	Audi	tion and/or D	irector's reco	ommendation	for all band classes.	

Orchestra		7521		1 Credit	Unweighted	Year
Course Description	musicians the variety of mu placed on the classics. Stud orchestral re necessary to	e opportunity usical styles, as a alternative fi lents acquire pertoire. Stu	to explore nd to unders ddling reper musical kr idents are e perform mu	the formal of stand the aesthet corre with control of the towledge and expected to do	ets of all levels. This c qualities of music, to netic value of music. In attinual study and refe appreciation by built evelop advanced ski el these techniques. S	perform a Emphasis is rence to the ilding their lls that are
Prerequisites	Audi	tion and/or D	irector's reco	ommendation	for all Orchestra class	es.

Introduction to Dance		8040		1 Credit	Unweighted	Year
Introduction to Dance Course Description	This course is designed for students who are interested in body movement and self-expression through dancing. Various dance forms will be explored with emphasis on ballet, jazz, and modern techniques. This course will provide students 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 and receive feedback concerning their overall performance. The class members will be required to perform in the Showcase. The course is open to 9 th , 10 th , 11 th and 12 th grades. Students with advanced dance skills and training may audition to be exempted from this course and be placed in the appropriate level dance course. Students are responsible for a \$50 costume fee for Showcase. Should requests for this class exceed a manageable number as determined by the instructor and high school principal, a lottery to reduce numbers to an acceptable class load will be conducted.					
Prerequisites	All s		lress in appr	opriate dance v	vear (black leotards a	
Modern & Jazz Dance	1	8041		1 Credit	Unweighted	Year
Course Description	and jazz dat after being it will have op choreograph Evaluation fo class particip Videotaping	nce forms. En ntroduced to the oportunities to y. or the course is pation, selected	mphasis is o hese forms in learn about s based on p d response t ssment will	on refining and n the Introduct t movement ele performance tas testing, open e also be used t	diate technique in be enhancing technical ion to Dance class. T ements, styles and p eks and rubric assessi ended test, choreogra to elevate progress. S	l awareness The student rinciples of nents, daily aphic tasks.
Prerequisites	 Intro Depa All s tight Parti Be p basis Thos place 	eduction to Dar artment. tudents must c s. Dancewear r cipate in the ar hysically able t s. se students with ed into an adap	nce and have dress in appr must be purc nnual arts sh to perform in h long term i pted physical	e pre-approval f opriate dance v chased by the st nowcase and dr n a highly intens illnesses or inju	for the class from the wear (black leotards a tudent) ress rehearsal (three e se, physical class on a ries may be required as for the duration of	venings) a daily to be
Modern & Jazz Dance	2	8042		1 Credit	Unweighted	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 danc Parti Able Stud an ac 	ern Jazz 1 and ropriate dance rewear purchas cipate in the ar to physically p ents with long	have pre-ap wear (black l sed by the stu- nnual arts sh perform in a term illnesse l education o	proval from dep leotards and bla udent). lowcase and dra highly intense, es or injuries m		venings). aily basis. placed into

Modern & Jazz Dance	3	8043		1 Credit	Unweighted	Year		
Course Description	and jazz dan a more adva elements, st composition. and Cunning Evaluation fo class particip Videotaping	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 a \$120 costume fee for the Showcase.						
Prerequisites	 Approvide a constraint of the second s	ropriate dance ewear purchas cipate in the an nysically able t ents with long	wear (black l sed by the stu nual arts sh o perform in term illnesse	eotards and bl ident.) owcase and di a highly inter es or injuries n	ne Department. lack tights or Nike Pro ress rehearsal (three en nse, physical class on a may be required to be p uration of the medical	venings). a daily placed into		

Modern & Jazz Dance	4	8044		1 Credit	Unweighted	Year
Course Description	develop his/ peer mentor students who C.V. (studen student will act as a teach be a compo- choreographi	Ther skill, tech ing opportun o have higher- ts who are ex- work to refine hing assistant, onent requirin ing a self-dire dance teachers	nnique, chor ities. This level dance cempt from advanced of student chor og the student acted dance	reographic exp course accon skills when e Intro to Danc lance techniqu preographer, ro dent to work piece and/or	ormer the opportunit pertise, analytical rea nmodates the needs ntering the dance de- te in their freshman nes and genres. The so- ole model, etc. There independent of the working as an appr- udents are responsible	soning and of the few partment at year). The student will would also e class by entice with
Prerequisites	Appr dance	ern and Jazz D ropriate dance ewear purchas ner recommend	wear (black l ed by the stu		ack tights or Nike Pro).

Modern & Jazz Dance	5	8055		1 Credit	Unweighted	Year
Course Description	develop his, peer mentor: needs of the department is student will act as a tea required to piece and/o choreograph items must b	/her skill, tech ing opportunit few students v at C.V. (studen work to refine ching assistant work independ or working a ers. All studen	hnique, chor ies at a more who have hi its who exen advanced c tt/student c dently of the s an appre- nts must dre	eographic exp e advanced lev gher-level dan upt Intro to Da lance techniqu horeographer e class by chor ntice with pr ess in a black	ormer the opportunit pertise, analytical rea- rel. The course accom- ce skills when enterin- ance in their freshman- ues and genres. The and role model. S reographing a self-dir rofessional dance te leotard and black tig tudents are responsib	isoning and modates the og the dance n year). The student will tudents are ected dance achers and ghts. These
Prerequisites	• App Dane	ern and Jazz D ropriate dance cewear purchas her recommend	wear (black l sed by the st		ack tights or Nike Pro).

<u>Back to Course List</u>

Majorettes Drill Team Dance Troupe Dance Production		8051		1 Credit	Unweighted	Year
Course Description	routines for each opportunity to p During the first r band festivals and or practices for S if selected, will b develop performa also a competition National Compet These items must year, the student	season. This ractice with the nine-week per d parades. Dur howcase. All se scheduled be ance skills and on team. The ition. All stud to purchased the in this class mer. Dance the	course will he marching iod, the unit ring the seco students inte y the advise a will partici ents must du at the stude s will have coupe also a	provide the m band. The c rehearses for and nine-week erested in takin or. Members c ipate in severa pete at three ress in a black ent's expense. summer prac ttends a camp	and Majorettes to we aajorettes and drill tea lass meets five (5) da performances at foot period, the unit takes ag this course must au of the Dance Troupe we al dance shows. Dance Regional Competitio leotard, black tights o In addition to the reg tices that start in Mo o in July for four days outs.	am with the ays a week. tball games, dance class idition, and, will work to ce Troupe is ns and one r Nike Pros. gular school ay and run
Prerequisites		& Recommend				

Introduction to The	eatre Arts	8100		1 Credit	Unweighted	Year
Course Description	Tech theater stu costumes, and m	idies will inc ake-up. Perfo neater history,	lude produ rmance stud stage directi	ction concepts lies will includ	rformance aspects of s and design for lig le an introduction to t gy, voice & speech, im	ghting sets, the basics of
Prerequisites	• Grades 9	, 10, 11 & 12				

Acting 1		8201		1 Credit	Unweighted	Year
Course Description	learn more abou scenes, and one a	t this art. Stu ct plays. Clas	idents will p s presentatio	perform impro	ng career or who mer ovisations, work on n taping will provide op vith immediate feed	nonologues, oportunities
	class exceed a r	All students will be required to perform in an acting production. Should requests for this class exceed a manageable number as determined by the instructor and high school principal, students will be required to do a monologue audition for placement in the class.				
Prerequisites	Grades 9,Introduct	10, 11 & 12 ion to Theatre	Arts			

Acting 2 & 3		8202		1 Credit	Unweighted	Year
Course Description	course is for stud more about this and one act play	lents who are art. Students ys. Class pre	interested ir will perform sentations a	n an acting can i improvisatio nd videotapir	aining in the art of A reer or who merely w ns, work on monolog ng will provide oppo ith immediate feedl	ant to learn ues, scenes, ortunities to
	class exceed a r principal, student	All students will be required to perform in an acting production. Should requests for this class exceed a manageable number as determined by the instructor and high school principal, students will be required to do a monologue audition for placement in the class.				
Prerequisites		10 11 & 12 and/or Intro to and teacher re				

Music Theory		7542		1 Credit	Unweighted	Year
Course Description	methods that chord progre	will provide	a thorough u ructures, and	understanding l how each mu	d aural music theory of basic composition usical era's applied th n music.	techniques,
Prerequisites						



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 lifestyle. 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 9-10	8036	Sports Officiating & Principles of Coaching
8025	Health 9-10	8038	Partners in Physical Education (2 Days)
8514	CiHS Nutrition		Dance (Descriptions in Performing Arts)
8034	Lifetime Activities (2 days)	8070	Personal Fitness & Healthy Living
8027	Drivers Theory		

Physical Education (4-5 days)		8032		.25 Credit	Unweighted	Semester
Course Description	and physica maintain a h develop po Students wi	l activity. Ac nealthy active sitive attitude Il have the o creational rac	tivities will lifestyle. es, responsi opportunity	enable stude The course is o ble habits, as to participat	Education is lifetime fit nts to develop skills r designed to enhance ac nd exhibit good spo e in; swimming, fitne sports, volleyball an	necessary to etivity level, rtsmanship. ess, weight
Prerequisites	 Requ 	uired grades 9	& 10			

Health 9-10		8025		.5 Credit	Unweighted	Semester
Course Description	opportunity placed on th of life. Stud- issues and aj real life scen include; stre- prevention,	to learn about e importance c ents are encou pplying prever narios and un- ss, mental heal school violenc	physical, m of making he raged to dev ntative strate derstand the h, mental d e, nutrition,	ental and social althy decisions elop optimal h gies. Students impact of pe- isorders, healt physical fitne	to provide stud al aspects of health s that will lead to a health through reco will connect acade ersonal choices. U thy relationships, a ess, non-communic htal health, tobacco	h. Emphasis is higher quality gnizing health emic content to Jnits of study buse, bullying cable diseases,
Prerequisites	• Requ	uired grades 9 a	& 10			

Lifetime Activities (2 days)		8034		.25 Credit	Unweighted	Year
Course Description	sports, and p to maintain a develop posi Students wil tennis, recrea	physical activity healthy active tive attitudes, l be offered a v	y. Activities v e lifestyle. Th responsible h ariety of acti sports (pickl	vill enable stud e course is des nabits, and exh vities to includ eball, badmint	Education is lifetir dents to develop sk igned to enhance a ibit good sportsma le: physical fitness, on, and table tenni alcohol unit.	ills necessary ctivity level, nship. volleyball,
Prerequisites	• 11th & 12th Grade students					

CiHS Nutrition		8514		.5 Credit	5.5 weight	Semester
Course Description	ourse Description This course will cover an overview applications to humans at the indiv course will also introduce the stuc nutrition, and health status can be course will run through University students who earn it				and environmental tetics profession and psychosocial perspe	levels. This l how food, ective. This
Prerequisites		es 11 & 12 only				
	Succ	essful completi	ion of Health	n 9 & 10		

Drivers Theory		8027		.5 Credit	Unweighted	Semester
Course Description	techniques. application o accordance w	The elective f how to opera vith PA driver	course inti ate an auton guidelines a	roduces stude nobile, rules an nd information	itudes necessary for s nts to the theory ar nd regulations. Curri n from the PA driver's d their consequences.	nd practical iculum is in s handbook;
Prerequisites	Grad	es 10, 11 & 12				

Sports Officiating and	Principles	8036		.5 Credit	Unweighted	Semester
of Coaching	-					
Course Description	es of the offi on experienc hy along wi ese concerns	ciating profess ce working in th best practic . At the conclu	study the art, science sion across all levels of teams, combined wit es from sport though asion of this course st a sports official after t	f sport. This h a study of t-leaders, to tudents will		
Prerequisites	Grad	les 9, 10, 11 & 1	2			

Partners in Physical E	ducation	8038		.25 Credit	Unweighted	Year (2 Days)
Course Description	involves wor course (Part with special demonstrate fully particip activities and but are not	rking with stud ner PE) is an i needs with the s PE activities, pate in PE class d awareness of	dents with s nclusive ap eir general e , motivates ss. The activ the import veight train	special needs. proach to phy education pees and supports rities are desig ance of good p ing, racquet	ted in exploring a care The Partner in Physica sical education that parts (peer partner). The p the students with spect gned to help promote b personal fitness. Activit sports, fitness, diamo	er path that I Education irs students peer partner ial needs to leisure-time ties include
Prerequisites		les 11 & 12				

Personal Fitness & Hea	althy Living	8070		.25 credit	Unweighted	Year (2 days)		
Course Description	Obesity, diabetes and poor mental health are on a rise in the US. This PE course be available to upperclassmen who would like to focus more on individual fitness rather than group lifetime activities. In this course, students will be exp more individual ways to work out; weight room, yoga, running, HIIT an aspects. With this course, students would also be educated on nutrition. Three the course, students will work towards goals to accomplish with their physical							
Prerequisites	• 11 & 12 only							

Dance						
Course Description				ning Arts section of th	e Academic	
_	ance will meet	t PE requirer	nents for all gi	ade levels.		
Prerequisites	All grades					
-	Performing Art	s Departmer	nt offerings			

(Back to All Course List)

Science



3332

Honors Chemistry

_					
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
3210	Physical Science	3422	Physics	3355	Principles of Biomedical Science (PBS)
3209	Explorations of Life on Earth	3441	AP Physics 1	3360	Human Body Systems (HBS)
3331	Chemistry w/ Lab	3445	AP Physics 2	3365	Medical Interventions

3450

Biology Lab		3221		1 Credit	Unweighted	Year
Course Description	living things biology, such homeostasis and ecology. understand a through the This course is	The emphas as basic biole and transport, Students wil and apply their use of case studes intended for	is for the co ogical princi cell growth l work inde r skills. App dies, role pla students wh	urse is on the ples/cells, che and reproduc pendently, in s lication to real ys, hands on a o may or may	a solid foundation of big ideas and unifyin emical basis of life, bi- tion, genetics, theory of small groups and larg l world concepts are of ctivities and laborator not be college bound higher level science effective	g themes in oenergetics, of evolution ge groups to emphasized ry exercises. and
Prerequisites	None	2				

AP Physics C: Mechanics

Honors Biology		3133	Honors	1 Credit	5.0 Weight	Year
Course Description Honors biology is a first year the study of living things. unifying themes in biology. chemical basis of life, bioene reproduction, genetics, ecologies		. The fram gy. Topics nergetics, he	ework for the include basic omeostasis and	course is on the big biological principle cell transport, cell g	g ideas and s/cells, the growth and	

3370

Biomedical Innovation

	daily reading and review. Students will work both independently and in groups to apply biological concepts. The course incorporates hand-on activities, role plays, and laboratory exercises when appropriate. This course is intended for students that are highly motivated, college bound, and typically will take one or more Advanced Placement science courses throughout their high school career.
Prerequisites	 93% in 8th grade science Teacher recommendation

Physical Science	3210		1 Credit	Unweighted	Year	
Course Description	basic concep Physical scie works. Usin concepts of	ts of chemistry nce will equip g a variety c motion, forces	v and physic students to of labs, activ s, the atom,	s, with an emp better underst vities, and pro	to allow students to ohasis on theory and a cand how the world a ojects, students will cions and more, learn d.	application. round them explore the
Prerequisites	• Grad	es 10, 11, 12				

Explorations of Life on Earth		3209		1 Credit	Unweighted	Year
Course Description	astronomical as well as the students invo- laboratory in ensure a bethe to understan sustainability	evidence for ne systems the estigate the his vestigations to er understand d and appreci	the formation at have share tory of and of observe diffing of the co ate the role ng biological	n of the unive ped and conti liversity of life ferent organisr omplexity of li of biodiversit diversity in n	ty of topics, beginning erse, to the history of inue to shape life on e on Earth, they will part ns and integrate current fe. The topics will allow y and the importance nodern day society. The bound.	early Earth, a Earth. As articipate in ant events to ow students e of human
Prerequisites	• Grad	es 10, 11, 12				

Chemistry w/ Lab33311 CreditUnweight						Year		
Course Description	a non-science basic princip simulations, contribute to their ideas o other course mathematica students, and Topics cover including ra	This is a first year chemistry course intended for students planning to attend college in a non-science related field. This course provides students with an understanding of basic principles of chemistry through classroom lectures and discussions, PHET simulations, classroom activities, and laboratory techniques. This course should contribute 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 addressed, pace, the level of mathematical analysis required, the time commitment spent on the course by the students, and the nature and variety of weekly experiments done in the laboratory. Topics covered in this course are dimensional analysis, matter, atomic structure including radioactive decay, quantum mechanics, periodic law, nomenclature reactions, stoichiometry, bonding, and gas laws						
Prerequisites	• 80% :	in Biology OR in Algebra 1 A ner Recommen	ND/OR 70%	0,	eometry			

Honors Chemistry	3332		1 Credit	5.0 weight	Year
Course Description	2	<i>y</i> 1	2	v course. Designed ts to learn more che	

	deeper level. This course provides students with an understanding of basic principles of chemistry through classroom lectures and discussions, classroom activities, and laboratory techniques. Honors chemistry covers topics such as matter, atomic structure, nomenclature, stoichiometry, reactions, thermochemistry, periodic trends, bonding and gasses.
Prerequisites	 Grade 10 Passed Honors Biology or earned an 80% in Biology Lab Passed Algebra 2 OR 80% in Combined Geometry

AP Chemistry		3341	AP	1 Credit	5.5 Weight	Year
Course Description	This elective course is a 2 nd year Advanced Placement chemistry course that is equivalent to two semesters of college level chemistry and is intended for students planning to attend college for chemistry, engineering, medical fields or other science related areas in college. Laboratory work is an integral part of the course. This course provides the rigorous training needed for success on the AP chemistry test and SAT II Chemistry subject based test. This course should contribute 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 is a rigorous course that requires a large time commitment since the course itself is fast paced in order to have students prepared for the Advanced Placement Exam offered in May of the school year. Students are expected to take the AP Exam as a component of this course. Summer reading and assignments are required. Failure to complete summer assignments will result in a grade penalty. Failure to complete summer assignments will result in a grade penalty. Failure to complete summer assignments will result in a grade penalty. Failure to complete forces, chemical kinetics, thermodynamics with electrochemistry, equilibrium, and acid-base theory.					
Prerequisites	• 70%	in Honors Che	mistry or 90	% in Chemistr	y w/Lab	
Anatomy & Physiolog	у	3350		1 Credit	Unweighted	Year
Course Description	human anato body system cardiovascula be recommen field such paramedics, technicians, science cours	omy and physic ar, blood, resp nded for stude as physician scientists, p forensics and es.	ology. The s died includi iratory, dige ents that are s, physician hysical the bioinformat	tructure, funct ng skin, muso stive and the s interested in n assistants, rapists, occuj ics. This cou	be a rigorous, in de- tion and imbalances culoskeletal, nervous pecial senses. This co- pursuing a career in nurses, medical te pational therapists, rse is not a replacer	(diseases) of , endocrine, ourse would the medical echnologists, geneticists,
Prerequisites		essful complet		istry		
Physics		3422		1 Credit	Unweighted	Year
Course Description	This is a first year Physics course intended for students planning to pursue a career in a non-science related field. This course provides students with a basic understanding of matter and energy through classroom lectures and discussions, online assignments, classroom activities, labs and projects throughout the year. Students will use mathematical analysis along with conceptual application of concepts to solve real world problems. A basic investigative approach dealing with the interrelationships of mass, motion and forces is studied. These topics lead to the investigations of various forms of energy such as light, sound, electricity, and magnets.					
Prerequisites	 forms of energy such as light, sound, electricity, and magnets. Successful completion of Honors Geometry or 75% or higher in Combined Geometry Completed chemistry Teacher Recommendation 					

AP Physics 1		3441	AP	1 Credit	5.5 Weight	Year
Course Description	semester coll problem solv through inqu environment	ege course in ing and lab sk iry-based inve . Topics cove	algebra-base kills. Studen estigations w ered will be	ed physics. Th its will cultiva while integratir e Newtonian	course that is equival his course will focus of te their understandin ng technology into the Mechanics (including ound and introductio	on students' g of Physics e laboratory g rotational
Prerequisites	 Honors Chemistry or 80% in Lab Chemistry Teacher recommendation 					

AP Physics 2		3445	AP	1 Credit	5.5 Weight	Year
Course Description					physics course that is	
					course. This course w	
					cultivate their under	
	Physics through	n inquiry-base	d investigat	ions as they e	xplore topics such as	fluid statics
	and dynamics;	thermodynar	nics with k	kinetic theory;	PV diagrams and	probability;
					gnetic fields; electro	magnetism;
	physical and ge	ometric optics	; and quantu	ım, atomic, and	l nuclear physics.	
Prerequisites	Successful completion of AP Physics 1 or 90% in Practic					
	Teacher Recommendation					
	1					

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, calculus-bac college-level physics course. It is especially appropriate for students planning specialize or major in physical science or engineering. The course explores topics succ kinematics; Newton's laws of motion; work, energy and power; systems of particles linear momentum; circular motion and rotation; and oscillations and gravitate 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 					
	 Success 	ful completion	of AP Calcu	alus or current	ly enrolled	

AP Physics C: Electr	AP Physics C: Electricity and		AP	.5 Credit	5.5 Weight	Semester
Magnetism						
Course Description	Advanced Placement Physics C: Electricity and Magnetism is an elective one-sen calculus-based, college-level physics course, especially appropriate for students pla to specialize or major in physical science or engineering. The course explores topic as electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic and electromagnetism. Introductory differential and integral calculus is used throu the course.					
Prerequisites						

AP Biology		3442	AP	1 Credit	5.5 Weight	Year
Course Description	college biology The course aims and analytical s biology. The cur evolution drives	Placement Biol course usually to provide str skills necessar riculum is bu the diversity	logy course taken by b udents with y to deal c ilt around and unity o	is an elective of iology majors the conceptua ritically with four big ideas of life. 2.) Biolo	designed to be the equ during their first yea: I framework, factual the rapidly changin . They include 1.) The ogical systems utilize naintain dynamic hom	iivalent of a r of college. knowledge, g world of e process of free energy
	Living systems	store, retriev	e, transmit	and respond	to information essents and their interaction	ntial to life

	complex properties. Extension homework and laboratory work are required. Students are expected to perform extensive readings in biology and are <u>expected</u> to take the AP Biology exam.
Prerequisites	Successful completion of Biology and concurrently enrolled or completion of
	Chemistry
	Teacher Recommendation

Principles of Biom	Principles of Biomedical Science (PBS) 3355 PLTW (Honors) 1 Credit 5.0 Weight Y									
Course Description	This is the first course curriculum. This rigorous be interested in various physicians, physician as physical therapists, occup bioinformatics. Student work involves th bioinformatics, and the u model and analyze biolo various health conditi hypercholesterolemia and medical treatments that homeostasis, metabolism disease are embedded in process, feedback loops a curriculum. This course	e offering s elective profession ssistant, bational the e study o use of com gical syst ons incl d infectio might ha , inherita n the cui nd the rei	in the Project Le course is offered to 9 ons in the medical nurses, medical tec nerapists, geneticists, f human medicine, re nputer science, math ems. Students invest uding heart disea us disease. Students ave prolonged life. ance of traits, feedh rriculum. Engineerir lationship of structur	ad the Way 9 th and 10 th g field includ thnologists, genetic cou esearch proce- tigate the hu- use, diabete s investigate Key biologi pack system g principle re to function	Biomedical grade students ing but not li paramedics, s nselors, technic esses, an introd d information uman body systes, sickle-cell e life-style cho ical concepts i us and defense s including the n are incorporation	Sciences who may mited to scientists, cians and uction to theory to tems and disease, pices and ncluding e against e design ted in the				
Prerequisites	program and lays the fourScience teacher or		or subsequent courses ounselor recommenda							
1										

Human Body Systems (HBS)			PLTW (Hone	ors)	1 Credit	5.0 Weight	Year		
Course Description	 This is the 2nd course offering in the Project Lead the Way Biomedical Sciences curriculum. This is a rigorous elective course offered to 10th and 11th graders that have completed Principles of Biomedical Science and are interested in professions in the medical field including physicians, physician assistants, nurses, medical technologists, paramedics, scientists, physical therapists, occupational therapists, geneticists, technicians, forensics and bioinformatics. In the Human Body Systems (HBS) course, students examine the interactions of body systems as they explore identity, communication, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal Manikin, work through interesting real world cases, and often play the role of biomedical professionals to solve medical mysteries. Students practice problem solving with structured activities and progress to open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills. 								
Prerequisites	 Completion of Principles of Biomedical Science with a minimum of 70% Teacher recommendation 								
	I			1	- 41				
Biomedical Innova	ation 3	370	PLTW (Honors)	1 Cı	redit	5.0 Weight	Year		

<u>Back to Top</u>

Course Description	In this capstone elective Project Lead the Way course, students apply their knowledge and skills to answer questions or solve problems related to the biomedical sciences. Students design innovative solutions for the health challenges of the 21st century as they work						
	through progressively challenging open-ended problems, addressing topics such 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 or 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 may 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 with a min of 70% Teacher recommendation 						

(Back to All Course List)



Social Studies



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 States	4345	Shaping of the Modern World (CiHS)	4406	Economics
4002	Honors – Development of the United States	4346	AP U.S. Government and Politics	4407	Law and Government
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 Studies	4405	Psychology		

Development of the United States		4000		1 Credit	Unweighted	Year				
Course Description	This 9 th grade required course in social studies is a survey of United States history from									
1	1800-1945. T	he century an	id a half	is a pivotal p	period in our history	y when we				
					e the consolidation of					
	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, students will study the conflicts									
					20 th (World War I) ce					
	catapulted the nation onto the world spotlight. The study ends with examining the									
					0 th century, the Great					
					rite substantive essay	1				
		project-based assignments, become involved in seminars, and other activities that								
	make the cours	se active learnii	ng. This co	ourse will be co	onducted at a modera	te pace.				
Prerequisites	Grade	s 9, 10, 11, & 12								

Honors Development of the United States		4002	Honors	1 Credit	5.0 Weight	Year	
Course Description	This required 9 th grade course provides students the opportunity to st development of the United States at a highly accelerated pace. The same ye content described above will be the material for the course. Students in this co on track to take Advanced Placement courses so the study is rigorous and more of the complex concepts in American history. Students will also be challed the high expectations of the College Board.						
Prerequisites		or better in 8 th ner recommeno		Studies			

World Cultures		4005		1 Credit	Unweighted	Year			
Course Description	This required course deals with the history and cultures of people in Europe, the Middle East, Latin America, East Asia, and Africa from the 1700s through the present day. The course explores various political ideologies; gender roles; social organizations; conflicts; religious beliefs; and economic systems. Students will be expected to understand global interdependence as it relates to culture, resource management, conflict and human rights. Students will be regularly exposed to primary source documents in order to better understand specific events or time periods from the perspective of the people who experienced them firsthand. Students will refine their ability to read for comprehension and critical analysis; summarize, categorize, compare, and evaluate information; write in a concise manner; express facts and opinions orally; produce exhibitions in a cooperative setting; and use technology appropriately to present information. The first semester of the course will cover the Enlightenment, French Revolution, the Industrial Revolution, Revolutions in Latin America, the Rise of Nationalism, New Imperialism, World War I, and the Russian Revolution. The second semester of the course will cover the Interwar Period, World War II, the Cold War, the Emergence of New Nations, Regional Conflicts, and the Developing World.								
1	tures	4006	Honors	1 Credit	5.0 Weight	Year			
Course Description	Ionors World Cultures4006Honors1 Credit5.0 WeightYearCourse DescriptionVarious themes including political ideologies, gender roles, social organizations, conflicts, revolutions, religious beliefs and economic systems will be explored 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 source documents in order to better understand specific events or time periods from the perspective of the people who experienced them firsthand. Students will continue to refine their ability to read for comprehension and critical analysis; summarize, categorize, compare, contrast and evaluate information; write in a concise style; express facts and opinions, both in written and oral forms; produce exhibitions in a cooperative setting; and utilize technology appropriately to present and comprehend information.The first semester of the course will be a comprehensive study of the Enlightenment, French Revolution, the Industrial Revolution, Revolutions in Latin America, the Rise of Nationalism, New Imperialism, the Great War and the Russian Revolution. The second semester of the course will cover the Interwar Period, World War II, the Cold War, the Emergence of New Nations, Regional Conflicts and the Developing World.								
Prerequisites • 85% in Honors American Cultures • 90% Advanced American Cultures • Teacher recommendation									
Contemporary US/Global Studies 4010 1 Credit Unweighted Year									

<u>Back to Top</u>

<u>Back to Course List</u>

Course Description	This course will guide students from the beginning of World War II through the early 21st century. Students will examine the 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 minorities and women; and the role of the United States as a major world power. An emphasis is placed on the expanding role of the federal government and federal courts as well as the continuing tension between the individual and the state. The desired outcome of this course is for students to develop an understanding of the cause-and-effect relationship between past and present events, recognize patterns of interactions, and understand the impact of events on the United
Duran anicitar	States in an interconnected world.
Prerequisites	• Grades 9, 10, 11, & 12

CiHS Shaping of the N	Aodern World	4345	CiHS	1 Credit	5.5 Weight	Year
Course Description	It will examine the circa 1900 and integ America, and Afric better perspective a skills to be able to p Students will be ex they will experience used in colleges. Since this course is a students who want	forces a grate the a. An i nd unde roject th posed to e in colle articulat to earn o	nd shaping e United Sta intense stud erstanding c e foreseeabl o rigorous p ege. "Blue red through college credi	agents that ha ites experience by of the last 5 of their own we e future of the primary source book" essays a Duquesne Uni its. Students n	century and into the we produced great ch with that of Europe, 50 years will give the orld and have the kno modern world. es, assignments and th are a common assessm iversity, there is a fee in any obtain three colleg	Asia, Latin Asia, Latin e students a wledge and ninking that nent that are nvolved for
Prerequisites	85% in AdvTeacher reco			cial Studies		

AP U.S. Government and Politics		4346	AP	1 Credit	5.5 Weight	Year
Course Description	government of general co examples. T and politics and consequ reviewed. C	and politics in oncepts used t he institutions will be studied dences, and the College-level te	the United o interpret of groups, bed d. In additione structure exts and other	States. This e our political sy liefs, and ideas ion, theories o and procedu er college-leve	is an analytical per lective course include stem and the analysis that constitute U.S. § f government, politic res of our governme l materials are used in May, is an integral	es the study s of specific government al behavior ent will be in the class.
Prerequisites	• Grad	les 11 & 12				

AP Psychology		4347	AP	1 Credit	5.5 Weight	Year
Course Description	this Advance acquaint stuc cross-cultura psychologica cooperative personality,	ed Placement/ dents with the l perspectives l research. activities, rese development,	College in field of psyc , analyze po The course earch essays research, a	the High Sch chology, prome opular media is a combin s, and presen bnormal psyce	nd and behavior. The bool elective course i ote critical thinking sk claims, and examine hation of lecture, lal tations. Sample top chology, memory, an ne University of Pitta	s to further ills, explore e published o activities, pics include d learning.

	complete four quarterly exams and a cumulative final. Students who do not purchase the CiHS credits are expected to take the AP Psychology exam at the conclusion of the course.
Prerequisites	 90% in Psychology or 85% in AP United States History 85% in CiHS Shaping of the Modern World Teacher Recommendation

AP United States Histo	ory	4348	AP	1 Credit	5.5 Weight	Year			
Course Description	ory4348AP1 Credit5.5 WeightYearAdvanced Placement U.S. History (APUSH) is a rigorous college-level introductory course, which examines the nations' political, diplomatic, intellectual, cultural, social, and economic history from 1491– present. APUSH is arguably one of the most challenging of the courses offered by the College Board. As a result, a variety of instructional approaches are employed and a college level textbook is supplemented by primary and secondary sources. Significant outside reading and assignments are required for success in this course.The curriculum of this course is designed to help students develop critical thinking skills and factual knowledge necessary to deal analytically with the complex history and documents presented in U.S. history. The complexity of topics, discussions and tempo of course will better prepare students for the rigors of college level courses.								
Prerequisites		les 11 & 12 in an Honors c	ourse OR 95	% in an Adva	nced social studies	2			

Psychology		4405		1 Credit	Unweighted	Year
Course Description	research met include scie perception, s course will c	hods, and con ntific method tates of consc hallenge stude	tributions to s in psych ciousness, lea ents to use th	the understan ology, biolog arning, memo	y and its basic concep nding of human beha ical psychology, sen ry, cognition and lan tive abilities in order t f self.	vior. Topics sation and guage. This
Prerequisites	• Grad	es 10, 11 & 12				

Economics		4406		1 Credit	Unweighted	Year
Course Description	to the individ issues such a cycle. Macr policy, intern the history of	lual and other s the law of su oeconomic issuitational trade a of economic t	economic sy upply and d ues will incl and compara hought as v	vstems. Specifi emand, factors ude money an ative economic well as curren	ican economic system ic units will cover mic s of production, and t nd banking, monetar systems. We will be t economic issues. ting and challenging	roeconomic the business y and fiscal touching on The current
Prerequisites	• Grad	es 11 & 12				

Law and Government		4407		1 Credit	Unweighted	Year
Course Description	Law and Government, an elective , is the study of the fundamentals of our Ame government along with a review of our justice system. The class is divided int				ed into two	
	components: Civics and Street Law. With the study of government, students will lear 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 due process rights. The criminal justice process will be reviewed from arrest through sentencing. Guest speakers will be utilized throughout the school year to complement 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	• Grades 11 & 12

AP Macroeconomics	_	4409	AP	1 Credit	5.5 Weight	Year	
Course Description	The goal of this elective course is to give students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. It places primary emphasis on 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 they apply to the various levels of government. The course is a combination of lecture, cooperative activities, research projects, graph analysis, and presentations. Students should expect to take the AP Macroeconomics exam at the conclusion of the						
Prerequisites	course. Summassignments • Grad		nd assignme weighted pe	ents are requir	red. Failure to comple		
		in AP U.S. or C ner recomment	1 (5			

AP Microeconomics		4410	AP	1 Credit	5.5 Weight	Year			
Course Description	course that individual e with the op	Advanced Placement Microeconomics, an elective, is an introductory college-level course that focuses on the principles of economics that apply to the functions of individual economic decision-makers. The course also develops student familiarity with the operation of product and factor markets, distributions of income, market							
	economy. St	failure, and the role of government in promoting greater efficiency and equity in the economy. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts.							
Prerequisites	90%85%	le 11 & 12 in Honors Wor in AP U.S. or C ner recommend	iHS Shaping	5					







(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		

French 1		5011		1 Credit	Unweighted	Year
Course Description	communicate on placed on the sk study of the coun film clips are use in a variety of c Performance Ass materials, speakin in cultural exper learning about F	everyday topic ills of listening try, as well as a d to reinforce c reative activiti sessments (IPA ng opportunitie riences such as rench holiday	ts in the pr s, speaking concepts ar es, includi (A) are use es and liste s making o traditions. s much as	esent and near and pronunc aris, is a very in ad skills too. In ang role-plays, ad with every ening compreh crêpes and cro The course is possible in F	idemic learner, stude future, with particula ciation. French culture mportant component. addition, students al games, and projects y unit to incorporate tension. Students will oque monsieur sand proficiency-based, as rench as well as unde	ar emphasis e, including Music and so take part . Integrated e authentic l participate wiches, and nd students
Prerequisites	• 75% in 8 th	[°] Grade French	or Teacher	recommenda	tion	

French 2		5012		1 Credit	Unweighted	Year
Course Description	This elective course continues to develop the proficiency of previously mentioned skills					ned skills.
1	Dialogues, patte	rn practice, an	d question-a	answer exercise	es play an important r	ole. Word
	placement and f	oundation gra	mmar work	into developir	ng competency in both	ı reading
	and writing.					
Prerequisites	• 75% in l	French 1 - 2 nd s	emester			
-	Teacher	recommendat	ion			

French 3		5013		1 Credit	Unweighted	Year
Course Description	emphasis on rea well as short ess literature and m French art, Fre Students use interpersonal co by integrating skills are introd	ading and wri says. More emp on-fiction cult nch heritage Integrated P mmunication, reading, writin uced, but stuc in speaking	ting. Studen ohasis is plac ural pieces and other t erformance presentatior ng, listening lents are exp	ts write longer ced on indeper relating to Fre opics. A film Assessment nal communica comprehensio pected to apply	g and speaking while r and more complex s ndent reading of author ench Africa, 19th & 2 study is included a lessons (interpretiv ation) to increase their on and speaking. New y skills already learned in accordance with	sentences as entic French 0th century t this level. re reading, proficiency w grammar ed. Students
Prerequisites		French 2 - 2nd Recommenda				

CiHS French 4		5014	CiHS	1 Credit	5.5 Weight	Year		
Course Description	fluency, practici past time (inclu (relative, direct, conditional. Stu writings are lor listening compr text and authen proficiency. This course is	ing and expar iding imperfe- indirect) as v dents read inco- ger and more rehension, and tic French film articulated earn 3 credits	nding upon ct tense and vell as reinfo dependently e sophisticato more exter as with detain through Du	previously lea l plus que par orce structures at a more adv ed. There is a sive reading a iled follow-up	udents learn to speak irned grammar conce- fait), future time, and s such as the subjunct vanced level, keep a j focus on advanced co and writing. Film clip are used as a resource rersity and students be involved for students	epts such as d pronouns tive and the journal, and onversation, ps from the e to enhance s have the		
Prerequisites	• 80% in l	• 80% in French 3 - 2nd semester						
German 1		5021		1 Credit	Unweighted	Year		
Course Description	understandir vocabulary. I then practice grammar co self-discipling	This elective course is proficiency based in order to develop competency in understanding, speaking, and writing in German within a restricted area of vocabulary. Basic speech patterns are introduced and practiced orally. Students will then practice these new speech patterns and adapt them to varying situations. Basic grammar concepts are introduced. The student must assume responsibility for self-discipline and self-direction in the classroom.						
Prerequisites	U U	her recommend	0	Suern Languag	ge class.			

German 2	5022		1 Credit	Unweighted	Year	
Course Description	speaking and controlled rea expanded and	writing skills ding increas l completed.	. Vocabulary es as the y Conversatio	is introduced year progresse on and other	ntinues to develop the l more rapidly, and the es. Basic grammar co oral activities are st cipline and self-direct	e amount of oncepts are ressed. The
Prerequisites		German 1 - 2				
	 Teache 	er recommend	dation			

German 3	5023		1 Credit	Unweighted	Year	
Course Description	while increas active and pa level. Suppl German voca	ing emphasis assive vocabul ementary aud	on reading a ary. Gramma lio excerpts student mus	and writing. T ar continues to , videos, and	iciency in listening an here is extensive build be developed at an in l websites reinforce ponsibility for self-dis	ling of both ntermediate situational
Prerequisites		in German 2 - 2				
	Teacl	ner Recommen	dation			

CiHS German 4	5024	CiHS	1 Credit	5.5Weight	Year	
Course Description	development and literary explore cultu Since this cou	of oral and w texts, review ral trends and	ritten skills. grammar i issues. ted through	Students will 1 n the context Duquesne Uni	se is designed to co read and discuss selec of situations and rea versity, there is a fee i	ted cultural adings, and
Prerequisites	• 80%	in German 3				

		Teacher Recommendation
--	--	------------------------

Spanish 1		5108		1 Credit	Unweighted	Year
Course Description	skills in Spar to language the use of Spa	hish – listening learning is intr anish. Students who	, speaking, 1 roduced; kno	reading, and w wledge of oth	ents to acquire basic vriting. A content base her subjects is reinford y School District have	ed approach ced through
Prerequisites	StudeStude		han 75% in 0 ew to Charti	Grade 8 at Cha	at Chartiers Valley; o artiers Valley Spanish; ool District.	

Spanish 2	5110		1 Credit	Unweighted	Year	
Course Description	topics and contract themes. An i	ontent-based	lessons conr guage profic	nected primari	a mix of everyday cor ly to English and So plished through readi	cial Studies
Prerequisites	seme	-		iers Valley or	Spanish 1 at Chartier	rs Valley-2 nd

Spanish 3		5112		1 Credit	Unweighted	Year
Course Description	topics and co	ontent-based le	essons conne	cted primarily	n mix of everyday cor to Humanities theme e while building profi	es. Students
	more extensive reading, writing, listening, and speaking tasks.					
Prerequisites	• 75%	in Spanish 2 –	2 nd semester			
-	Teacl	ner Recommen	dation			

CiHS Spanish 4	_	5114	CiHS	1 Credit	5.5 Weight	Year
Course Description	emphasis on listening for demonstrate cultural aspe Since this cou	extensive read comprehens mastery of ex cts of Hispanic	ding, writing ion and pr ssential gran countries an ted through	g, and commu comoting flue nmatical conc re an integral p Duquesne Uni	ers an advanced curri unication skills. There ency in speech. An epts is expected. His part of the course. versity, there is a fee i	is focus on ability to storical and
Prerequisites		in Spanish 3	. .			
	 Teacl 	ner Recommen	dation			

AP Spanish Language	5116	AP	1 Credit	5.5 Weight	Year	
Course Description	greater profit resources in thematic unit Spanish Lan presentationa Connections, Language Le	ciency and mo meaningful si ts will augmer guage, studer al scenarios Comparisons arning in the 2	re accurate a tuations. Lis at and enhar ats will con within the , and Comm 21 st Century.	pplication of 1 stening, speak ace vocabulary nmunicate in five goal a nunities) outlin The course is	Language is to guide anguage skills by usir ing, reading, and wri and grammar acquis interpersonal, interp reas (Communicatio ned in the Standards similar to most third- riting in the target lan	ng authentic iting within sition. In AP pretive, and n, Culture, for Foreign year college

	advanced level. Failure to complete the summer assignments will result in a grade penalty.
Prerequisites	• 80% in CiHS Spanish 4
-	Teacher Recommendation

Spanish Communication		5117		1 Credit	Unweighted	Year	
through Contemporary							
Course Description		In this course, students will increase their Spanish proficiency in speaking, writing,					
	reading, and listening while considering contemporary topics related to the						
	Spanish-speaking world. Authentic resources such as films, novels, and current events						
	will inspire higher-level analysis and discussion. Critical thinking and writing						
	composition in this course will continue to prepare students for post-secondary						
	education.						
Prerequisites	• 75%	in CiHS Spanis	sh 4 or Teach	er Recommen	dation <u>or</u>		
-	• 75%	in AP Spanish	Language of	r Teacher Reco	mmendation		



Parkway West Career & Technical Center (Back to All Course List)



Chartiers Valley School District is one of the twelve school districts participating in the career and technical education at Parkway West Career and Technology Center (PWCTC). The courses offered at Parkway West CTC are not able to be offered at Chartiers Valley High School due to the specialized trade and technical course. Students are able to attend Parkway West - grades 9 through 12 for half of their school day. Students who attend Parkway West receive a Chartiers Valley School District diploma and a certificate of attendance from Parkway West. Students attending Parkway West Career and Technology Center will not be scheduled for electives at CVHS.

Students who attend PWCTC may be eligible to earn articulated college credit through the Pennsylvania Department of Education's Students Occupationally and Academically Ready Program (SOAR). The SOAR Program allows qualified high school students, enrolled in an approved career and technical Programs of Study, to receive college credit toward a diploma, certificate or degree in a similar program at a postsecondary institution. Additional information about Articulation Agreements can be found at www.parkwaywest.org.

ID	Course Name	ID	Course Name
9113: 4 Credits 9313: 3 Credits	Auto Body Repair	9173: 4 Credits 9373: 3 Credits	Health Occupations Technology
9119: 4 Credits 9319: 3 Credits	Automotive Technology	9155: 4 credits 9355: 3 credits	Cyber Security & Network Technology
9137: 4 Credits 9337: 3 Credits	Construction Technology Cluster	9185: 4 credits 9385: 3 credits	Public Safety Technology
9143: 4 Credits 9343: 3 Credits	Cosmetology	9375: 4 credits 9376: 3 credits	Sports Medicine and Rehabilitation Therapy Technology (SMARTT)
9161: 4 Credits 9361: 3 Credits	Culinary Arts	9193: 4 credits 9402: 3 credits	Veterinary Assistant Technology
9190: 4 Credits 9389: 3 Credits	Graphic Arts & Production Technology	9120: 4 credits 9320: 3 credits	Diesel Technology
9224 4 Credits 9225 3 Credits	Power Motorsports Technology		

Career & Technical Specialties:

Academic Courses Available at Parkway:

ID Course Name ID Course Name

9238	Chemical Properties in PracticeComparable to Applied Chemistry	9220	U.S. HistoryComparable to Development of the U.S.
9234	Principles of TechnologyComparable to Practical Physics	9223	World HistoryComparable to World Cultures
		9221	U.S. History IIComparable to Contemporary U.S. History

Auto Body Repair		9113 9313		4 Credits 3 Credits	Unweighted	Year
Course Description Prerequisites	The Auto Body Repair program is certified by the National Automotive Technology Education Foundation (NATEF) and provides instruction in the most current techniques for repair and replacement of damaged automobile parts. Students learn to repair collision damage and replace quarter panels, door skins, and fenders. The curriculum also includes painting, MIG welding, collision repair, frame straightening, and damage analysis. Students gain experience in mixing and tinting paint, custom painting, computerized estimating, and auto detailing. Practical experience is provided through a full-service auto body repair shop. Students have the opportunity to earn PPG Blue Level Paint and I-Car MIG Welding certifications. They are eligible to earn I-Car Points. • None					
Automotive Technolog		9119 9319		4 Credits 3 Credits	Unweighted	Year
Course Description	Automotive Technology is certified by the National Automotive Technology Education Foundation (NATEF) and affiliated with all of the major automotive manufacturers through Automotive Youth Educational Systems (AYES). Students prepare to take the Pennsylvania State Inspection License examination. Students learn basic vehicle maintenance, repair, and replacement of drive trains, brake systems, chassis components, and fuel and electrical systems. Special emphasis is placed on troubleshooting and engine performance via the use of state-of-the-art electronic diagnostic equipment. Practical experience is also provided in the auto repair shop. Under the Automotive Youth Educational Systems (AYES) apprenticeship program, students may qualify to become an apprentice working under mentor technicians. Students can earn certifications from AYES, the National Institute for Automotive Service Excellence (ASE), and the Coordinating Committee for Automotive Repair (CCAR).					
Prerequisites	 None 					
Construction Technology Cluster		9137 9337		4 Credits 3 Credits	Unweighted	Year
Course Description	Construction Systems Techn rotation, seco	Technology C ology, Welding	Cluster. The <i>Technology, a</i> lents may o	y are Building and Masonry. U choose to put	ving four courses off <i>Construction Technolo</i> Jpon successful comp rsue certification in CTC:	g <i>y, Electrical</i> letion of the

la to in bl op Co	student in the carpentry program will apply technical knowledge and skills to yout, fabricate, erect, install and repair structures and fixtures using hand and power pols, scaffolding, and specialty tools used in the construction trade. This program actudes instruction in common systems of framing, construction materials, estimating, lueprint reading and finish carpentry techniques. Students will be given the portunity to earn a 10-hour Occupational Safety and Health Administration (OSHA) onstruction Card. Students have the potential to earn 17 certifications through CCER.
TH of lig in Ut op th ac El Re ju O ha	Lectrical Systems Technology the Electrical Systems Technology program teaches students the integral components of the electrical industry for entry level employment in residential, commercial, and/or ght industrial locations. The basis of instruction is in the layout, assembly, astallation, wiring, maintenance, and trouble-shooting of electrical systems. Inderstanding programmable logistical controls (PLC's) and how transformers perate are also covered. Adherence to the National Electric Code is emphasized aroughout this course as well as trade safety procedures. This program may lead to additional career pathways such as an Electrical Drafter, Electrical Technicians, lectrical Engineers, Electrical Power-Line Installers and Repairers, Meter eaders/Utilities, Control and Valve Installers/Repairs, and Locomotive Engineers, to us name a few. Additionally, students will be given the opportunity to earn a 10-hour accupational Safety and Health Administration (OSHA) Construction Card and may ave a greater opportunity to join the International Brotherhood of Electrical Workers' mion (BAC) after graduation.
H re ac he op	VAC/R Leating, Ventilation, Air-Conditioning, and Refrigeration, which has been newly enovated with state-of-the-industry equipment, provides instruction in basic and dvanced electrical theory, troubleshooting and repair of residential and commercial eating, air-conditioning, and refrigeration systems. Students will be given the pportunity to earn a 10-hour Occupational Safety and Health Administration (OSHA) onstruction Card.
W or ar le m w w	Velding Technology Velding Technology covers several types of welding by which metal may be bent, cut, r welded together, including oxy-fuel, shielded metal arc, gas metal arc, gas tungsten rc, flux core welding, carbon arc, plasma cutting, and oxy-fuel brazing. Students will arn the importance of industry safety, measuring instruments, hand tools, grinders, netallurgy, blueprint reading, electrical principles, layout/design, and fabrication, as rell as how to prepare materials lists for cost estimates. Students have the opportunity o earn several American Welding Society (AWS) certifications.
Prerequisites	• None

Cosmetology	9143 9343		4 Credits 3 Credits	Unweighted	Year
-------------	--------------	--	------------------------	------------	------

Course Description	The Cosmetology program prepares students to perform technical services including all aspects of hair, skin/nail beautification, and personal maintenance. These skills are supported and reinforced with theoretical background including sanitation, chemistry, anatomy and physiology, as well as structure, function, and disorders of the hair, skin, nails, and scalp. This program helps students develop into well-rounded professionals, who practice real-world services in Parkway's salon, which is open to the public two days a week. Utilizing an integrated approach to teaching and learning, students learn about interpersonal relations, professional attitude, and career fundamentals along with technical knowledge and skills. Techniques and abilities are practiced and tested on mannequins, classmates, and the general public. Students who are able to attend this program for three years will have the opportunity to earn 1,250 hours of state-regulated course requirements to take the state licensing exam to be a licensed cosmetologist, which encompasses providing services to the public for hair, skin, and nails. Students who are able to take one or two years of instruction in this program may choose from the following specialized licensed fields: Nail Technician License: This license requires 200 hours of instruction and can be completed within one year. An individual holding a nail technician license is qualified to perform nail technology services only. Cosmetology Teacher License: Prerequisite for this course is having successfully passed at least one of the above licensures. This license requires 500 hours of required studies and can be completed within one year. An individual holding a teacher's license is qualified to perform the functions of a teacher in whichever specialized area the individual has obtained licensure.
Prerequisites	• None

Culinary Arts		9161 9361		4 Credits 3 Credits	Unweighted	Year
Course Description	banquet, buf provided th restaurant ar Parkway's fo design cakes students spe students will completed at the Nationa	fet, and a la rough the op ad beyond the ood store, whe , sculpt ice, a nd one schoo advance into least two yea	carte styles peration and restaurant e ere pastries and prepare d year in C Culinary And rs of Culina Association	of food prep d management environment to and select me many differe Culinary Arts cts Levels II ar ry Arts will ha	struction in the pre- paration. Practical ex- nt of an in-house, o provide goods and eats are sold. Stude ent types of cuisine. Level I. Second and ad III. Senior student ave the opportunity t certification and the	full-service services for nts learn to First-year third-year s who have o earn both
Prerequisites	None	9				

Diesel Technology		9120 9320		4 Credits 3 Credits	Unweighted	Year
Course Description	manufacturing operation, mai found in mil equipment. As technicians to will learn the Conditioning I	industries. ntenance, and itary vehicle the diesel ec repair and n fundamenta Recovery Cer utomotive Se	In Diesel d overhaul o es, trucks, quipment in naintain dies ls of hydrau tification. St prvice Excelle	Technology, of diesel power trains, buses, dustry expand sel equipment alics and have udents can ear	transportation, constr students will learn red equipment. Diesel construction and s, the demand for me will continue to gro the opportunity to n certifications from t frigeration 609, Class	about the engines are agricultural chanics and w. Students earn an Air he National
Prerequisites	None					

Graphic Arts & Production Technology		9190 9389		4 Credits 3 Credits	Unweighted	Year
Course Description	Graphic Arts & Pro individuals to apply commercial and ind digital graphic and composition, digital arts techniques. Emp graphics, digital prin Students will also lea of output and vinyl a	technical l ustrial visua printing equ printing and phasis is or ting, bindery orn large for	knowledge al image a lipment. Se l bindery a l typograp y and finisl mat digital	and skills to and print proc tudents learn as well as pho hical layout a hing technique printing with	plan, prepare, a lucts using mech desktop publish tography and ot and design using s, ink and color p application of a v	and execute hanical and ing, layout, her graphic g computer preparation.
Prerequisites	None					

Course Description Health Occupations Technology students have the opportunity to participate in a wid range of real-world clinical and job shadowing experiences at many different local healthcare providers. Clinical experiences may include: child care, long term care emergency nursing, recovery room nursing, radiology, medical records, operating room observation, pharmacy, physical/occupational therapy, and/or lab techniciar Students will have the opportunity to earn and complete the American Hear Association "CPR for Healthcare Providers" certification and the following certifications in relation to the HealthCare industry: Pennsylvania State Nurse Aid Registry (C.N.A.). For first and second year students, instruction begins with anatomy physiology, and medical terminology. Special attention is given to medical offic examinations, treatment, and patient care. Personal Care Home Direct Care Staff: Fo first and second year students, this component offers a competency test from the P/ Department of Public Welfare and it prepares students to work in a personal care hom as a direct care giver. Pharmacy Technician Certification (CPhT): After successful completion of thi one-year, 12 ^a 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 informatior preparing/dispensing prescriptions, calculations, sterile products, unit dose, and repackaging. Phlebotomy Technician Certification (CPT): This is a one semester certification cours directed towards 12 ^a grade students. Module and lab work includes: anatomy and	Health Occupations Te	echnology	9173 9373		4 Credits 3 Credits	Unweighted	Year
 one-year, 12th 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 cours 	Course Description	range of rea healthcare p emergency r room observ Students wi Association certifications Registry (C.N physiology, examinations first and sec Department	I-world clinica roviders. Clin nursing, recov ation, pharma II have the of "CPR for I in relation to N.A.). For first and medical s, treatment, a ond year stud of Public Welfa	al and job s ical experience ery room n acy, physical opportunity Healthcare the Healthcare and second terminology. nd patient c ents, this co	hadowing exp nces may incl ursing, radiol /occupational to earn and Providers'' co Care industry year students, Special atter are. Personal mponent offer	beriences at many di- ude: child care, long ogy, medical records therapy, and/or lab complete the Ame ertification and the Pennsylvania State instruction begins within is given to me Care Home Direct Cars a competency test f	fferent local g term care, s, operating o technician. rican Heart e following Nurse Aide ith anatomy, edical office re Staff: For from the PA
physiology, infection control, safety and compliance, patient preparation, collection techniques, and processing of collected sample(s). Students must demonstrate		one-year, 12 Module and classification preparing/d repackaging. Phlebotomy directed tow physiology,	a grade course lab work in s, frequently ispensing pre- Technician Ce ards 12 ^a grad	, students w cludes: contr prescribe scriptions, c rtification (C e students. rol, safety an	rill assist the p rolled substan d medicatio calculations, s CPT): This is a Module and nd compliance	pharmacist in a varie loces, laws and regula ons, prescription i terile products, unit one semester certifica lab work includes: an e, patient preparation	ty of tasks. ations, drug information, dose, and ation course natomy and n, collection
Prerequisites • None	Prerequisites	minimum of	30 successful v				

Cyber Security & Network Technology		9155 9355		4 Credits 3 Credits	Unweighted	Year
Course Description	diagnostics. networking of TIA Server + learn networ home or sma	It begins wit operating syste certifications king concepts	h Cisco IT ems. Student and then, th based on t larger more	Essentials, PG s initially preprough Cisco C ypical networe e complex ent	d in networking and C Hardware and sof pare for CompTIA A- CCNA Discovery cour ks that one might e erprise models. Final rtifications.	tware, and - and Comp se, students ncounter in

Prerequisites	• None	
---------------	--------	--

Public Safety Technology		9185 9385		4 Credits 3 Credits	Unweighted	Year
Course Description	medical serv In order to proficiency I situations/m reading, firef the opportun Emergency Emergency V	ices, firefightir successfully evels in all p anagement, ha ighting, the ju ity to earn the Medical Tech /ehicle Operato (Haz-Mat R&	eg, law enfor complete the public safety zardous mate dicial system following ce nician – Ba prs Course (cement, and ene program, y areas. Inst terials handlin n, and emerge rtifications: asic (EMT-B), EVOC), Haza	n careers relating to emergency manageme students must meet truction is provided g, pre-hospital medic ency dispatching. Stu Basic Vehicle Res rdous Materials Reco Emergency Managem	ent services. t minimum in disaster al care, map idents have cue (BVR), gnition and
Prerequisites	None	2				

Sports Medicine and Rehabilitation Therapy Technology (SMARTT	/	9375 9376		4 Credits 3 Credits	Unweighted	Year
Course Description	prepares studer sports medicin diagnosis, asse conditions. Stu evaluation, in re-education), a develop a pro- through a com students should care for healthy Careers availab and Physical T which to build with additiona Physical Thera Occupational T	nts to work e. Students ssment, pro idents will l tterventions ssessment, per diet for prehensive d be able to and special ele directly of herapy Aid a post-secon pist, Physic Therapist As	in the field will develop gnosis and learn the pri (exercise, goal setting healthy inc understandi assist in the populations but of the pri . This progradary degree adary school al Therapist ssistant, Stree	of physical the op skills in p the rehabilitation nciples of dev manual the and discharge lividuals and ing of nutritice development s. rogram could ram also prove e or advanced ing include: F t Assistant, C ength and Co	Technology (SMART herapy, occupational t revention, diagnosis, tion of injuries and of eloping a plan of care erapy, modalities a . Students will also be tailor it for special on. Upon successful and implementation include: Personal Trati- ides a solid education d certification. Caree Personal Trainer, Athle occupational Therapis onditioning Coach, Me logist, Dietitian an	therapy and differential other health e including: and neuro earn how to populations completion, of a plan of iner, Coach, nal base on rs available etic Trainer, st, Certified fedical and
Prerequisites	• None					

Veterinary Assistant Technology		9193 9402		4 Credits 3 Credits	Unweighted	Year
Course Description	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. This program may lead to additional career pathways such as Animal Trainer, Animal Breeders, Nonfarm Animal Caretakers, Laboratory Animal Caretakers, Groomers, Animal Control Worker, Veterinary Technician, Veterinary Technologist and Veterinarian. Upon accreditation, students may earn the Purina Certified Weight Coach, Pharmacy Technician, and Veterinary Assistant certifications.
Prerequisites	• None

Power Motor Sports		9224 9225		4 Credits 3 Credits	Unweighted	Year
Course Description	The growing popularity of power motorsports has created an increasing den- highly skilled technicians. PMS Technology teaches students to diagnose, and repair utility vehicles, all-terrain vehicles, including side-by-sides, mo- water crafts as well as outdoor power machines, including lawn and equipment. Students will learn the principles of engine operation, understa electricity, service and maintain fuel and carburetor systems, transmissi powertrain systems used on various types of recreational and lawn & equipment. Students may have the opportunity to earn the following certifica Emissions Certification; S/P2, OSHA 10. Other notable certifications: Equi Engine Training Council (eetc.org); PA Safety Inspector Category 1, 2, 3; Ca (Passenger cars/trucks 17,000 lbs or less/trailers 10,000 lbs or less); Category 3 (Buses/tru 17,000lbs/trailers over 10,000 lbs.					
Prerequisites	None	9				

Chartiers Valley School District

Dr. Johannah Vanatta Superintendent of Schools

Julie Franczyk Assistant Superintendent for Curriculum and Assessment

> Patrick Meyers HS Principal

Tim Murray Assistant HS Principal

Kristi Schmitt Assistant HS Principal

Board of Directors

Dr. Darren Mariano Sandy Zeleznik Jeff Choura

Robert Kearney Herb Ohliger Mitchell Montani Megan Sexton Lisa Trainor Dr. Sonja Svihla