# CHARTIERS VALLEY

SCHOOL DISTRICT Inspiring excellence.



Chartiers Valley High School



2021-2022 Program of Studies

#### **Mission Statement**

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

#### **Vision Statement**

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

#### **Core Values**

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

School Colors: Red & Blue

Motto: Character, Virtue, Honor and Scholarship

> Mascot: Colt

#### <u>Alma 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)



## Table of Contents



#### \*Click on the section title to go to that section

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

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

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

(Go to Course Lists)



## General Program Information



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

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

<sup>\*\*</sup>Computer Science courses, with the exception of Cybercrime & Digital Forensics and Game Design Triad, may count as a math or science credit.

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

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

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

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

#### **Community Service Credit**

- 1. Students may earn one (1) Community Service Elective credit by completing 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.

Graduation Credit Planner (2021, 2022)

		redit i familiei (2		
Course/Credits Required	9th	$10^{ m th}$	11 <sup>th</sup>	12 <sup>th</sup>
English (4)				
<i>Math</i> (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 (9)				
Advisory (1)				
(.25 per year 9-12)				
Total Required (28)				

Graduation Credit Planner (2023 and beyond)

Course/Credits Required	9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
English (4)				
Math (3)				
Social Studies (3)				
Science (3)				
Health (1) (.5 - 9 <sup>th</sup> .5 - 10 <sup>th</sup> )				
Physical Education (1) (.25 per year 9-12)				
Arts & Humanities (3)				
Electives (7)				
Advisory (1) (.25 per year 9-12)				_
Total Required (26)				

#### 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) was removed.

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

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

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

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

(Go to Course Lists)

### <u>Daily Schedules</u> (Back to Menu) (Go to Course Lists)

#### Daily Schedule

Bully Belledule				
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

representery semeatic			
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

	•
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
-	



## **Student Services**



### School Counseling Department

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

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

Mrs. Lesley Kunkel, Counselor last names A - F	412.429.2268	<u>lkunkel@cvsd.net</u>
Mrs. Leah O'Malley, Counselor last names G - N	412.429.2629	lomalley@cvsd.net
Mrs. Danyelle Boyd, Counselor last names O - Z	412.429.2271	dboyd@cvsd.net
Ms. Melissa Demchak, Social Worker	412.429.7036	mdemchak@cvsd.net
Ms. Molly Clokey, Attendance Secretary	412.429.2270	mclokey@cvsd.net
Ms. Sherri Gillim, Secretary	412.429-2622	sgillim@cvsd.net

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

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

#### How to Request Courses

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

Students may submit changes to their requests, using the Request Change form, until April 8, 2021.

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)

#### Scheduling Considerations (Back to Menu) (Go to Course Lists)

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

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

#### **Schedule Change Requests**

Changes may be granted if...

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

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

#### Withdrawal from a Course

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

#### Course Waivers

A course waiver can be requested by a parent/student who does not qualify and is not recommended for a course. The deadline to request a waiver is April 8, 2021. A meeting with a building principal to review the student's academic history will be required prior to the waiver being approved and applied to the student's schedule.

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

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

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

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

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

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

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

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

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

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

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

#### <u>Advisory Program (Back to Menu) (Go to Course Lists)</u>

High school students are assigned to a small group "Advisory" led by a teacher. Advisory groups meet once per month using an alternative bell schedule; student participation and attendance is expected. Advisory lessons cover a variety of topics including career exploration, post-secondary planning, and financial literacy.

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

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

Website & Student Login Credentials: https://student.naviance.com/chartiersvhs 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 final grade levels.

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

#### Quarterly Grades

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

#### Grade calculations without a mid-term exam:

- *Semester 1*: 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 mid-term exam:

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

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

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

<sup>\*</sup>Advanced and Standard Courses are on the Standard Quality Point Scale

#### Advanced Placement (AP) Courses

5.5 Weighted Scale

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

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

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

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

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

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

- Communications/Rhetoric (*University of Pittsburgh*)
- Computer Assisted Design 1 & 2 (CCAC)
- French 4 (Duquesne University)
- German 4 (Duquesne University)
- Principles of Accounting (Carlow University)
- Shaping of the Modern World (Duquesne University
- CiHS Advanced Video Broadcasting (Point Park)

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

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

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

Honors Courses 5.0 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

#### **Online Tools**

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

Click here: Infinite Campus Parent Login

Or use: Infinite Campus Mobile App -- District ID: YQPKSC

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

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

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

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

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

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

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

#### 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.

#### Absence from Class (Board Policy #213)

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

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

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

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

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

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

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

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



## **Engineering Academy**



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

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

#### Year One

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

#### Required Engineering Classes

•	Introduction to Engineering Design (IED)	Full Year	PLTW
•	Metals and More	Full Year	

#### Year Two

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

#### Required Engineering Classes

•	Robotics 2	Full Year	
•	Principles of Engineering (POE)	Full Year	PLTW
•	Mass Production	Full Year	

#### Year Three

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

#### Required Engineering Classes

Engineering Design and Development	Full Year	PLTW
<ul> <li>Product Factory</li> </ul>	Full Year	
Engineering Elective		

#### Engineering Electives

•	Civil Engineering and Architecture (CEA)	Full Year	PLTW
•	Digital Electronic (DE)	Full Year	PLTW
•	Computer Assisted Design and Drafting (CADD) 1	Full Year	
•	Computer Assisted Design and Drafting (CADD) 2	Full Year	
•	Materials/Construction Systems	Full Year	
•	Maker Lab	Full Year	
•	Transportation	Full Year	
•	Robotics	Full Year	

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

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

#### **Career Interests**

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

#### **Engineering Certificate**

- Maker Lab
- Materials/Construction
- Modern Infrastructure
- Metals and More
- Robotics

- Intro to Engineering Design (IED)
- Principles of Engineering (POE)
- Computer Integrated Manufacturing (CIM)
- Civil Engineering & Architecture (CEA)

#### Machine and Fabrication Technology Certificate

Materials

- Applied Engineering
- Maker Lab
- Product Factory
- Mass Production

#### Architectural Design and Modeling Certificate

• Maker Lab

- CADD2
- Materials/Construction
- IED

• CADD 1

• CEA

#### Mechanical Design and Modeling Certificate

- Maker Lab
- Materials/Construction
- CADD 1
- CADD 2
- IED



## Courses of Study



(Back to Menu)

	<u>Applied</u>	Engir	eering & Technolo	gy (A	<u>vet)</u>
6811	Engineering 1	6601	Manufacturing Tech 1	6503	MMT 3A
	Intro to Engineering Design		Materials & Construction		Advanced Graphic Design
					& Photography
6801	Engineering 2	6602	Manufacturing Tech 2A	6509	CiHS Advanced Video
	Principles of Engineering		Mass Production		Broadcasting
6611	Engineering 3	6302	Manufacturing Tech 2B	6800	MakerLab@AET
	Computer Integrated		Metals & More		
	Manufacturing				
6815	Engineering 4	6605	Manufacturing Tech 3	6823	CiHS Computer Assisted
	Engineering Design &		Product Factory		Design 1 (CAD1)
	Development				
6825	Environmental	6501	MMT 1	6824	CiHS Computer Assisted
	Sustainability		VisCom & Video Basics		Design 2 (CAD2)
6802	Civil Engineering &	6502	MMT 2A	6301	Transportation Systems
	Architecture		Graphic Design &		F
			Photography S		
6612	Digital Electronics	6826	Applied Environmental	6813	Robotics
			Sustainability		
			Art		
7107	Exploratory Art (9-11)	7106	Drawing	7401	Senior Studio Art
7011	Exploratory Art (9-11)  Exploratory Art (12)	7108	Drawing 2	7445	Honors Studio Art
7103	Animation	7112	Drawing 3	7443	AP Studio Art
7103	Ceramics	7113	Painting	7480	Advanced Digital Art &
7101	Cerumes	7107		7400	Design
7116*	Ceramics 2	7114*	Painting 2	7455	Honors Digital Art
7117*	Ceramics 3	7115*	Painting 3	7450	AP Digital Art
7105	Crafts & Mixed Media	7109	Printmaking	7482	GD3: Video Game Art
7476	Digital Art & Design	7110	Sculpture		
			Business		
6010	Introduction to	6070	Business Law	6009	Succeeding in the World of
5010	Accounting	0070	- 334.655 24	0000	Work
6055	Accounting 1B	6060	Design, Multimedia, &	6080*	Sports and Entertainment
			Web Technologies		Marketing
6005	Financial Accounting	6015	CiHS Principles of		
			Accounting		
6051	Foundations of Personal	6065	Marketing Dynamics		
	Finance				
6050	Introduction to Business	6088	GD3: Advanced Game		
	Concepts		Marketing & School Store		
	C	Carre	aunita I aggriga O		tion .
	<u>Career &amp; </u>	Comr	nunity Learning Oppo	ortuni	ties .

Work Experience

6090

Peer Learning Assistant

6092

Computer Science						
6062	AP Computer Science	2653	CiHS C++	2612	Introduction to Computer	
	Principles				Programming	
2635	AP Computer Science A	6021	Cybercrime and Digital	2614	Computer Programming	
	_		Forensics		Applications	
2613	GD3: Game Development	2650	Introduction to C#			

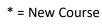
	<u>English</u>							
1111	English 9/Composition 1	1350	AP Language & Composition	1365	AP Research			
1131	English 9 Advanced/ Composition 1	1422	World Literature 12/Composition 4	1509	Media Writing and Public Relations			
1132	Honors English 9/Composition 1	1426*	Advanced World Literature 12: Voices in World Lit & College Writing	1503	SAT Prep			
1211	English 10/ Composition 2	1355	AP Literature & Composition	1506	Public Speaking			
1231	English 10 Advanced/ Composition 2	1502	CiHS Communications/ Rhetoric	1507	Creative Writing			
1232	Honors English 10/ Composition 2	1532	Journalism/Yearbook	1508	Shakespeare and the Origins of the Modern Hero			
1322	American Literature Composition 3/11	1542	Yearbook Production	1504	CiHS Introduction to Film			
1325	Advanced Language & Composition/11	1360	AP Seminar	1510*	Introduction to Screenplay Writing			

	Family & Consumer Science					
8511	Introduction to the World	8501	Child Development and	8506	Early Childhood Practicum 2	
	of Food and Nutrition 1		Family Relations		-	
8512	Ethnic and Regional	8505	Early Childhood Practicum	8508	Primary School Practicum	
	Cuisine and Nutrition 2		1		-	
8513*	Culinary Arts & Food	8520*	Introduction to Interior			
	Science		Design			

	<u>Mathematics</u>							
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	2430	AP Calculus BC			
			Geometry					
2131	Cognitive Algebra 2	2145	Algebra 3	2515	AP Statistics			
2132	Algebra 2	2313	Trigonometry/Analysis	2516*	Analytics & Statistics in Sports			
2143	Honors Algebra 2	2403	Honors Pre-Calculus					

	Performing Arts							
7501	Cadenza Chorus	8041	Modern & Jazz Dance 1	8100	Intro to Theatre Arts			
7505	Select Chorus	8042	Modern & Jazz Dance 2	8101	Design for the Theatre			
7511	Band	8043	Modern & Jazz Dance 3	8201	Acting 1			
7521	Orchestra	8044	Modern & Jazz Dance 4	8202	Acting 2 & 3			
7531	Jazz Ensemble	8055	Modern & Jazz Dance 5					
8040	Introduction to Dance	8051	Majorettes – Drill Team –					
			Dance Troupe - Dance					
			Production					

		<u>Pl</u>	nysical Education		
8032	Physical Education (4 days)	8034	Lifetime Activities (2 days)	8038	Partners in Physical Education (2 Days)
8025	Health (4 days)	8027	Drivers Theory (5 days)		Dance (See Performing Arts)
8033	Adventure Activities (2 days)	8036	Sports Officiating and Principles of Coaching		
			Science		
3221	Biology Lab	3341	AP Chemistry	3455	AP Physics C: Electricity
3221	blology Lab	3341	Ai Clemstry	3433	and Magnetism
3133	Honors Biology	3350	Anatomy & Physiology	3442	AP Biology
3222	Biological Applications	3421	Practical Physics	3355	Principles of Biomedical Science (PBS)
3321	Applied Chemistry	3441	AP Physics 1	3360	Human Body Systems (HBS)
3331	Chemistry w/ Lab	3445	AP Physics 2	3365	Medical Interventions
3340	CiHS Chemistry	3450	AP Physics C: Mechanics	3370	Biomedical Innovation
			Social Studies		
4000	Development of the 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		
		V	Vorld 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		
	<u>Parkw</u>	ay We	st Career & Technical	Cente	<u>er</u>
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	Cosmetology	9155	Cyber Security &	9234	Principles of Technology
9343	Cl. i. I.D	9355	Networking Technology	0004	H.C. IV.
9238	Chemical Properties in Practice	9220	US History	9221	U.S. History II
9120	Diesel Technology	9223	World History		



9320





## Applied Engineering & Technology (AET)



(Back to All Course List)

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

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

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

Engineering @AET

<b>Engineering 1</b>		6811	PLTW	1 Credit	5.0 Weight	Year
*Intro to Engineering Design			CiHS			
Course Description	engineering s to design sol	standards to ha	inds-on proje iety of prob	ects. They wor lems using 3-I	ess, applying math, s k both individually a ) modeling software,	nd in teams
Prerequisites		pleted Algebra les 9, 10, 11, 12	1 or Teache	r Recommenda	ation	

<b>Engineering 2</b>		6801	PLTW	1 Credit	5.0 Weight	Year	
*Principles of Engineering			CiHS				
Course Description	Through pro	blems that er	ngage and c	hallenge, stud	dents explore a broa	d range of	
-	engineering t	engineering topics, including mechanisms, the strength of structures and materials, and					
	automation. Students develop skills in problem solving, research, and design while					esign while	
	learning strat	learning strategies for design process documentation, collaboration, and presentation.					
Prerequisites	Algebra 2 with a 70% or higher.						
•	Oper	n to grades 10,	11, & 12				

Engineering 3		6611	PLTW	1 Credit	5.0 Weight	Year	
*Computer Integrated		CiHS					
Course Description	Manufactured items are part of everyday life, yet most students have not been						
-	introduced to the h	igh-tech, i	innovative	nature of mo	dern manufacturing.	This course	
	illuminates the opportunities related to understanding manufacturing. At the same time,						
	it teaches students	about m	nanufactur	ing processes	, product design, ro	botics, and	
	automation. Studer	nts can ea	arn a virt	ual manufact	uring badge recogni	zed by the	
	National Manufacturing Badge system.						
Prerequisites	Completion of Intro to Engineering Design						
-	<ul> <li>Teacher rec</li> </ul>	ommenda	tion				

<b>Engineering 4</b>	Engineering 4		PLTW	1 Credit	5.0 Weight	Year	
*Engineering Design &		CiHS					
Course Description	The knowledge ar	nd skills s	students acc	quire throug	ghout PLTW Engine	ering come	
_	together in Enginee	ering Desi	gn and Deve	elopment as	they identify an issu	ue and then	
	research, design, and test a solution, ultimately presenting their solution to a panel of						
	engineers. Students	apply the	e professiona	al skills they	have developed to	document a	
	design process to st	andards, c	ompleting E	ngineering I	Design and Developm	ent ready to	
	take on any post-secondary program or career.						
Prerequisites	Completion of IED & POE						
2	<ul> <li>Concurrent</li> </ul>	enrollmer	nt in college	preparatory	mathematics.		

<b>Environmental Sustainability</b>		6825	PLTW	1 Credit	5.0 Weight	Year
· ·			CiHS			
Course Description	to real-world renewable	challenges rela energy. Apply	nted to clean ing their k	and abundant anowledge th	and design solutions drinking water, food rough hands-on act l solutions to these	supply, and ivities and
Prerequisites		ents will have on to grades 10, :		iology with a	70% or higher.	

Civil Engineering & Architecture		6802	PLTW	1 Credit	5.0 Weight	Year
		CiHS				
Course Description	apply math, so	cience, and sta	andard engii	neering practio	e design and develop es to design both resi -D architectural desig	idential and
Prerequisites	1	to grades 10, 1 er Recommen				

<b>Digital Electronics</b>		6612	PLTW	1 Credit	5.0 Weight	Year
			CiHS			
Course Description					l around us. This cour	
-					trical engineering, ele	
					ional and sequential lo	
	exposed to ci	rcuit design too	ols used in in	dustry, includi	ng logic gates, integra	ted circuits,
	and program	mable logic de	vices.			
Prerequisites	• Com	pletion of Princ	ciples of Eng	gineering		
_	• Open to grades 11, & 12					
	• Teac	her recommend	dation			

### Manufacture@AET

Manufacturing Tech 1		6601		1 Credit	NonWeighted	Year	
*Materials & Construc	tion						
Course Description	This year long course students to the proper students in the areas calculations of materia shop safety, proper had This course provides swill gain practical knowlifelong skills in fabric assigned projects, as with teacher guidance	use of tools of reading als, and prond and power tudents wis wiedge need attion and ovell as creation and close s	s in the labor project dra ject proced ver tool usa th an in-de- ded to work construction te, design a upervision.	oratory. This wings, know ures. A majo ge.  pth introduck on their own. Students and build pe	s course is designed wledge of material or emphasis will b ction to the shop a on projects or conti- will construct varies	d to instruct ls and uses, e placed on and students nue on with ous teacher their choice	
	structure of the resid industry offers. Stude used for various ty	provides students with a broad analysis of the organization and residential construction industry and the many career choices the Students will study the current construction methods and materials is types of residential structures. This course introduces site eparation, job layout, materials and methods for construction.					
Prerequisites	<ul><li>None</li><li>Grades 9, 10, 1</li></ul>	1 & 12					

Manufacturing Tech 2	A	6602		1 Credit	NonWeighted	Year		
*Mass Production								
Course Description	produced proto process variation process variation plasma cutte will be utilized production seems.	ojects in the lab rious materials rs, laser engra ed by the stude	Students was. The use overs and the ents. Studer each studen	ill learn the saf of automated ( e associated so nts may be ask nt completes (	the development of a concept of the operation of tools are CNC technology, such of the operation of the oper	nd machines n as routers, l and metal, ts in a mass		
Prerequisites	Successful completion of Manufacturing Tech 1							
	Teacher Recommendation							
	<ul><li>Grad</li></ul>	les 10, 11, 12 on	ıly					

Manufacturing Tech 2B		6302		1 Credit	NonWeighted	Year	
*Metals and More							
Course Description	Metals and More is a course focused on the techniques of metal design and fabric Coursework will be based upon current trends in the industrial world with a focument MIG Welding and CNC Plasma cutting. Successful students will be able to work the a problem, design a solution, and build the answer. Students will be exposed to different industrial technologies such as cutting, welding, bending, threading, she and soldering all with a strong emphasis on industrial safety. Students will also about and integrate current technologies into their projects, such as CNC, 3D Pri CAD, CNC Laser and more. Students may be asked to work alone or in teams to quality products to be displayed with pride knowing it was created with their hands.						
Prerequisites	Successful completion of Manufacturing Tech 1						
	• Grades 10, 11 & 12 only						
	• Teac	her recommend	dation				

<b>Manufacturing Tech 3</b>		6605		1 Credit	NonWeighted	Year		
*Product Factory								
Course Description	The product factory course is intended to be the culmination of all other preparatory courses in the AET department. This course will educate a new generation of innovators by integrating creativity, research, design, prototyping, and manufacturing. Students will use the design process to determine shortcomings in existing products, improve upon them, and present their designs in the first portion of the year. Students will develop their own product after successfully demonstrating proficiency with all machines and processes. This course demands students to apply skills, techniques, and technological abilities learned in previous courses to design and develop a product in groups as well as individually. Students will have access to 3d modeling, laser engraving/cutting, CNC plasma cutting, CNC routering, that are available in the AET							
Prerequisites	Makerlab@AET or CADD 1							
	<ul> <li>Manufacturing Tech 1</li> <li>Manufacturing Tech 2A or Manufacturing Tech 2B</li> </ul>							
	• Man	utacturing Te	ech 2A or M	lanutacturing	g Tech 2B			

#### MultiMedia Tech@AET

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

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

MMT 3A		6503		1 Credit	NonWeighted	Year
*Advanced Graphic Do						
Course Description	This year-long course is ar This course expects a high I Projects are challenging a include multi-colored vin- manipulation and 3D Print in Adobe Illustrator, Pho designer, artist, and create graphic design, photograp Credit.	evel of cre and requir yl decals ing. Each toshop an or. This co	ativity a e more and t-sh student id Light ourse is	nd a willingr time and th nirts, glass e will continue room. This a must if yo	ness to "think outsi nought to complet etching, photograp to learn advanced is the perfect cou ou are considering	de the box".  e. Projects  ohy, image  I techniques  arse for the  a career in
Prerequisites	<ul> <li>Teacher Recommendation</li> <li>75% or better in Graphic Design and Photography</li> </ul>					

CiHS Advanced Video	Broadcasting	6509		1 Credit	5.0 Weight	Year	
Course Description	Students will act as a producer for a television show. Students will learn all operations						
	of film production, and act in many rolls throughout the course. Students will operate a program play out server, and a graphic generator for the message board. Students will						
	need leadership skills to effectively produce high level television shows to air on						
	Comcast and Verizon local	broadcast	t.				
Prerequisites	Teacher Recommendation						
	• 75% or better in In	troductior	to VisC	om and Vide	eo Basics		

### Make and Model@AET

MakerLab@AET		6800		1 Credit	NonWeighted	Year	
Course Description	Makerspaces are creative, DIY spaces where people can gather, to create, invent, and						
*	learn. Students will be	able to use	3D printer	s, software,	electronics, craft su	applies, and	
	tools to develop their	designs and	l bring then	n to life. Di	awings that previo	ously ended	
	on paper will transform into 3D products. Students will learn the process of solving a						
	technological problem	, model a so	olution, and	develop a v	vorking prototype.		
	This introductory level	l course is a	ppropriate	for 9-12 grad	de students who ar	e interested	
	in design and enginee	ring. Stud	ents will ha	ave the opp	ortunity to develo	p skills and	
	understanding of cour	rse concept	s through a	ctivity, proj	ect, as well as pro	blem-based	
	learning, used in con	nbination w	vith a team	ning approa	ch. This course a	assumes no	
	previous knowledge or prerequisite.						
Prerequisites	• None						
•	<ul> <li>Open to grade</li> </ul>	s 9, 10, 11, 8	<b>≩</b> 12				

<b>CIHS Computer Assiste</b>	d Drawing 1 (CAD1)	6821	CiHS	1 Credit	5.0 Weight	Year	
Course Description	A full-year course offered to students in grades 9-12. This course teaches students how					udents how	
-	to use the computer as a drafting tool to meet today's demand for computer literate						
	draftsmen and engineers. Students will implement industry standard Autodesk						
	applications. Students will create scaled 3d models of some of their designs using						
	various materials to sim	nulate a wo	orking arch	itectural mod	del.		
Prerequisites	<ul> <li>Open to grades</li> </ul>	9, 10, 11,	& 12				
-	Teacher Recommendation	Teacher Recommendation					

CiHS Computer Assisted	d Drawing 2 (CAD2)	6824	CiHS	1 Credit	5.0 Weight	Year		
Course Description	This course is designed to provide students with an opportunity to pursue skills and							
	applications in Compute	er Aided D	Prafting and	l Architectur	al Design Technolo	ogies. Areas		
	of study will include, but are not limited to: geometric construction, orthographic							
	projection, advanced practices in dimensioning, sectioning, auxiliary view systems,							
	pictorial systems, architectural drawings, and computer aided drafting. This will result							
	in the development of s	kills for a	career in ar	chitectural p	lanning, design, ar	nd drawing.		
	Students will also be give	en the opp	portunity to	receive a ce	rtificate of proficie	ncy through		
	Autodesk.							
Prerequisites	<ul> <li>75% or better in</li> </ul>	CAD 1						
_	Teacher Recommendation	mendatior	າ					

Transportation Systems		6301		1 Credit	NonWeighted	Year	
Course Description	This course will focus on providing an in depth look into the vast and const changing world of transportation. From the vehicles themselves, to the Infrastru they rely on. Students will be given a chance to explore, build and test vehicles various modes of transportation. Students will be using various hand tools, elected components, and propulsion devices to build vehicles that will be performance to the will also spend time learning about the systems we rely on to move people and go on a daily basis in the U.S.						
Prerequisites	<ul> <li>None</li> </ul>						

Robotics		6813		1 Credit	NonWeighted	Year
Course Description	This year long course programming of robot many types and operator of robots in manufact throughout the course robotic competitions. If the extra-curricular act robot for competition	tic systems tional capal turing. Te . Students This course	Students bilities of rocamwork as will also haprovides a	will acquire bots, as well nd problem ave the opposere at foundary	a basic understand as the programmi solving will be operation prtunity to competention for students in	iding of the ing, and use emphasized in various interested in
Prerequisites	<ul> <li>Open to grade</li> </ul>	s 9, 10, 11,	& 12			

#### AG@AET

Applied Environmental	Sustainability	6826		1 Credit	NonWe	ighted	Year	r
Course Description	This year-long pr	oject-based	d course	focuses	on the	develo	pment	of
	environmentally sustainable systems and their integration into our lives,							
	schools, and comm	unities. T	he guidin	ig principl	les in thi	is cours	se are	the
	designing, building	, and testi	ing of va	rious syste	ems that	could	potentia	ally
	resolve real-world	problems	while e	expanding	upon C	Global	Standar	ds.
	Specifically, the goal	of the cou	rse is to a	fford stude	ents the o	pportun	ity to g	ain
	hands-on experience	e in the ar	eas of env	vironmenta	l sustaina	ability fo	or a bet	tter
	tomorrow, safe a	nd abund	lant wat	er, food	security	and	renewa	ble
	energy. Students v	vill use co	ontent an	d concepts	s from th	ne Envi	ronmer	ntal
	Sustainability course	e to design	and crea	te systems	that rein	force th	e conce	pts
	previously learned.	A review	of the re	levant mat	terial will	help a	ll stude	ents
	succeed, thus, any st	udent in gr	ades 9-12	will be able	to partici	pate in	the cour	rse.
Prerequisites	<ul> <li>Open to grade</li> </ul>	s 9, 10, 11, 8	<b>½</b> 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	7450	AP Digital Art
7105	Crafts & Mixed Media	7115*	Painting 3	7460	AP Studio Art
7481					ee yearlong courses that work world game design experience.
					ny" to produce, design, animate,
	playtest and market their ga	me to the	student body. Throughout th	ne proce	ess, students will be responsible
	for meeting checkpoints and	deadline	s; they will be evaluated on th	e succe	ss of their final game launch.
	a. Video Game Art (A	rt Depart	ment Offering)		
	b. Game Development	(Comput	er Science Department Offerir	ıg)	
	c. Advanced Game Ma	arketing (l	Business Department Offering	)	

<sup>\* =</sup> New Course



Exploratory Art (9-11)	7107		.5 Credit	NonWeighted	Semester			
Course Description	Exploratory Art 9th	Exploratory Art 9th - 11th grade is an introductory studio art course that will introduce						
_	and analyze the pri	inciples and ele	ments of art, whic	h will be used to effect	ively complete			
	projects throughou	at the semester	. Students will be	e introduced to a vari	iety of fine art			
	mediums such as	drawing, pai	nting, printmaki	ng, graphic design a	nd sculpture.			
	Exploratory Art 9tl	h - 11th grade w	vill meet the devel	opmental and cognitiv	ve needs of the			
	students at their re	spective grade	level.					
Prerequisites	• None	_						

<b>Exploratory Art (12)</b>	7011		.5 Credit	NonWeighted	Semester
Course Description	principles and elesemester. Students painting, printmal on real world appl	ements of art s will be introdu king, graphic de ication of artisti	in relation to puced to a variety of the second to a variety of the second to practices. The second to practices.	dio art course that worojects completed the of fine art mediums suggested. This course will found to the word will develop skinner. Contemporary	roughout the ch as drawing, ocus primarily ills that would
Prerequisites	process. Explorate of the students at t	ory Art 12th gra	ade will meet the	tudent understanding developmental and co	
Prerequisites	<ul> <li>None</li> </ul>				

Animation	7103		.5 Credit	NonWeighted	Semester				
Course Description	Animation is an i	Animation is an introductory design course in which students express their visual							
•	creativity through	drawing, stor	ytelling, and oth	ner visual mediums.	Students will				
	explore the interna	ational history a	and evolution of a	animation through cha	aracter design,				
	the natural flow an	d movement of	objects, backgrou	ınd development, ligh	ting, and stage				
	design. Multiple	traditional and	digital animation	on processes will be	explored and				
	investigated throu	ighout the cou	ırse. Students w	ill be able to identif	fy and utilize				
	animation termino	ology, tools, con	cepts, and proces	ses.					
Prerequisites	<ul> <li>None</li> </ul>								
_	<ul> <li>Teacher re</li> </ul>	ecommendatio	n						

Ceramics	7104		.5 Credit	NonWeighted	Semester
Course Description	thrown methods of glazing techniques use the slab construprojects. Students	of construction of decoration me uction, coil buil- will be able to echniques. Add	. This course wi ethods and firing t, pinch pot and h utilize, identify a litionally, student	ting of both hand bu ll include the examir procedures. Students and thrown technique and name ceramic tool is will become familian implementation.	nation of clay, will learn and s to create clay s, clay bodies,
Prerequisites	• None				

Ceramics 2	7116		.5 Credit	NonWeighted	Semester
Course Description	construction. This decoration method	s course will in Is and firing pr	nclude the exami ocedures. Studer	and wheel thrown ination of clay, glazin its will continue work techniques learned in	ng techniques, ing with slab
Prerequisites	Student m	and 12 <sup>th</sup> Grade nust receive 90% ecommendation	or better in Cera	mics 1	

Ceramics 3	7117		.5 Credit	NonWeighted	Semester		
Course Description	methods of construtechniques, decora	amics 3: An advanced studio class consisting of both hand built and wheel thrown thods of construction. This course will include the examination of clay, glazing uniques, decoration methods and firing procedures. Students will advance their amics skills using slab construction, coil built and hand thrown techniques to create a projects.					
Prerequisites	Student m	and 12 <sup>th</sup> Grade tust receive 90% ecommendation	or better in Cera	mics 2			

Crafts & Mixed Media	7105		.5 Credit	NonWeighted	Semester
Course Description	Crafts & Mixed M interested in the (drawing/painting creating works of a mediums such as studio techniques decoupage, charte craft, bookbinding	creative proc g). Students will art. Students will paint, clay, fab Examples of t d designs, bas g, and stamping.	ductory studio co cess, but not ir learn about the a ll get to experience oric, metal, wood, the skills that ma ketry, weaving, o Real-world appl	purse intended for stu- naterested in the fine rt and craft of various e working with a varie and yarn, while lear ay be developed including, crock puilting, knitting, crock ications will be explorations will sites su	dents who are e art aspects cultures while ety of different ming multiple ude macramé, cheting, paper ed such as the
	Pinterest.	PFF			
Prerequisites	• None				

Digital Art & Design		7476		.5 Credit	NonWeighted	Semester
Course Description					es and processes are	
					aking processes will	
					al and cutting edge t	
					k. Twenty-first cent	
					o address a diversity	
					nage manipulation, c	
Duono avioitos			, image tran	sier, and tradi	tional/digital art hyb	rius.
Prerequisites	• None	e				
Drawing		7106		.5 Credit	NonWeighted	Semester
Course Description	Drawing is	an introductor	y studio co	ourse that wil	l focus on the deve	elopment of
•	observational	l skills and dra	wing techni	ques. Projects	will include the expl	oration of a
					Students will use pen	
					ational still life and	
					matter. Traditional	
		0,5			g emphasis on expe	riences with
		ples and a vari	ety of drawi	ng techniques.		
Prerequisites	• None	e				
Drawing 2		7112		.5 Credit	NonWeighted	Semester
Course Description	A Semester	long course	used to		develop drawing	
					laced on exploring s	
<u></u>					nal, portraiture, lan	
NEW	abstraction.	Graphite, colo	red pencils,	charcoal and	pastels will be used	d in a more
<b>~~</b>	concentrated	area of study	for each me	edium based o	n knowledge from t	he previous
	drawing cour	rse.				
Prerequisites	• None	e				
Drawing 3		7113		.5 Credit	NonWeighted	Semester
Drawing 3 Course Description	A semester lo		will enable	.5 Credit the student to	NonWeighted develop and hone h	
Drawing 3 Course Description		ong course that		the student to	develop and hone h	is/her skills
	in their are	ong course that a of interest	in regards	the student to to drawing		is/her skills matter and
	in their are style. Empha	ong course that a of interest	in regards ced on creat	the student to to drawing ing a cohesive	develop and hone h medium, subject	is/her skills matter and
	in their are style. Empha	ong course that a of interest asis will be pla ent explaining r	in regards ced on creat	the student to to drawing ing a cohesive	develop and hone h medium, subject	is/her skills matter and
Course Description  Prerequisites	in their are style. Empha artist stateme	ong course that a of interest asis will be pla ent explaining r e	in regards ced on creat	the student to to drawing ing a cohesive vork.	develop and hone h medium, subject and coherent body o	is/her skills matter and of work and
Course Description Prerequisites Painting	in their are style. Empha artist stateme • None	ong course that a of interest asis will be pla ent explaining r e	in regards ced on creat ational for v	the student to to drawing ing a cohesive vork.	develop and hone h medium, subject and coherent body of NonWeighted	is/her skills matter and of work and Semester
Course Description  Prerequisites	in their are style. Empha artist stateme  • None  Painting is as	ong course that a of interest asis will be pla ent explaining r e  7108 n introductory	in regards ced on creat ational for v	the student to to drawing ing a cohesive vork.  .5 Credit rse that will e	develop and hone he medium, subject and coherent body of the NonWeighted explore the transpare	is/her skills matter and of work and  Semester nt media of
Course Description Prerequisites Painting	in their are style. Empha artist stateme  • None  Painting is at watercolor particular are style.	ong course that a of interest asis will be pla ent explaining r e  7108 n introductory ainting, opaqu	in regards ced on creat ational for v  studio cour e acrylic pai	the student to to drawing ing a cohesive work.  .5 Credit rese that will enting and oth	develop and hone he medium, subject and coherent body of the NonWeighted applore the transpare for paint media. Specific develop and hone he media.	Semester nt media of
Course Description Prerequisites Painting	in their are style. Empha artist stateme  • None  Painting is a watercolor payill address in their are style. The style is a style in the style in t	ong course that a of interest asis will be pla ent explaining r e  7108 n introductory ainting, opaqu matters in the	in regards ced on creat ational for v  studio cour e acrylic pai areas of still	the student to to drawing ing a cohesive work.  .5 Credit rese that will enting and othelife, portrait, left.	NonWeighted  xplore the transpare er paint media. Speciandscape, and abstra	Semester nt media of cific projects act painting.
Course Description Prerequisites Painting	in their are style. Empha artist stateme  • None  Painting is as watercolor painting address students will	ong course that a of interest asis will be pla ent explaining r e  7108 In introductory ainting, opaque matters in the 1 also explore	in regards ced on creat ational for vestudio course acrylic paid areas of still the concest.	the student to to drawing ing a cohesive work.  .5 Credit rese that will enting and othelife, portrait, lepts of color,	develop and hone he medium, subject and coherent body of the NonWeighted applore the transpare for paint media. Specific develop and hone he media.	Semester nt media of sific projects act painting.
Course Description Prerequisites Painting	Painting is a watercolor pawill address students will throughout to	ong course that a of interest asis will be pla ent explaining r e  7108 n introductory ainting, opaqu matters in the l also explore the painting pr	studio coure acrylic parareas of stille the conceptocess. Stude	the student to to drawing ing a cohesive work.  .5 Credit rese that will enting and othelife, portrait, posts of color, ents will be also to the the students will be also to the students.	NonWeighted  xplore the transpare er paint media. Speciandscape, and abstralight, texture and of	Semester nt media of cific projects act painting. composition y and name
Course Description Prerequisites Painting	Painting is a watercolor painting tools throughout the painting tools.	ong course that a of interest asis will be pla ent explaining r e  7108 In introductory ainting, opaqu matters in the l also explore the painting pr s, materials, an	studio coure acrylic paiareas of stille the concest of painting to	the student to to drawing ing a cohesive work.  .5 Credit rese that will enting and othelife, portrait, pts of color, ents will be abechniques. A metallic content of the color, and the cohesive content of the cohesive c	NonWeighted  xplore the transpare er paint media. Speciandscape, and abstralight, texture and ole to utilize, identify	Semester nt media of cific projects act painting. composition y and name
Course Description Prerequisites Painting	Painting is a watercolor painting tools throughout the painting tools.	ong course that a of interest asis will be pla ent explaining r e  7108  In introductory ainting, opaqu matters in the l also explore the painting pr s, materials, an echniques and	studio coure acrylic paiareas of stille the concest of painting to	the student to to drawing ing a cohesive work.  .5 Credit rese that will enting and othelife, portrait, pts of color, ents will be abechniques. A metallic contract to the color, enter the color	NonWeighted  xplore the transpare er paint media. Speciandscape, and abstralight, texture and oble to utilize, identifyajor emphasis is on e	Semester nt media of cific projects act painting. composition y and name
Course Description  Prerequisites  Painting  Course Description  Prerequisites	Painting is a watercolor painting tools a variety of te	ong course that a of interest asis will be pla ent explaining r e  7108 n introductory ainting, opaqu matters in the l also explore the painting pr s, materials, an echniques and de	studio coure acrylic paiareas of stille the concest of painting to	the student to to drawing ing a cohesive work.  .5 Credit rese that will enting and othelife, portrait, pts of color, ents will be abechniques. A maposition through	NonWeighted  xplore the transpare er paint media. Speciandscape, and abstralight, texture and ole to utilize, identifyajor emphasis is on eigh observation.	Semester nt media of sific projects act painting. composition y and name experiencing
Prerequisites  Painting Course Description  Prerequisites  Prerequisites  Painting 2	Painting is a watercolor painting tools a variety of te	ong course that a of interest asis will be playent explaining ree  7108  In introductory ainting, opaque matters in the laso explore the painting properties, materials, and exchniques and exchniques and explore the painting properties.	studio course acrylic paiareas of stille the concest occass. Studed painting to creating com	the student to to drawing ing a cohesive work.  .5 Credit rese that will enting and othelife, portrait, person of color, ents will be also chniques. A maposition throught.	NonWeighted and server and coherent body of the transpare of the transparent	Semester nt media of cific projects act painting. composition y and name experiencing
Course Description  Prerequisites  Painting  Course Description  Prerequisites	Painting is a watercolor painting tools a variety of te	ong course that a of interest asis will be playent explaining ree  7108  In introductory ainting, opaque matters in the laso explore the painting press, materials, and explaining explaining press, materials, and explaining explaining explaining explaining press, materials, and explaining explaini	studio course acrylic paraeas of stille the concest occess. Studed painting to creating commended to refine	the student to to drawing ing a cohesive work.  .5 Credit rese that will extend and othelife, portrait, lepts of color, ents will be absolute with the absolute of the color o	NonWeighted  Acrylic and Waterco  NonWeighted  Nout the transpare er paint media. Speciandscape, and abstratight, texture and cole to utilize, identifying or emphasis is on each observation.	Semester nt media of cific projects act painting. composition y and name experiencing  Semester  Semester  Semester  Semester
Prerequisites  Painting Course Description  Prerequisites  Prerequisites  Painting 2	Painting is as watercolor pawill address students will throughout the painting tools a variety of teas	ong course that a of interest asis will be playent explaining re  7108  In introductory ainting, opaque matters in the laso explore the painting presentations, and exchniques and the last open ainting presentations are considered.	studio course acrylic parareas of stille the concest occass. Studed painting to creating commended to refine acred in Painting the concest occass.	the student to to drawing ing a cohesive work.  .5 Credit rese that will enting and othelife, portrait, but of color, ents will be abschniques. A maposition through the condition of the color, and developting 1. Emphasis	NonWeighted  xplore the transpare er paint media. Speciandscape, and abstralight, texture and cole to utilize, identifyajor emphasis is on engh observation.  NonWeighted  NonWeighted  Acrylic and Waterconsis will be placed of	Semester nt media of composition y and name experiencing  Semester  Semester of painting.
Prerequisites  Painting Course Description  Prerequisites  Prerequisites  Painting 2	Painting is a watercolor painting tools a variety of te shells and te specific types	ong course that a of interest asis will be playent explaining re  7108  In introductory ainting, opaque matters in the laso explore the painting process, materials, and exchniques and decourse use chniques practics of genre pain	studio course acrylic parareas of stille the concest occass. Studed painting the creating commended in Painting (still-life ed to refine the concest occass) are acreating commended in Painting (still-life ed to refine the concest occasion occasion.	the student to to drawing ing a cohesive work.  .5 Credit rese that will enting and othelife, portrait, pts of color, ents will be abschniques. A maposition through the control of the co	NonWeighted  Acrylic and Waterco  NonWeighted  NonWeighted  Acrylic and Waterco  asis will be placed o  and landscape), comp	Semester and of work and Semester and of work and Semester and of sific projects act painting, composition y and name experiencing Semester lor painting on exploring position and
Prerequisites  Painting Course Description  Prerequisites  Prerequisites  Painting 2	Painting is a watercolor painting tools a variety of te None  A Semester skills and tes specific types color theory.	ong course that a of interest asis will be played explaining reconstructions.  7108  In introductory ainting, opaque matters in the painting process, materials, and exchniques and deconstructions.  7114  long course use chniques practions of genre painting other types of the painting practices of genre painting other types of the painting of genre painting other types of the painting practices of genre painting other types of the painting practices of genre painting other types of the painting practices of genre painting other types of the painting practices of genre painting painting practices of ge	studio course acrylic paiareas of stille the concest occass. Studed painting to creating commended in Painting (still-lift of painting to	the student to to drawing ing a cohesive work.  .5 Credit rese that will enting and othelife, portrait, pets of color, ents will be abechniques. A maposition through the contract of the cont	NonWeighted  xplore the transpare er paint media. Speciandscape, and abstratight, texture and cole to utilize, identifytajor emphasis is on eagh observation.  NonWeighted Acrylic and Waterconsis will be placed of and landscape), compose discussed and exp	Semester and of work and Semester and of work and Semester and of sific projects act painting, composition y and name experiencing Semester lor painting on exploring position and
Prerequisites  Painting Course Description  Prerequisites  Painting 2  Course Description	Painting is a watercolor painting tools a variety of te None  A Semester skills and tee specific types color theory. course such a	ong course that a of interest asis will be playent explaining ree  7108  In introductory ainting, opaque matters in the laso explore he painting press, materials, and exchniques and dece  7114  long course use chniques practise of genre painting	studio coure actional for versional for versional for versional for versional for versional for versional for studio coure acrylic paiareas of stiller the concest occess. Studed painting to creating comments of painting (still-lift painting percolor penciper of the course of the course occess.	the student to to drawing ing a cohesive work.  .5 Credit rese that will enting and othelife, portrait, pets of color, ents will be abechniques. A maposition through the contract of the cont	NonWeighted  xplore the transpare er paint media. Speciandscape, and abstratight, texture and cole to utilize, identifytajor emphasis is on eagh observation.  NonWeighted Acrylic and Waterconsis will be placed of and landscape), compose discussed and exp	Semester and of work and Semester and of work and Semester and of sific projects act painting composition and sexperiencing Semester lor painting position and
Prerequisites  Painting Course Description  Prerequisites  Prerequisites  Painting 2	Painting is as watercolor painting tools a variety of te specific types color theory. course such a a rist stateme.  None  Painting is as watercolor painting is as watercolor painting tools a variety of te specific types color theory. course such a 10th,	ong course that a of interest asis will be played explaining reconstructions.  7108  In introductory ainting, opaque matters in the painting process, materials, and exchniques and deconstructions.  7114  long course use chniques practions of genre painting other types of the painting practices of genre painting other types of the painting of genre painting other types of the painting practices of genre painting other types of the painting practices of genre painting other types of the painting practices of genre painting other types of the painting practices of genre painting painting practices of ge	studio course actional for versional for versional for versional for versional for versional for painting to the concest occass. Studies of painting to the concest occas for painting (still-lift of painting percolor pencional for painting	the student to to drawing ing a cohesive work.  .5 Credit rese that will enting and othelife, portrait, but of color, ents will be abordeniques. A maposition through the contraction of	NonWeighted  xplore the transpare er paint media. Speciandscape, and abstralight, texture and cole to utilize, identifyajor emphasis is on engh observation.  NonWeighted  Acrylic and Waterconsis will be placed of and landscape), compose discussed and expets.	Semester and of work and Semester and of work and Semester and of sific projects act painting, composition y and name experiencing Semester lor painting on exploring position and

Teacher Recommendation

Painting 3		7115		.5 Credit	NonWeighted	Semester
Course Description	in their area	of interest in re	gards to pai	nt medium, su	o develop and hone h bject matter and style ody of work and arti	e. Emphasis
7	explaining rational for work.					
Prerequisites	• 10th	, 11th and 12 <sup>th</sup> (	Grade			
	• Student must receive 90% or better in Painting 2					
	• Teac	her Recommer	dation			

Printmaking		7109		.5 Credit	NonWeighted	Semester
Course Description	opportunity to through the monoprint are in class. Stude the study of qualities of prelevance and	o learn the var printmaking nd collagraph p ents will be in tools, inks, pa prints e.g over	ious method process. I printmaking a nmersed in t per, plate pro lays, transpa	s of creating m Drypoint etch are a few of the he distinctive reparation, reg arency, offset,	will provide studer ultiple copies from a sing, linoleum redue techniques that will nature of printmaking printing print	single image action print, be practiced ag including cocesses and s. Historical
Prerequisites	• Non	e				

Sculpture		7110		.5 Credit	NonWeighted	Semester
Course Description	while develor form using a gain knowle construction.	ping both useft variety of mat dge in additiv Historical an stract forms are	al and sculpt erials such a ve, subtracti d contempo	cural forms. Stus clay, plaster, ve, and assen orary concepts	explore three-dimensing adents will explore the wood, and metals. Sublage techniques as ranging from represent quality craftsman	e element of tudents will s sources of esentational
Prerequisites	• None					

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

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

& Design	7480		1 Credit	NonWeighted	Year
course will vocabulary. students del- manipulation traditional/d	focus on designative into the dignation, compositing lighted art hybr	gn principle le and artis ital art reali g, vector ids will be	es and elementic voice will m. Students ward drawing, an	nts to advance stude be examined and de rill utilize digital pair imation, image tra	ents' digital eveloped as ating, image unsfer, and
	U	U			
	Along with docurse will vocabulary. students delemanipulation traditional/dowork method	Along with deeper explorat course will focus on design vocabulary. Individual stystudents delve into the digmanipulation, compositing traditional/digital art hybrowork methods and processed 90% in Digital Art	Along with deeper exploration into digital course will focus on design principle vocabulary. Individual style and artist students delve into the digital art real manipulation, compositing, vector	Along with deeper exploration into digital fine art tech course will focus on design principles and element vocabulary. Individual style and artistic voice will students delve into the digital art realm. Students with manipulation, compositing, vector drawing, and traditional/digital art hybrids will be explored and work methods and processes.  • 90% in Digital Art & Design	Along with deeper exploration into digital fine art techniques, styles and pr course will focus on design principles and elements to advance stude vocabulary. Individual style and artistic voice will be examined and de students delve into the digital art realm. Students will utilize digital pair manipulation, compositing, vector drawing, animation, image traditional/digital art hybrids will be explored and students will develop work methods and processes.  • 90% in Digital Art & Design

Honors Studio Art		7445	Honors	1 Credit	5.0 Weight	Year	
Course Description	This is a preparatory course designed for 11 <sup>th</sup> grade students who are interested in tal AP Studio Art in their senior year. Students will build upon and utilize prior draw and painting skills and techniques in order to begin creating a personalized Draw Portfolio. All course work will foster individualized creative problem solving, who students will be responsible for theme ideas and drawing styles. This course will lay groundwork for the AP Studio Art course by giving students a head start in creating						
	portfolio that is reflective of a unique and personal artistic voice.						
Prerequisites	• 90%	in any previo	us art cour	se and teache	er recommendation		

<b>Honors Digital Art</b>		7455	Honors	1 Credit	5.0 Weight	Year		
Course Description	taking AP Dedigital multindesign portforwherein stude	This is a preparatory course designed for 11th grade students who are interested taking AP Digital Art in their senior year. Students will build upon and utilize predigital 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. To course will lay the groundwork for the AP Digital Art course by giving students a here						
	start in creating a portfolio that is reflective of a unique and personal artistic voice.							
Prerequisites	• 90%	in Digital Art &	z Design					
	Teacl	ner recommend	dation					

AP Digital Art		7450	AP	1 Credit	5.5 Weight	Year
Course Description	Seniors who are seriously interested in the practical experience of a fit for this course. Students will create a portfolio of works that focus on utilizing techniques in digital art and multimedia. Please visit http://apcentral.collegeboard.com for a full course description.					
Prerequisites	• 80%	grade in Digital Art her recomme				

Game Design Triad (GD3):		7481		1 Credit	NonWeighted	Year
Video Game Art						
Course Description					relop the various vis ns, etc.) needed for a r essary handmade asse	ual graphic nultitude of
Prerequisites	None					

### (Back to All Course List)



## **Business**



#### (Back to All Course List)

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

ID	Course	ID	Course Name
6010	Introduction to Accounting	6070	Business Law
6055	Accounting 1B	6015	CiHS Principles of Accounting
6005	Financial Accounting	6065	Marketing Dynamics
6051	Foundations of Personal Finance	6009	Succeeding in the World of Work
6050	Introduction to Business Concepts	6080*	Sports and Entertainment Marketing
6060	Design, Multimedia, & Web Technologies		
6087	Game Design Triad: The Game Design Triad	consists c	of three yearlong courses that work collaboratively
	to allow the students to immerse themselves ir	ı a real-w	orld game design experience. Students will work
	in teams across the three classes as a collecti	ve "com	pany" to produce, design, animate, playtest and
	market their game to the student body. Throu	ghout the	e process, students will be responsible for meeting
	checkpoints and deadlines; they will be evalua		
	a. Character & Graphic Development (Aı	rt Depart	ment Offering)
	b. Game Development (Computer Scienc		
	c. Advanced Game Marketing & School	Store (B	usiness Department Offering)

<sup>\* =</sup> New Course



Introduction to Accoun	nting	6010		1 Credit	NonWeighted	Year
Course Description	Since it is known as the Language of Business, a working knowledge of accounting is					
-	desirable for	many career pa	ths includin	g general man	agement, marketing, f	finance, and
					ting program and is	
	course for bo	oth professiona	l and person	nal use. The er	mphasis is on unders	tanding the
	complete acc	counting cycle	for a busine	ess operated as	s a sole proprietorshi	ip. Business
	transactions	will be anal	yze, classifi	ed, and reco	rded using both m	nanual and
	_		•		ital principles of d	-
					sheets, special journal	
		0			ent in this course prov	
	foundation of the basics needed for organizing both personal and professional financial					
	information and assists with the transition to college-level accounting principles.					
Prerequisites	• Non	e				

Accounting 1B		6055		1 Credit	NonWeighted	Year
Course Description	Introduction accounting of transactions computerized bookkeeping planning an analyzing cowill add to	to Accounting cycle for a be will be analyd accounting along with sud recording a rporate financi	. However, to usiness operated, classiff systems. To ubsidiary led ccount allowal information of	the emphasis in the case of the fundamental depth and spectrum and spectrum wances and a con will be disconting be accounting be	of the concepts into son understanding the corporation. Corporation orded using both matal principles of decial journals, payroll edjustments, and precussed. Enrollment in asics and further assistant of the control o	ne complete te business nanual and ouble-entry accounting, paring and this course
Prerequisites	• Intro	duction to Acc	ounting			

Financial Accounting		6005		1 Credit	NonWeighted	Year
Course Description	course will pont a career concepts of utilization of	rovide the theo in any busine financial accor financial stater asset to any en	oretical backg ss-related fi unting that nent data. A	ground necessa eld. Students includes the working know	It from Financial According for students who a will be introduced to preparation, interpreviewge of accounting a associated.	re planning to the basic etation, and
Prerequisites	• Teac	her recommend	dation	_	_	

<b>Foundations of Personal Finance</b>		6051		.5 Credit	NonWeighted	Semester
Course Description	financial inc building, cre topics explor world situati	lependence. U dit and debit, : ed throughout	Inderstandin real estate, e this course. naking, prob	g money ma earning potent Critical thinkir	kills that will prepar magement, investme ial, and consumer aw ng skills including ana nd goal setting are also	nts, wealth vareness are alyzing real-
Prerequisites	• None	e				

<b>Introduction to Business Concepts</b>		6050		1 Credit	NonWeighted	Year
Course Description	running a sr Management and Ethics. So depth the asj incorporated revise and de way. We will	mall business to the marketing, Findents will respects of busines into the course liver business conduct busin	through examinance, Adverse and we search and we search and we search audits. Stude documents aness research	mining the mertising, Opera write a cumulate writing, oral ents will learn and presentation, analyze and	pportunity to gain any areas of busines any areas of busines tions, Human Resourtive business plan that, and collaborative sk how to plan, organized ons in a professional a solve business probled the and ideas through	s including ces, Finance explores in ills are also e, construct, nd effective ms through
Prerequisites	• Non	e				

Design, Multimedia, & Technologies	k Web	6060		.5 Credit	NonWeighted	Semester
Course Description	the importar Exploration implementat create websit	nce of the design to the design to of the final tes using HTM are that will al	gn process process fron working we L (Hyper Te	as it pertains n the develop: bsite will be a xt Markup Lai	digital communicatio to communicating version of the original focus. Additionally, so an anguage) as well as utile of their websites. The	ia the web. idea to the tudents will ilize state of
Prerequisites	• None	9		_		

Business Law		6070		1 Credit	NonWeighted	Year	
Course Description		, ,		0	luce students to the p		
	law and the ethics involved, the processes of our legal system, and the impact of legal decisions and their relevance to employers in the daily operation of a business. This						
	project based course focuses on 4 major operations research based projects.						
Prerequisites	• Intro	to Business (re	ecommendec	1)			

### (Back to All Course List)

CiHS Principles of Accounting		6015	CiHS	1 Credit	5.0 Weight	Year	
Course Description	This College in the High School course is an introduction to the basic concepts of						
	accounting, emphasizing the accounting cycle; principles and concepts governing the						
	recording and reporting of accounting data; journal entries including adjusting and						
	closing entries; trial balances; and financial statements. Accounting for assets is covered						
	in detail. The focus of this course is on sole proprietorships. College credit may be						
	earned if all requirements are met; a fee is attached to earning college credit. (from						
	Carlow University Undergraduate Course Catalog 2014-2015)						
Prerequisites	• Non	e					

Game Design Triad (G	Game Design Triad (GD3):			1 Credit	NonWeighted	Year	
Advanced Game Marketing & School Store							
Course Description	Advanced Game Marketing provides students with solid experiences in market-driven strategies for the future success of a business, specifically development company. Students will take the approach of Chief Marketing (CMO) and a marketing leadership perspective to maximize their game's precognition within the marketplace. Students will gain real-world experience work collaboratively to implement a marketing plan that will impact the opin buying behaviors of customers and the overall success of the game. In ad participation in the Game Fair, students will have an active role in managing the store.						
Prerequisites			` _	,	ts take the Introduction	on to	

<b>Marketing Dynamics</b>		6065		1 Credit	NonWeighted	Year		
Course Description	an in-depth l have the opp Also incorpo successfully customer resanalyzing thapplications.	students who ook into marked ortunity to inverted are the market a new search. The sene concepts	eting theorie vestigate the developmen product, de econd half c learned thr be given th	ed in the field of s, approaches marketing ap to of the though evelop new proof the year wough project the opportunity	of marketing, this cou and functions. Studen proaches used in var ght process and skills roducts, and gather p fill focus on implem ss, simulations, and	rse provide nts will also ious media. s needed to product and tenting and hands-on juired basic		
Down wister	facing many hospitality, t levels.							
Prerequisites	• Non	e						

Succeeding in the World of Work		6009		1 Credit	NonWeighted	Year		
Course Description	Succeeding in the World of Work is a year-long course that provides students who are							
					nt in the near futur			
	fundamentals of employment and strategies for success in the workforce utilizing a co-							
	teaching model. Students explore and study areas including on-the-job and employment							
	skills, communication and personal skills, daily work skills, ethics, diversity, personal							
	finance, the job	cycle, and i	independent	living. Succee	ding in the World of Wo	ork provides		
	students with the knowledge and skills needed to make a smooth transition into the							
	workforce. This	s class is gea	ared to help	students beco	ome intellectually ene	ergized in a		
	dynamic and challenging atmosphere that engages and motivates students to a higher							
	academic and personal level.							
Prerequisites	• None			·				

Sports and Entertainment		6080		.5 Credit	NonWeighted	Semester
Marketing						
Course Description Sports and Entertainment Marketing is a semester specialized course design				ned to offer		
_	students an opportunity to gain knowledge and develop skills related to the growing					the growing
					, students acquire	
- W	knowledge a	and skills rela	ted to the	industry of sp	oorts, entertainment,	and event
knowledge and skills related to the industry of sports, entertain marketing. Students will develop skills in the areas of merchands					s of merchandising,	advertising,
**	public relations/ publicity, event marketing, sponsoring, ticket distribution, and career					
	opportunities as they relate to the sports and entertainment industry.					
Prerequisites	• Intro	to Business (re	ecommended	<u>(t</u>		



# Career & Community Learning Opportunities



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

<b>Peer Learning Assistan</b>	nt	6092		.5 Credit	NonWeighted	Year
Course Description	apply the school. S library p Designat opportur spots ava	eir leadershi specifically, peer managed ed students nity include nilable based	p and acade students carger, and/or will help other a competing on set crites.	mic skills that can apply to becon academic tutor ner students and a cive application a	nts the opportunity to n be transferred to life me a technology sup- r during available of assist instructors in the and interview process availability. For mor- ingassistant	e beyond high port assistant, class periods. ese areas. This s with limited
Prerequisites			<sup>th</sup> or 12th gra ation from ap	nde oplication commit	tee	

Work Experience		6090		1-3 Credits	NonWeighted	Year
Course Description	the opport scheduling experience and sche	unity of employ f flexibility simes. Evaluations dules, comple	yment d nilar to will incl tion of	uring the senior y what they will e ude visits to the w student journ	le learning experience year. Work experience encounter with most prorkplace, monitoring als and reflections, in the workplace and sc	offers seniors costsecondary of work hours independent
Prerequisites	• Er	th grade prolled in 5 class punselor recomi udent training a	mendati	on		



## Computer Science



(Back to All Course List)

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

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

ID	Course Name	ID	Course Name				
6062	AP Computer Science Principles	6021*	Cybercrime & Digital Forensics				
2635	AP Computer Science A	2650	Introduction to C#				
2653	CiHS C++	2612	Introduction to Computer Programming				
		2614* Computer Programming Applications					
2613	Game Design Triad: The Game Design Triac	d consists	of three yearlong courses that work collaboratively to				
	allow the students to immerse themselves in	ı a real-w	orld game design experience. Students will work in				
	teams across the three classes as a collective	"compar	ny" to produce, design, animate, playtest and market				
	their game to the student body. Throughout t	he proces	s, students will be responsible for meeting checkpoints				
	and deadlines; they will be evaluated on the	success o	f their final game launch.				
	a. Character & Graphic Development (A						
	b. Game Development (Computer Scie	nce Depa	artment Offering)				
	c. Advanced Game Marketing (Business	s Departn	nent Offering)				

<sup>=</sup> New Course



<b>AP Computer Science</b>	Principles	6062	AP	1 Credit	5.5 Weight	Year			
Course Description	AP Compute	AP Computer Science Principles is designed to introduce students to the central ideas of							
_					of computational th				
					anges the world. Th				
	course promotes deep learning of computational thinking skills, and engages students								
	in the creativ	in the creative aspects of the field.							
		-		0	ents to be creative. S				
		110			ing computational art				
					estions that interest th				
					ool, the course focus				
	0,	1 0	,	-	outational problems a				
		1 ,			lesign and implement				
		0	•		tists, writers, compute				
		and engineers use to bring ideas to life. This course may be used as a math or science credit.							
Prerequisites		essful completi		etry					
	• Or T	eacher Recomn	nendation						

<b>AP Computer Science</b>	A	2635	AP	1 Credit	5.5 Weight	Year		
Course Description	0 ,	A highly challenging course that is designed for the motivated student who is planning a career in computer science, business or any science-related fields. The Advanced						
	Placement (A	Placement (AP) curriculum will be followed and includes an in-depth case study. Students are expected to participate in the AP exam which occurs in May. This exam						
	requires a tho		dge of Java a		nming techniques. Thi			
Prerequisites	Introduction to Computer Programming     Teacher recommendation							

Game Design Triad (G	D3):	2613		1 Credit	NonWeighted	Year
Game Development						
Course Description	Game Develo	pment is desig	gned for aspi	iring game dev	elopers who want to	gain a solid
foundation in the game development/design process. Students will gain real w						
	experience as they work in student teams to design games from the ground up in the					
	Unity game	engine. Th	e Game De	evelopment c	lass will serve as	the design,
	development	, and implemen	ntation of the	e game leg of th	ne Game Design Triad	. The Game
	development	course should	l appeal to i	ndividuals wh	o are good problem	solvers and
	able to work	as a productive	e member of	a team.		
Prerequisites	• Non	e				

CiHS C++		2653	CiHS	1 Credit	5.0 Weight	Year	
Course Description	may be earne programming language ena programming	In the High School C++ is affiliated with Duquesne University and college creditarned (purchased) for successful completion of this course. C++ is an advance ming language that introduces the concepts of objects. This highly structure e enables the student to write code that is organized, precise, and clear. A principle produced will be very useful in understanding the routines presented in the concepts of the course o					
Prerequisites		duction to Con her recommend	1 0	ramming			

Cybercrime & Digital	Forensics	6021		.5 Credit	4.0 Weight	Semester		
Course Description	conducted a	nd how new	criminal op	portunities ha	ave been created. St	udents will		
NEW	The cybercrime & digital forensics course explores how existing criminal activity is conducted and how new criminal opportunities have been created. Students will examine the history and nature of computer-related crime and how societies have attempted to respond. Students will discuss the different types of cybercriminals, including motives, rationale, and methods of attack. Students will also evaluate various legal issues cyberspace including surveillance, sting operations, current and proposed legislation, user-reporting initiatives, identity filtering/blocking technologies, vigilante movements, individual rights, and international law enforcement cooperation.							
Prerequisites	• Non	e						

Introduction to C#		2650		.5 Credit	NonWeighted	Semester
Course Description	programming similar to C+ Students will	g techniques t + but will have have the neces n C#. Upon suc	hat use arra e a visual env sary knowle	nys and object vironment sim dge to conduct	omputer concepts arts. The language syrilar to Visual Basic. research into Microscourse, students will	oft's gaming
Proroquisitos	help them to C#, a powerf will be better	build their ow	n games usi guage. Upoi he Game De	ing the Unity ; n successful co sign Triad.	and game developm game engine. This cl empletion of this cour	ass will use
Prerequisites		her recommend		anning		

Introduction to Compu	uter	2612		1 Credit	NonWeighted	Year
Programming						
Course Description	Description  This course will us Carnegie Mellon U opportunity to wo Students will get a graphics, functions then the second ser			ourse, Chartie or students fr to programmi rings. Student	o with professors and rs Valley students wom Carnegie Mellon ng techniques by studes will begin learning pand languages.	ill have the University. ying errors,
Prerequisites	• Enro	lled in or comp	oleted Algeb	ra 1		

Computer Programmin	ng	2614		1 Credit	NonWeighted	Year		
Applications								
Course Description	Carnegie M introduction topics (such problem-solv	This course will use curriculum written in partnership with professors and students at Carnegie Mellon University. It builds on the programming skills learned introduction to computer science course covering additional programming and Catopics (such as sets and maps), and then applying and extending computations problem-solving skills in a variety of application areas. Units will apply computation such areas as art, science, music, math, data analysis and visualization, simulation						
		game design, web applications, security, machine learning and artificial intelligence, and						
Prerequisites	• Intro	duction to Cor	nputer Prog	ramming				



# English



#### (Back to All Course List)

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

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

ID	12th Grade English Courses	ID	Electives: Full Year	ID	Electives: Semester
1422	World Literature	1532	Journalism/ Yearbook	1509	Media Writing and Public
	12/Composition 4				Relations
1426	Advanced World Literature	1542	Yearbook Production	1503	SAT Prep
	12: Voices in World				
	Literature & College Writing				
1350	AP Language &	1502	CiHS Communications/	1506	Public Speaking
	Composition		Rhetoric		
1355	AP Literature &			1507	Creative Writing
	Composition				_
1360	AP Seminar			1508	Shakespeare and the Origins
					of the Modern Hero
1365	AP Research			1504	CiHS Introduction to Film
				1510*	Intro to Screenplay Writing

<sup>\* =</sup> New Course



English 9/Composition 1		1111		1 Credit	NonWeighted	Year
Course Description	This course is an introduction to high			gh school level composition and literature		
	curriculum. Each student will further develop those skills needed for the rigors of high					gors of high
	school level writing and critical thinking in response to fiction and non-fiction tex					iction texts.
	Instruction will be geared to students' ability, such that they can develop the s				p the skills	
	necessary to	succeed at this	level.	·	•	
Prerequisites	8 <sup>th</sup> grade performance data					
•	Teacher recommendation					

<b>English 9/Advanced Composition 1</b>		1131		1 Credit	NonWeighted	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						
				-	2		
					r the rigors of high s		
	writing and	critical thinking	g in respons	e to fiction an	d non-fiction texts. St	tudents will	
	examine the	content of lite	erature as w	ell as the wri	ter's style and struct	ure of each	
	assigned piece. Emphasis will be placed on formal, analytical essays and the synthesis						
	of various sources into one cohesive, written assignment.						
Prerequisites	8th grade performance data						

Teacher recommendation	

<b>Honors English 9/Composition 1</b>		1132	Honors	1 Credit	5.0	Year	
Course Description	This course is designed to prepare students for the rigorous learning pace and literature						
	of Advanced	of Advanced Placement studies. 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. S	Students will st	udy fiction, 1	non-fiction, dra	ama and poetry from v	various time	
	periods and o	countries of ori	gin.		- •		
Prerequisites	85% or higher in 8 <sup>th</sup> Grade Literature and English						
•	Teacher recommendation						

English 10/Composition 2		1211		1 Credit	NonWeighted	Year
Course Description	curriculum o	of the high school analytically. Downiting, critical	ool. Students uring this st	s will read exa udy, they will	f the composition an mples of all genres a be encouraged to do ethods in response to	nd begin to evelop high
Prerequisites		rade performa				
	Teacher recommendation					

English 10 Advanced/Composition 2		1231	AP	1 Credit	NonWeighted	Year
Course Description	This course is a continuation of high school level advanced composition and literatu curriculum. Students will explore the advanced elements of analytical writing as well grammar and usage. Each student will further those skills needed for the rigors of his school level writing, critical thinking and rhetorical methods in response to fiction are					
	non-fiction tex		O		1	
Prerequisites		ade performa: er recommenc				

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

American Literature Cor	nposition 3/11	1322		1 Credit	NonWeighted	Year		
Course Description	The emphasis of this course is placed on the reading, writing, and research element of							
-	the Pennsylvania	a Core Standa	rds. The co	ourse follows a	thematic element of the	he "Coming		
					period of their life. Ea			
	focus, reflect, an	d revolve are	ound these	e unique them	es associated with the	e coming of		
	age in reference	to direction	in life, the	responsibiliti	es of a young adult,	discovering		
	oneself, etc. Lite	erature will i	nclude no	vels, short sto	ories and poetry sele	ctions from		
	American literat	ure Critical	analysis es	ssays, practical	l and career writing a	nd projects,		
	objective tests, a	and project b	oased lear	ning assignme	ents will be utilized	to evaluate		
	student understanding as it correlates to the Common Core Standards.							
Prerequisites	10th grade performance data							
	Teacher	recommenda	ition					

Advanced Language & C	Composition/11	1325		1 Credit	NonWeighted	Year		
Course Description	The goal of this course is to have students read complex fiction and nonfiction texts and							
_	respond in writing	ng that coi	nveys depth	of understand	ling and meaning. St	udents will		
	develop close rea	ding and	critical think	ing skills in or	der to identify and u	nderstand a		
	writer's argumen	t and meth	nods of persu	ıasion. Studer	nts will learn to constr	uct original		
	argumentation t	hrough t	he analysis	of the tech	nniques of rhetorica	al analysis,		
	argumentation ar	nd synthes	is. In additio	n, students wil	ll learn to write persua	asively with		
	evidence and me	aningful co	ommentary.	Based on the o	curriculum for AP La	nguage and		
	Composition, the	skills mas	tered in this	course provide	e students with an ana	alytical base		
	which can be applied to all subject areas.							
Prerequisites	10 <sup>th</sup> grade performance data							
	Teacher r	ecommen	dation					

World Literature 12/ Con	nposition 4	1422		1 Credit	NonWeighted	Year	
Course Description	Each unit of the course focuses on building literary skills that are needed in the post-secondary world. Analysis of fiction and non-fiction selections, in conjunction with grammar, vocabulary, and writing skills, will further develop student comprehension and the ability to communicate in both written and oral forms as required by the Pennsylvania core standards. In addition, students are prepared for post-secondary						
	communicati writing assig work indepe	on skills throun	agh project of assessments las in a grou	oriented asses s reflect the st up, and to com	are prepared for pos sments and career a udent's ability to thir prehend and respond	nd practical nk critically,	
Prerequisites	11 <sup>th</sup> grade performance data     Teacher recommendations						

Advanced World Liter		1426		1 Credit	NonWeighted	Year		
Voices in World Literature College Writing	G							
Course Description	Advanced World Literature is comprised of two courses (Voices in World Literature and College Writing), but will be scheduled as a yearlong class. Students will switch teachers to take the opposite half of the course at the end of the first semester.  Voices in World Literature will explore timeless storylines of literature from all across human history and from all across the globe. Our study will include an exploration of the significance and meaning uncovered from multiple cultures and time periods, from ancient mythology to modern storytelling in various forms and genres. The course is designed as an inquisitive journey that will include pieces ranging from Beowulf to the							
	Beatles' lyrics. Students will be exposed to stories, beliefs and ideas from all around the world in an effort to prepare for life ahead by developing skills in analytical thought and writing.  College Writing is designed to help students hone writing skills essential for college.							
	Centered around the theme of identity, students will read and respond to various texts will study the writing process including drafts and revisions, and ultimately write research paper.							
Prerequisites	• 11 <sup>th</sup> (	Grade Teacher	Recommend	ation	_			

AP Seminar		1360	AP	1 Credit	5.5 Weight	Year
Course Description	as part of the issues from a sources in ord to synthesize research-base presentations 2016)  In AP Seminat the end of window. All score (using the effectively are to be offectively are to be offertively are to be offerti	e AP Capstone <sup>1</sup> multiple perspected to develop of a information set written established written established written are April and a 2-h three assessmenthe 1 to 5 scale) of successful indication work products a pre-requision of the approach of the approa	M Program. ectives, gatheredible and from multip says, as we ally and as per assessed wour end-of-cents are sum for AP Semulticatively and the for AP R	In AP Seminary and analytic valid evidence le sources, de ell as design part of a team. The two throughourse exam durative and with two throughourse exam durative and with two throughourse exam durative and with the example of the	rade students taken or, students investigate lyzing information for based arguments. Street velop their own per and deliver oral (AP Seminar, College gh-course performance in the AP Exam additionar, College Board, Mountains to be able to manage ly during class time.	e real-world rom various udents learn spectives in and visual e Board, May ce tasks due ministration te a final AP ay 2016)  e their time
D ::	requirement		7F.0/ :	ADE 1: 1	000/ * 4.1	1.1.1.1
Prerequisites	<ul><li>Instruct</li><li>Student</li></ul>	or approval re	quired. nonstrated a	a strong work e	arse or 90% in Advanethic and the ability to	

AP Research		1365	AP	1 Credit	5.5 Weight	Year
Course Description	deeply explored design, plan, Through this learning researallyzing, and document the process and solution 5,000 words (	re an academic and implement inquiry, they from earch methodo and synthesizing eir processes, reflection portfoaccompanied l	topic, proble nt a yearlong further the sl logy, employ g informatio and curate to olio. The coupy a perform	em, issue, or identification of the control of the	e experience, allows ea of individual intered in to address a research ired in the AP Seminal esearch practices, and effect on their skill defet their scholarly works in an academic paper product where applege Board, 2017)	est. Students ch question. ar course by d accessing, evelopment, k through a per of 4,000-
Prerequisites	<ul> <li>AP Sem required be succed</li> <li>Student eligible</li> <li>Student end of the withdraw</li> </ul>	inar is a prerect d assessment co essful in AP Re s must score a to take AP Res s need to sign a he first nine we w from the cou h is meeting th	quisite for Al omponents is search. (AP l 3 or higher c earch. an enrollmer eeks the stud urse and will	P Research. Cos necessary for Research, Colle on the AP Semint contract at the Research is not progue to enrolled in the Research to the Resea	empleting AP Seminar estudents to develop to ege Board, 2017) inar End of Course Ex the beginning of the year gressing, the student of a another English class ement for the year or a	the skills to  cam 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 <b>Advanced Placement</b> 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, to use proper grammar, and to 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	Ionors English recommendatio		n AP English c	ourse or 90% in Adva	inced		

AP Literature and Com	position	1355	AP	1 Credit	5.5 Weight	Year				
Course Description	Advanced P	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.									
					ses frequent writing					
	revision, trai	ning the stude:	nt to think a	nd organize c	learly and to be direc	t, lucid and				
	supported by	y the text. Par	ticipation ir	n whole class	and small group dis	scussions is				
	essential. Stu	dents are expe	cted to take t	the Advanced	Placement exam give	n in May.				
Prerequisites	• 80% in Honors English, 75% in an AP English course or 90% in Advanced English									
	<ul> <li>Teacher</li> </ul>	Recommenda	tion							

CiHS Communications/Rhetoric		1502	CiHS	1 Credit	5.0 Weight	Year			
Course Description	This course	examines arg	gument thro	ough the exa	mination of various	s forms of			
•	communicative argumentation and debating techniques. Each unit will follow a series								
	of themes or related issues in order to better understand and apply various forms of								
	argumentation and debate. The development of argument techniques will be examined								
	through classroom debates and forms of argument, visual/audible/published								
	_	expression of argument, and development of critical thinking skills. In depth discussions							
				•	gumentation of socia	,			
					ell as real life situation	onal project			
	challenges ar	e an integral pa	art of the cou	ırse.					
					s an option to receive t				
		•	0		orticulated through the	•			
					want to earn college c	redits. Class			
	attendance is imperative to receive college credits.								
Prerequisites		in English							
	• Engl	ish teacher reco	ommendatio	n					

Journalism/Yearbook		1532		1 Credit	NonWeighted	Year			
Course Description	Nexus. Stude to create the band captions business. As curriculum, school day temphasize an history or perelations tool the following	This course will teach the basic skills needed to produce the Chartiers Valley yearbook, Nexus. Students will gain an understanding of how to use desktop publishing software to create the book. Students will also learn skills including creating layouts, writing copy and captions, editing photos, interviewing techniques, taking pictures and managing a business. As yearbook production is a business, fundraising is a required part of the curriculum. Additionally, students must be available to attend events outside of the school day to take photographs and report on school events. This course will also emphasize an understanding of the concepts of a yearbook as a story of one year, as a history or permanent record of one school year, as a reference book, and as a public relations tool. 10th and 11th grade students are expected to take Yearbook Production the following year.  • 10th and 11th grade  • 80% in English							
Prerequisites	• 80%		dation						

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

Media Writing and Public Relations		1509		.5	NonWeigted	Semester
Course Description	including pr television/poo choice, speech, allow students of the skills re choice, style, o combine then communicate	ess releases deasts. We wi , body langua s to continue to equired of stu- organization. n with a mo- effectively, co- nis course wi	s, news s ll stress clear ge, delivery heir develop idents in the In this cours ore nuanced oncisely, and ill provide e	cripts, copy, r communication technique, and technique, and technique are regular Engular Engular Engular Engular se, students will form of wrappropriately	g related to career op social media, a on of an idea through organization. This co es. Media writing rein glish courses - resear- ill strengthen these s iting for media. The is important regardle a multitude of mod	voice, word ourse would forces many ching, word kills as they e ability to ess of career
Prerequisites	• None					

Creative Writing		1507		.5	NonWeigted	Semester
Course Description	relation to the techniques so Students will edit, and ma	eir writing ski uch as poetry, participate in ke constructive levelopment a	lls. Students short storie the writing sees suggestions	s will learn va s, flash fiction workshop pro s to the writte	rperiment with creative writing and screenp cess where they will per work. Students will ossibly have the opposite the students will constitute the opposite the students will ossibly have the opposite the students.	g styles and lay writing. beer review, ll also focus
Prerequisites	• None	2				

SAT Prep		1503		.5	NonWeigted	Semester		
Course Description	This semester	r SAT Prep cou	rse is specifi	c to <u>college bo</u> ı	und students who pla	n to take the		
	SAT in the ne	SAT in the next few months or have taken the SAT and plan to re-take it. Course is not						
	relevant for	relevant for seniors in the spring semester of their senior year. Utilizing the College						
	Board model	, this Evidence	Based Read	ing and Writin	g course is organized	around key		
	skills and concepts tested on the <b>Reading Test and Writing and Language Test ONLY</b> .							
	Practice on Official SAT Practice is organized around passage content and writing type,							
	so even though a class lesson will focus on one or two skills at a time, during							
	independent	practice stude	ents will be	able to apply	multiple skills acro	oss multiple		
	passages in a	way that is aut	thentic to ho	w we read and	write in daily life. Th	e four essay		
	lessons begir	n with examini	ng and unp	acking the pro	ompt and lead into w	riting a full		
	response. En	rollment is lin	nited to 18 st	tudents per se	mester and students	must have a		
	working lapt	top daily to pro	operly utiliz	e the online p	latform.			
Prerequisites					English coursework			
		or higher, advanced 10 with a B or higher, AP 11 English coursework with a						
	C+ o	r higher or adv	anced 11 En	glish with a B	or higher.			

Public Speaking		1506		.5	NonWeigted	Semester
Course Description	will learn of communicati integrate info allow studen listening, and	lifferent types on, speaking, ormation into ots to combine I speaking all in	s of speech and listening clearly organ multiple sk n one course	n, mechanics g etiquette. nized, develop ills – research . Presentation	tes an effective speake of speech, dynamic We will use research bed speeches. This co a, interviewing, readi skills are imperative by to enter the workfor	es of good ing skills to turse would ng, writing, for students
Prerequisites	• None	9				

Shakespeare and the C	Origins of	1508		.5	NonWeigted	Semester
the Modern Hero						
Course Description	Shakespeare' and villains i characters to Joker, Snow' that go into c	s plays. The fo n Julius Caesar the modern he White, and Ma	cus of our st r, King Lear, eroes of toda leficent. Stud	udy will be on Othello, etc. V y's literature a dents will learr	I read and watch rend the development of the We will then compare and films such as Batm to synthesize the converting, presentations	the heroes these nan, The re elements
Prerequisites	• None	е				

CiHS Introduction to I	Film	1504	CiHS	.5	5.0 Weight	Semester
Course Description	appreciate, a technique thr well as other screenplays, and rework of revise and in	analyze and in analyze and in arts, including analyze shots, existing scripts	nterpret the ium of film in ig photograp research film s, compose s ue, compose	me, character ncluding cinen phy, painting, m history, stu- tory treatment action sequen	rts that teaches stude, story structure and a, television, and sociand theater. Studendy, and critique directs, pitch ideas in a groces, draft their own shal works.	d narrative ial media as ts will read ctors, retool oup setting,
Prerequisites	• None	2		· ·		

Intro to Screenwriting		1510		.5	4.0 Weight	Semester
Course Description	screenplay w modern worl screens. A sc billion dollar pay for well-	riting. Units d is a world of reenwriting co industry. Con	will range f digital scree urse would mpanies suc tt. Additiona	rom format st ns. Large corp give Chartiers h as Netflix, A	mentals of film and tructure to story bui orations need content Valley students a gat Amazon, Hulu, etc. ar would give students	lding. The to fill those eway into a e willing to
Prerequisites	• None	9		·		



# Family & Consumer Science



#### (Back to All Course List)

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

ID	Course Name	ID	Course Name
8511	Introduction to the World of Food and Nutrition 1	8506	Early Childhood Practicum 2
8512	Ethnic and Regional Cuisine and Nutrition 2	8508	Primary School Practicum
8501	Child Development and Family Relations	8513	Culinary Arts & Food Science
8505	Early Childhood Practicum 1	8520	Introduction to Interior Design

Introduction to the Wo	orld of	8511		1 Credit	NonWeighted	Year		
Food and Nutrition 1								
Course Description	This is an introductory course that involves students in basic principles of nutrition and							
_	their applications to food choices, nutritional analysis and consumerism. The course							
	defines the need for students to understand their role in healthy eating to ensure good							
	health in the future. While working in teams, students will gain necessary work skills							
	including communications, organization, and technical reading to ensure success in							
	their future o	areers. Kitcher	n manageme	ent, recipe skill	s and basic food prep	arations are		
	incorporated in the weekly foods labs while students learn about nutrition and health							
	responsibiliti	responsibilities in their family, career, and community environments.						
Prerequisites	• None	9						

<b>Ethnic and Regional C</b>	uisine	8512		1 Credit	NonWeighted	Year
and Nutrition 2						
Course Description	Nutrition 1 a projects to entechniques, ovarious region family dietarn principles w	and allows the xplore selected consumer chal onal and ethnic ry needs. Stud hile working is	e student to ethnic food lenges and c foods in w ents will al	delve into mo s in relation t career opport yeekly labs, as so practice pr	uction to the World or ore specialized and in o customs and food tunities. Students well as identify ind oper food safety and ling in work skills re	ndependent preparation vill prepare ividual and d sanitation
	future emplo	yers.				
Prerequisites	• 75%	in Intro to Wor	ld of Foods			

Child Development ar	nd Family	8501		1 Credit	NonWeighted	Year	
Relations							
Course Description	This course of	This course offers an in-depth look at the concepts and theories associated with child					
_	development. Emphasis is placed on the child's total development, physical, mental,						
	moral, social and emotional, as the child proceeds through the sequential developmental						
	stages from birth to early childhood. This course offers hands-on experiences including						
	the use of R	eal Care Baby	Simulators,	as well as, pr	actical experience w	ith children	
	through lim	ited direct pa	rticipation i	n the high so	chool children's lear	ning center	
	program. Students are also involved in community activities such as Blood Drives, and						
	various preso	chool activities.					
Prerequisites	• Non	e		_			

Early Childhood Pract	icum 1	8505		2 Credits	NonWeighted	Year		
Course Description	This double-	period course is	s designed to	explore adva	nced child developme	ent concepts		
•	and theories	and theories through an actual interactive experience. Students plan lessons in the areas						
	of the arts, so	cience, literacy	and math to	develop a ch	ild's physical, mental	, social and		
	emotional growth. This is a performance-based class that integrates all academic skills.							
	Students who choose this course need to have an interest in children and strive to							
	understand their needs. This course is a great introduction to the teaching profession.							
		-		nack fee to cov	er the high school stud	lent's snack		
	during Learn	ing Center sess	sions.					
Prerequisites	• 75%	or better in Chi	ild Developn	nent and Fami	ly Relations			
_	<ul> <li>Teach</li> </ul>	her Recommen	dation					

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

<b>Primary School Practic</b>	cum	8508		2/3 Credits	NonWeighted	Year		
Course Description	This two or three credit course is designed to provide students on-the-job experience in							
		the field of education. Students are placed at the primary school under the supervision						
	of a co-operating teacher. The student will assist the cooperating teacher in a variety of							
	activities including lesson preparation, teaching, testing, grading, tutoring, etc. This is							
	a great opportunity to experience the teaching profession. This course must be taken							
	with the Prin	nary School Se	rvice cours	e as a pre-stude	ent teaching experience	ce. Students		
	will be require	d to walk across	the bridge to	the Primary Sch	100l.			
Prerequisites	• 80%	in Early Childh	nood Educa	tion 1				
	• 12th	grade students	only					
	• Teac	her recommend	dation					

<b>Culinary Arts &amp; Food</b>	Culinary Arts & Food Science			1 Credit	NonWeighted	Year	
Course Description		This course is designed to provide students with higher level skills in the culinary field with an emphasis on the sciences in food preparation. Students will analytical skills in					
HEM	food safety as of food, eval successfully	nd sanitation, t uate food sens	he chemistry ory and the oduction to	of food, funct psychology of Food and Nu	ional and nutritional of food and eating. Stu trition and Ethnic ar	components idents must	
Prerequisites	• Grad	les 11 & 12					

<b>Introduction to Interio</b>	Introduction to Interior Design			.5 Credit	NonWeighted	Semester	
Course Description	This course is designed to teach students the elements of design. Students will create an						
JEW .	impact using color, fabrics, and textures. Instruction will focus on the history of interior						
	design, furniture styles and design theory through projects and presentations.						
Prerequisites	• None	9		·			



## **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		

<sup>\* =</sup> New Course



Pre-Algebra		2121		1 Credit	NonWeighted	Year
Course Description	arithmetic alg Algebra I and learning strat step equation operations w spatial think	gorithms. The call II. The course regies. Students and inequal ith fractions, r	course emphase helps students will explorations, decimal ratios, propositions, riderations, ride	asizes the cond nts develop go e algebraic exp lls and equation rtions, percentight triangles	epts necessary to be sood mathematical studeressions and integers ons, factors, fractions and in Algebra, data as	successful in ly skills and s, solve one- , exponents, d graphing,
Prerequisites	• None	9				

Algebra 1		2122		1 Credit	NonWeighted	Year
Course Description	Students will formalize and expand on algebraic concepts established in previo coursework. Students will deepen and extend their understanding of linear are exponential relationships by contrasting them with each other and by applying line models to data that exhibit a linear trend. They will engage in methods for analyzing and using functions. Students will fluently move between multiple representations functions including but not limited to linear, exponential and quadratics.					
Prerequisites		essful completi	0	ra Essentials		
	• Teac	her recommend	dation			

Cognitive Algebra 1		2123		1 Credit	NonWeighted	Year		
Course Description	Cognitive Al	gebra 1 is desig	ned to stren	gthen Algebra	1 skills in preparation	n for the PA		
•	State Algebra 1 Keystone Exam. The course will explore the two modules: (1) Operations							
	and Linear Equations & Inequalities and (2) Linear Functions & Data Organizations							
	focusing on the following six anchors: Operations with Real Numbers and Expressions,							
	Linear Equations, Linear Inequalities, Functions, Coordinate Geometry and Data							
	,				w basic on the Algeb	ra Keystone		
	Exam will be recommended to take this course.							
Prerequisites	<ul> <li>Alge</li> </ul>	bra 1						

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

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

Honors Algebra 2		2143	Honors	1 Credit	5.0 Weight	Year
Course Description	trigonometric students will and solve ec exponential e statistics and	e, and radical apply their un quations inclusquations using probability as ted coverage, v	functions.  Iderstanding  ding quadr  the proper  a tool for n	Working closts of transformal atics over the ties of logarith making inferen	include polynomiasely with families of tions. They will mode set of complex nums. Students will use ces about data. Some in greater depths than	f functions, el situations umbers and descriptive e topics will
Prerequisites		in Algebra 1				
	<ul> <li>Teacl</li> </ul>	her recommend	dation			

Cognitive Geometry		2111		1 Credit	NonWeighted	Year
Course Description	algebraic exp Students exp mathematica trigonometry	eriences. Stude lore more comp larguments,	ents will cont plex geometr transformat probability.	inue their wor ic concepts, an ions, the coo This course w	d extend students' ged k with similarity and d d relationships, include ordinate system, rig vill move at a slower roach.	congruence. ling: formal tht triangle
Prerequisites		v 75% in Algel				
	<ul> <li>Teacl</li> </ul>	her recommend	dation			

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

<b>Honors Combined Geo</b>	ometry	2244	Honors	1 Credit	5.0 Weight	Year
Course Description	The purpose of the course is to formalize, deepen and extend students' geometric and algebraic experiences. Students will continue their work with similarity and congruence Students explore more complex geometric concepts, and relationships, including: forma mathematical arguments, transformations, the coordinate system, right triangle trigonometry circles and probability. Some topics will have accelerated coverage, while some will be covered in greater depths than the Combined Geometry course.  • 93% in Algebra 1					congruence. ding: formal tht triangle erage, while
Prerequisites		in Algebra 1 her recommend	dation			

Algebra 3		2145		1 Credit	NonWeighted	Year
Course Description	use them to s linear and o complex nun	olve problems uadratic func	that we enco tions, syster s will also be	ounter in every ns of equation e introduced to	oraic principles and le day life. Students will ns, polynomials, gra o basic trigonometry. arios.	learn about phing, and
Prerequisites		essful completi her recommend		tive Algebra 2		

Trigonometry/Analysis		2313		1 Credit	NonWeighted	Year
Course Description	A course dealing with the concepts of algebra, composition of functions, exponential an					onential and
•	logarithmic functions, finite and infinite sequences and series, circular functions, radian					
	measure, solution of right triangles and application of the Laws of Sines and Cosines.					
Prerequisites	• 75% or better in Algebra 2					
1	• Teach					

Honors Pre-Calculus		2403	Honors	1 Credit	5.0 Weight	Year		
Course Description		Honors Trigonometry/Pre-Calculus is a course designed for students planning to						
					us, notably, AP Calcu	1		
					polynomial, rational,			
		and logarithmic functions; trigonometric functions and identities; polar coordinates;						
	-	, .			calculus. Students v	_		
				, .	nce of mathematical p	atterns and		
	will become i	amiliar with th	ne fundamer	itals of pre-cal	culus.			
Prerequisites	• 90%	in Honors Alge	ebra 2					
	• 95% in Algebra 2							
	• Teacl	her recommend	dation					

CiHS Calculus		2313	CiHS	1 Credit	5.0 Weight	Year
1		arse for college-bound students expecting to major in business, the arts, or				
	related fields. It contains a thorough review of algebra 2 and differential calculus with					
	emphasis on problem solving rather than theory. This course may be scheduled					
	concurrently with Trigonometry/Analysis with teacher and counselor approval.					
Prerequisites	Successful completion of Algebra 2					
	Teacher recommendation					

AP Calculus AB		2423	AP	1 Credit	5.5 Weight	Year
Course Description					ne students' understar	
-	concept of ca	lculus and pro	oviding expe	erience with it	s methods and applic	cations. The
	course repres	ents a multi-pr	esentational	approach to ca	alculus with concepts,	results, and
	-	0 1	0	, ,	, analytically, and v	-
					ry important. Broad c	-
	, , ,		-		cus is neither manip	
				•	s, curves, theorems,	_
	v -	0.0		•	and teachers to re	
		0			unctions to confirm w	
					rpreting results. An	U
		_		0	ometry concepts will	-
		-		-	ng this course. As a co	-
				e the Advance	d Placement Exam in	May.
Prerequisites	• 90% in Honors Algebra 2					
	• 88%	in Honors Pre-	Calculus			
	Teacl	her recommend	dation			

AP Calculus BC	2430	AP	1 Credit	5.5 Weight	Year		
Course Description	Calculus BC is presented as a cohesive whole through the use of the unifying themes limits, derivatives, integrals, polynomial approximations, series, parametric and pol functions, and vectors. The course features a multi-representative approach to calcul and concepts, results, and problems expressed graphically, numerically, analytically and verbally.						
Prerequisites	<ul> <li>93% in Honors Algebra 2</li> <li>93% in Honors Trig</li> <li>Teacher recommendation</li> </ul>						

AP Statistics	2515	AP	1 Credit	5.5 Weight	Year	
Course Description	produced by technology w the Advance course also h An assignme complete ove Displaying Probability, T	y others and vill be emphasid Placement Eave the option ent involving the summer. Distributions, Tests of Signific	themselve zed throug exam in Ma to purchase basic statist Course un Normal cance, and A	s. Solving even hout the course by of the school e college credits tical concepts tits will include Distributions, Analysis of Vari	g, and interpreting (inferyday problems are. The student is expell year. Students enrors through Duquesne Lewill be required for E. Measures of Central Correlation and ance.	ad utilizing octed to take olled in this University.  students to 1 Tendency,
Prerequisites	• Succe	essful completi	on of Algeb	ora 2		

Analytics & Statistics i	in Sports	2516		1 Credit	NonWeighted	Year	
Course Description	This yearlong	g course will pr	ovide studer	nts the opportu	nity to challenge then	nselves with	
-	a math cours	e that forces th	em to think a	about math in	a way that none of the	eir previous	
	courses have	. One compon	ent of the co	ourse will be le	earning about advanc	ed statistics	
	that differen	t sports use, w	hat they mea	an, and how tl	ney are calculated. S	tudents will	
	learn to track	and compute s	statistics deri	ved from look	ing at box scores and o	drive charts,	
	as well as fro	om the study of	f video. The	other compon	ent of the course will	require the	
		-			ents will have to pr		
	understandir	ng of the mate	rial in writte	en form and o	orally through presen	tations and	
					n an interest in eithe		
			,		ging, way to connect t		
	expose themselves to thinking about mathematics in an entirely different setting.						
Prerequisites	• 11 <sup>th</sup> or 12 <sup>th</sup> Grade						
	• Succ	essfully comple	eted or are er	nrolled in Alge	ebra 2		



# Performing Arts



(Back to All Course List)

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

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

Cadenza Chorus		7501		1 Credit	NonWeighted	Year			
Course Description	performance performing n	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 expre feelings and emotions through mature interpretation of the written music. For occur, discipline and support of each member of the group and director must be i								
	including m interpretation enhance this	Students will develop correct singing technique in a group atmosphere. Reading skills, including melodic and rhythmic notation, sight reading skills, and intelligent interpretation of the musical style will be emphasized. On-line theory study will enhance this knowledge. This knowledge will be quizzed and graded. Solo and small ensemble opportunities will be available to advanced students.							
	Students will rehearse and perform a variety of styles of music in school and comperformances. Dress rehearsals and performances will be part of the grade. One highlights of the year is the SOUNDWAVES recital in the spring.  The chorus groups often take spring performance trips. Although studen								
	encouraged to go because they are educational and fun, they are not mandatory. In December, after the winter concert, auditions will be held to determine students moving								
		vel chorus gro				71			
Prerequisites	• Direc	ctor's signature			·				

Select Chorus		7505		1 Credit	NonWeighted	Year			
Course Description	The select chorus consists of mainly juniors and seniors who are deeply committed to choral study and performance. These students will be recognized as having good attitudes and work ethics. They will be expected to practice outside of class and will be encouraged to study privately.  Using the powerful medium of music students will be encouraged to express their feelings and emotions through mature interpretation of the written music. For this to occur, discipline and support of each member of the group and director must be in place.								
	vocal techniq There will be knowledge. present at all	Select chorus will study advanced theory, music history, music appreciation, correct vocal technique and sight reading in their pursuit of excellence in choral performance. There will be on-line theory study and quizzes to check understanding of concepts and knowledge. Since chorus is a performance based class, students will be expected to be present at all dress rehearsals and performances unless excused by the director. Select chorus has prescribed concert attire that is mandatory.							
	Students that desire to be in Select chorus audition in late December/early January of their 9th grade year or at a further advanced grade level.								
	encouraged Performance Students into	e chorus groups often take spring performance trips. Although students are couraged to go because they are educational and fun they are not mandatory. formance in more than one chorus is possible depending on the student's schedule. dents interested in this class should approach Mrs. Kipp to discuss audition occdures and times.							
Prerequisites	• An a	udition that in	cludes sight	reading, theor	y quiz and a vocal so	lo.			

Band		7511		1 Credit	NonWeighted	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 de cultural and se band is designed playing skills and performatikill while en	uring this time social context a gned to further are expected ance. Third an acouraging stu	e. Students and interpretar develop mas the studer defends to ass	will understan these selection arching and conts continue to ar band further ume leadershi	ice sessions and appear a piece based on the as by classifications. Soncert band skills. It strive for excellence a develops marching approles in ensembles and to participate in all	e historical, Second year ntermediate in ensemble and playing All music	
Prerequisites	• Audi	tion and/or D	irector's reco	mmendation f	for all band classes.		

Orchestra		7521		1 Credit	NonWeighted	Year
Course Description	musicians the of musical sty the alternative Students acquerepertoire.	e opportunity to opportunity to less, and to under the fiddling repuire musical listudents are electron musical listudents are electron musical listudents are electron musical listudents are electron musical perform musical listudents are electron musica	to explore the derstand the pertoire with knowledge axpected to a	e formal qualit aesthetic value continual stu and appreciat develop advar	its of all levels. This caries of music, to perform of music. Emphasis dy and reference to be ion by building their need skills that are natiques. Students are	em a variety is placed on the classics. r orchestral accessary to
Prerequisites	• Audi	tion and/or D	irector's reco	mmendation	for all Orchestra classe	es.

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

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

Modern & Jazz Dance	1	8041		1 Credit	NonWeighted	Year
Course Description	The course is designed to develop beginner-intermediate technique in both modern and jazz dance forms. Emphasis is on refining and enhancing technical awareness after being introduced to these forms in the Introduction to Dance class. The student will have opportunities to learn about movement elements, styles and principles of choreography.  Evaluation for the course is based on performance tasks and rubric assessments, daily class participation, selected response testing, open ended test, choreographic tasks. Videotaping and peer assessment will also be used to elevate progress. Students are responsible for a \$120 costume fee for Showcase.					
Prerequisites	<ul> <li>Intropre-a</li> <li>Depa</li> <li>All s</li> <li>tight</li> <li>Parti</li> <li>Be pl</li> <li>basis</li> <li>Thos</li> <li>place</li> <li>excus</li> </ul>	duction to Dan approval for the artment. tudents must d sdance wear cipate in the ar nysically able to e students with	ress in appro ress in appro must be pu nual arts sho perform in long term i	the opriate dance verthased by the nowcase and dr a highly inten	wear ( black leotards a student) ress rehearsal (three e se, physical class on a cries may be required ss for the duration of	evenings) a daily to be

Modern & Jazz Dance	2	8042		1 Credit	NonWeighted	Year		
Course Description	The course is	designed to	develop inte	ermediate tech	nnique in both mode	rn and jazz		
•	dance forms.	dance forms. Emphasis is on refining and enhancing technical performance at an						
	intermediate	level. The stud	dent will hav	e opportunitie	s to analyze moveme	nt elements,		
	styles and p	rinciples of c	horeography	and to crea	ite a performance c	omposition.		
	Evaluation fo	or the course is	based on pe	erformance tas	sks and rubric assessr	nents, daily		
	class particip	ation, selected	l response te	esting, open e	nded tests, choreogra	aphic tasks.		
	Videotaping	and peer asses	ssment will a	also be used to	evaluate progress. S	Students are		
	responsible fo	or a \$120 costu	me fee for Sh	nowcase.				
Prerequisites	• Mode	ern Jazz 1 and	have pre-app	oroval from de	partment			
•	<ul> <li>Appr</li> </ul>	opriate dance	wear (black	leotards and b	lack tights or Nike			
	pros.	dancewear p	urchased by	the student).				
	<ul> <li>Partie</li> </ul>	cipate in the ar	nnual arts sh	owcase and dr	ess rehearsal (three ev	venings).		
	<ul> <li>Able</li> </ul>	to physically p	perform in a	highly intense,	, physical class on a d	aily basis.		
	Students with long term illnesses or injuries may be required to be placed into							
	an ac	an adapted physical education class for the duration of the medical excuse.						
	<ul> <li>Teacl</li> </ul>	ner Recommen	dation					

Modern & Jazz Dance	3	8043		1 Credit	NonWeighted	Year
Course Description	jazz dance for more advan- elements, st composition. Cunningham Evaluation for class particity Videotaping	orms. Emphas ced level. Th yles and prir A variety of d in modern to it or the course is pation, selected	is is on refir e student was neiples of clance techniq Luigi, Fosse s based on particular tresponse to ssment will a	ning and enhand will have oppositioned property (ues will be explained Tremaine erformance task esting, open ealso be used to	red technique in both ancing technical performance ortunities to analyze and to create a polored-ranging from C in Jazz.  Seks and rubric assession ded tests, choreograph evaluate progress.	movement performance Graham and ments, daily aphic tasks.
Prerequisites	<ul> <li>App: Pros</li> <li>Parti Be pl basis</li> <li>Stud</li> </ul>	ropriate dancedancewear p cipate in the ar hysically able to s. ents with long	wear (black ourchased by nnual arts sh o perform in term illnesse	leotards and b the student.) owcase and dr a highly inten	ne Department.  lack tights or Nike  ress rehearsal (three en  se, physical class on a  may be required to be paration of the medical	daily olaced into

Modern & Jazz Dance	Modern & Jazz Dance 4			1 Credit	NonWeighted	Year	
Course Description	This course of	offers the adva	nced dance	student/perfo	ormer the opportunity	y to further	
_	develop his/	her skill, techn	ique, choreo	graphic expert	ise, analytical reasoni	ng and peer	
	mentoring or	portunities. T	his course ac	commodates t	he needs of the few st	udents who	
	have higher-	level dance sk	ills when en	tering the dar	nce department at C.V	V. (students	
	who are exer	npt from Intro	to Dance in	their freshmar	n year). The student w	will work to	
	refine advan	ced dance tec	hniques and	l genres. The	e student will act as	a teaching	
					nere would also be a		
					by choreographing a s		
					professional dance to		
	choreograph	ers. Students a	re responsib	le for a \$120 c	ostume fee for Showca	ase.	
Prerequisites	• Mod	ern and Jazz D	ance				
-	<ul> <li>Appr</li> </ul>	Appropriate dance wear (black leotards and black tights or Nike					
		dancewear p		the student.)			
	• Teac	her recommend	dation				

Modern & Jazz Dance	5	8055		1 Credit	NonWeighted	Year
Course Description	develop his/ mentoring op of the few s department a student will as a teaching component r a self-directe teachers and These items i	her skill, technoportunities at students who at C.V. (student work to refine a sassistant/studequiring the student dance piece choreographer	ique, choreoga more adva have higher ts who exendovanced da lent choreogadent to wor and/or wors. All studentsed at the st	graphic expert nced level. The r-level dance npt Intro to Da nce techniques rapher, role m k independent king as an ap tts must dress i	ormer the opportunities, analytical reasonice course accommodations when entering ance in their freshmans and genres. The studodel, etc. There would of the class by chorprentice with professing a black leotard and se. Students are response.	ing and peer es the needs of the dance in year). The dent will act ald also be a reographing sional dance black tights.
Prerequisites	• App: Pros	ern and Jazz D ropriate dance dancewear p her recommend	wear (black urchased by		lack tights or Nike	

Majorettes	8051		1 Credit	NonWeighted	Year
Drill Team					
Dance Troupe					
<b>Dance Production</b>					
Course Description	This course is designed for routines for each season. To opportunity to practice with During the first nine-week band festivals and paradeclass or practices for Shoudition, and, if selected, Troupe will work to deveshows. Dance Troupe is a Competition and 1 Nation black tights or Nike Pros. addition to the regular schular that start in May and run the for 4 days. Costs for these	This course with the marchiperiod, the uns. During the wcase. All swill be schelled performants also a compensal Competition. These items is cool year, the surrough the surro	Il provide the aing band. The nit rehearses for second nine-vistudents intereduled by the ance skills and tition team. The nust be purchastudents in this mmer. Dance	majorettes and drill te class meets five (5) do reperformances at fooweek period, the unit ested in taking this cadvisor. Members of will participate in self-hey will compete at the student's of class will have summatroupe also attends a celebrate of the compete at the student's of class will have summatroupe also attends a celebrate of the class will have summatroupe also attends a celebrate of the class will have summatroupe also attends a celebrate of the ce	am with the ays a week. tball games, takes dance course must f the Dance veral dance 3 Regional ack leotard, expense. In her practices camp in July
Prerequisites	Audition & Recon	nmendation o	nly		

Introduction to Theatre	8100		1 Credit	NonWeighted	Year	
Course Description  An exploration that will cover both the technical and perform Tech theater studies will include production concepts a costumes, and make-up. Performance studies will include of acting, such as theater history, stage direction term improvisation exercises, monologues & scene work.					ots and design for light	ghting sets, to the basics
Prerequisites	<u> </u>					

Acting 1		8201		1 Credit	NonWeighted	Year	
Course Description	This course is for students who are interested in an acting career or who merely want to learn more about this art. Students will perform improvisations, work on monologues, scenes, and one act plays. Class presentations and videotaping will provide opportunities to develop creativity while supplying the student with immediate feedback about performance.						
Prerequisites	to perform ir number as d required to d	an acting pro	duction. She the instructed audition for	ould request for and high s	12. All students will or this class exceed a school principal, stude the class.	manageable	

Acting 2 & 3		8202		1 Credit	NonWeighted	Year
Course Description	course is for s more about the and one act of develop created performance. The course is to perform in number as definitions.	students who a nis art. Student plays. Class pa ativity while open to all stu an acting pro	re interested is will perfor resentations supplying t idents in gra duction. Sho the instructor	in an acting cam improvisation and videotapinhe student was des 9 through ould request for and high se	training in the art of Anreer or who merely vons, work on monologing will provide opposith immediate feed.  12. All students will or this class exceed a chool principal, studente class.	vant to learn gues, scenes, ortunities to back about be required manageable
Prerequisites		ng 1 and/or Int ition and teach				



# Physical Education



(Back to All Course List)

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

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

<b>Physical Education</b>		8032		.25 Credit	NonWeighted	Semester
**Required for 9th & 10th Grades						(4 days)
Course Description The curriculum focus for 9th and 10th grade Physical Education is lifetime fitness, spor					ness, sports,	
-	and physical activity. Activities will enable students to develop skills necessary to					
	maintain a healthy active lifestyle. The course is designed to enhance activity level,					
	develop positive attitudes, responsible habits, and exhibit good sportsmanship. Students					
	will have the opportunity to participate in; swimming, fitness, weight training,					
	recreational racquet sports, diamond sports, volleyball and ultimate Frisbee/razzle.					
Prerequisites	• Non	e				

Health (9th & 10th Grades)		8025		.25 Credit	NonWeighted	Semester (4 days)
Course Description	Chartiers Valley Health to learn about physical importance of making Students are encourage and applying prevental scenarios and understal mental health, mental school violence, nutrit sexuality, CPR, first Ai	l, mental ar g healthy of ed to devel tive strateg and the imp l disorders ion, physic	nd soci lecision op op ies. St act of healt al fitne	al aspects of hons that will litimal health the udents will conpersonal choice thy relationshipss, non-comm	ealth. Emphasis is plead to a higher quancough recognizing honect academic conteres. Units of study incips, abuse, bullying nunicable diseases, SI	opportunity laced on the ality of life. ealth issues at to real life lude; stress, prevention, DI's, human
Prerequisites	None					

Adventure Activities (	Adventure Activities (2 days)			.25 Credit	NonWeighted	Year
**11th & 12th Grades						(2 days)
Course Description	adventurous skills necessa activity leve sportsmansh fitness, ultim team buildin	activities and ary to maintain el, develop p ip. Students aate Frisbee, ar	physical act a healthy act positive atti will be offe chery, kayal prienteering,	tivity. Activitictive lifestyle. tudes, resporered a variety king/canoeing biking, recre	Education is lifetime fittees will enable students. The course is designed asible habits, and ex of activities to includational racquet sports.	to develop to enhance thibit good e: physical ng/hockey,
Prerequisites		& 12 <sup>th</sup> grade	id drug and	alconor unit.		

Lifetime Activities		8034		.25 Credit	NonWeighted	Year	
						2 Days	
Course Description	The curriculu	ım focus for <u>11t</u>	<u>th and 12th</u> gra	ade Physical E	ducation is lifetime fit	ness, sports,	
_	and physical activity. Activities will enable students to develop skills necessary to						
	maintain a healthy active lifestyle. The course is designed to enhance activity level,						
	develop positive attitudes, responsible habits, and exhibit good sportsmanship.						
	Students will be offered a variety of activities to include: physical fitness, volleyball,						
	tennis, recreational racquet sports (pickleball, badminton, and table tennis), diamond						
	sports, ultima	ate Frisbee/raz	zle football,	and drug and	alcohol unit.		
Prerequisites	• 11 <sup>th</sup> a	and 12 <sup>th</sup> grade s	students				

Drivers Theory		8027		.5 Credit	NonWeighted	Semester
					5 Days	
Course Description	This curriculum will develop the knowledge and attitudes necessary for safe driving					
	techniques. The <b>elective</b> course introduces students to the theory and practical					
	application of how to operate an automobile, rules and regulations. Curriculum is in					
	accordance with PA driver guidelines and information from the PA driver's handbook;					
	including strategies for identifying risks, of driving and their consequences.					
Prerequisites	• 10 <sup>th</sup> ,	$11^{th}$ , and $12^{th}$ g	rade student	ts		

Sports Officiating and		8036		.5 Credit	NonWeighted	Semester
<b>Principles of Coaching</b>					(5 Days)	
Course Description	standards, ar course will p moral and et explore ways	nd best practice provide hands-o hical philosopl s to handle thes	es of the office on experience by along with se concerns.	ciating profess the working in the best practice At the conclusion	study the art, science ion across all levels of teams, combined with es from sport though ion of this course stud- tts official after they to	f sport. This h a study of t-leaders, to lents will be
Prerequisites		0 <sup>th</sup> , 11 <sup>th</sup> 12 <sup>th</sup> gra	ides			

<b>Partners in Physical E</b>	ducation	8038		.25 Credit	NonWeighted	Year		
•						(2 Days)		
Course Description	This course is designed for students who are interested in exploring a career path that							
_	involves working with students with special needs. The Partner in Physical Education							
	course (Part	ner PE) is an i	nclusive app	proach to phy	sical education that pai	irs students		
	with special needs with their general education peers (peer partner). The peer partner							
	demonstrates PE activities, motivates and supports the students with special needs to							
	fully participate in PE class. The activities are designed to help promote leisure-time							
	activities and awareness of the importance of good personal fitness. Activities include							
	but are not limited to weight training, racquet sports, fitness, diamond sports, kayaking,							
	swimming and team building.							
Prerequisites	• 11 <sup>th</sup>	12 <sup>th</sup> grades						

Dance							
Course Description	,				ing Arts section of th ourse numbers and pr		
	Dance will meet PE requirements for all grade levels.						
Prerequisites	<ul> <li>All grad</li> </ul>	le levels					



## Science



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

Biology Lab	3221		1 Credit	NonWeighted	Year	
Course Description	living things biology, such homeostasis and ecology, understand a through the t This course is	. The emphasing as basic biologand transport, Students will and apply their use of case study intended for several states.	is for the coungical principolar growth work indepolar skills. Appolars, role playstudents who	urse is on the ples/cells, che and reproduct bendently, in solication to reallys, hands on a portion may or may an another the solication to may or may an another the solication to may be may or may an another the solication to	a solid foundation of big ideas and unifying ideas and unifying ideas and unifying ideas and larged and larged world concepts are extivities and laborator not be college bound a higher level science extinguished and science are science and science and science and science and science are science and science and science and science are science and science and science and science are science as a science and science are science as a science and science are science as a science are science as a science and science are science as a science are sc	g themes in oenergetics, of evolution te groups to emphasized ry exercises.
Prerequisites	None	9				

themes in biology. Topics include basic biological principles/cells, the chemical basis life, bioenergetics, homeostasis and cell transport, cell growth and reproductic genetics, ecology, and evolution. It is a rigorous course that requires daily reading at review. Students will work both independently and in groups to apply biologic concepts. The course incorporates hand-on activities, role plays, and laborate exercises when appropriate. This course is intended for students that are high	Honors Biology		3133	Honors	1 Credit	5.0 Weight	Year		
Prerequisites • 93% in 8th grade science	Course Description	the study of living things. The framework for the course is on the big ideas and unifying themes in biology. Topics include basic biological principles/cells, the chemical basis of life, bioenergetics, homeostasis and cell transport, cell growth and reproduction, genetics, ecology, and evolution. It is a rigorous course that requires 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.  • 93% in 8th grade science							
Teacher recommendation	Prerequisites		O						

<b>Biological Application</b>	ıs	3222		1 Credit	NonWeighted	Year
Course Description	explore the contraits of bact biotechnolog order to obseunderstand tappreciate the	liversity of life ceria, viruses, py. The studer the various the complexity is role of biodi	on Earth. To protists, fund the will part of life. The versity, as we will be a second to the control of life.	The emphasis of gi, plants, and icipate in varie and will also topics will alwell as the imp	ds on basic biological of the course is to involve animals, as well as tous laboratory investintegrate current even low students to undesportance of biological ts who may or may not to the contact of the course o	the role of tigations in the to better erstand and diversity in
Prerequisites	• Biolo	gy Lab or Hon	ors Biology			

<b>Applied Chemistry</b>	3321 1 Credit NonWeighted Year						
Course Description	This is a 1st y	ear chemistry o	course intend	ded for studen	ts planning to pursue	careers in a	
•	non-science r	non-science related field. This course provides students with an understanding of basic					
	principles of	chemistry thro	ugh classroo	m lectures and	l discussions, online a	ssignments,	
	classroom ac	tivities, small	scale labs a	ind research a	ssignments. This co	urse should	
	contribute to	the developme	ent of the stud	dent's ability to	think clearly and to e	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, slower pace, the minimal level of						
	mathematica	l analysis requ	ired and the	nature and va	ariety of experiments	done in the	
	laboratory. T	Copics covered	in this cou	ırse are dime	nsional analysis, ma	tter, atomic	
	structure, no	menclature, rea	actions, stoic	hiometry, and	gas laws.		
	This course does not meet the prerequisite requirement for Advanced Placement						
	Chemistry.						
Prerequisites	• 70%	or better in Alg	gebra 1 OR sı	uccessful comp	oletion of Biological A	pplications	

Chemistry w/ Lab		3331		1 Credit	NonWeighted	Year		
Course Description	This is a 1 <sup>st</sup> year chemistry course intended for students planning to attend college in non-science related field. This course provides students with an understanding of basi 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 law							
Prerequisites	• 80%	in Biology OR : in Algebra 1 <b>A</b> her Recommen	<b>ND</b> 70% or b	0.	etry			

CiHS Chemistry		3340	CiHS	1 Credit	5.0 Weight	Year		
Course Description	semester coll college in a s understandir discussions, contribute to ideas orally courses by mathematica courses by the are at college atomic struct	ege level chem cience or non-sing of basic p classroom act the developme and in writing the depth and lanalysis require students. The level. Topics ture, nomencla	istry course science relaterinciples of the student	and is intende ed field. This of chemistry the laboratory to dent's ability to y and logic. The of topics addragater time cord d variety of exi- this course a dometry, reaction	course that is equival d for students planning ourse provides students planning ourse provides studentough classroom leechniques. This course of think clearly and to enis course differs from the sessed, fast pace, his miniment then all other periments done in the periments done in the rematter, dimension ons, solutions, therm anding, molecular geometric different productions.	ents with an ectures and arse should express their m the other gh level of her first year e laboratory hal analysis, ochemistry,		
	Since this course is articulated through Duquesne University, there is a fee involstudents who want to earn 5 college credits. CIHS Chemistry is highly recomm for students taking AP Chemistry.							
Prerequisites		in Honors Biol	0.	0,				
		or better in Alg		88% or better	in Geometry			
	• Teac	her Recommen	dation					

AP Chemistry		3341	AP	1 Credit	5.5 Weight	Year			
Course Description	This <b>elective</b>	course is a	2 <sup>nd</sup> year A	dvanced Place	ement chemistry cou	ırse that is			
_	equivalent to	two semester	rs of college	level chemist	ry and is intended f	or students			
	planning to a	planning to attend college for chemistry, engineering, medical fields or other science							
	related areas	related areas in college. Laboratory work is an integral part of the course. This course							
	provides the	provides the rigorous training needed for success on the AP chemistry test and SAT II							
	,	,			ribute to the develop				
	student's abi	student's ability to think clearly and to express their ideas orally and in writing with							
	,	0	0		es a large time commi				
		-			ents prepared for the				
				•	dents are expected to				
					g and assignments a				
					t in a grade penalty				
					penalty. Topics cov				
					s of atomic structur				
	bonding, intermolecular forces, chemical kinetics, thermodynamics with								
		stry, equilibriu							
Prerequisites	• 70% i	in CIHS Chemi	istry or 90%	in Chemistry v	v/Lab				

Anatomy & Physiology		3350		1 Credit	NonWeighted	Year			
Course Description	This <b>junior</b> a	nd senior elec	tive course	is designed to	be a rigorous, in dep	oth study of			
-	human anato	human anatomy and physiology. The structure, function and imbalances (diseases) of							
	body systems will be studied including skin, musculoskeletal, nervous, endocrine,								
	cardiovascular, blood, respiratory, digestive and the special senses. This course would								
	be recommer	ded for studen	ts that are in	terested in pur	suing a career in the n	nedical field			
	such as phy	sicians, physic	ian assistant	ts, nurses, me	dical technologists, 1	paramedics,			
	scientists, ph	ysical therapist	ts, occupation	nal therapists,	geneticists, technician	ns, forensics			
	and bioinform	natics. This co	urse is not a	replacement f	or AP science courses				
Prerequisites	Successful completion of Chemistry								
-	Teacher recommendation								

Practical Physics		3421		1 Credit	NonWeighted	Year		
Course Description	This is a first	year Physics co	ourse intend	ed for student	s 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 f	orces is studied	d. These top:	ics lead to the	investigations of vario	ous forms of		
	energy such a	as light, sound,	, electricity, a	and magnets.				
Prerequisites	• Succe	essful completi	on of Honor	s Geometry or	75% or higher in Cor	nbined		
-	Geor	netry						
	• Com	pleted chemist	ry					
	• Teac	her Recommen	dation					

AP Physics 1		3441	AP	1 Credit	5.5 Weight	Year	
Course Description	Advanced Placement Physics 1 is a first year physics course that is equivalent to a first semester college course in algebra-based physics. This course will focus on students problem solving and lab skills. Students will cultivate their understanding of Physics through inquiry-based investigations while integrating technology into the laboratory environment. Topics covered will be Newtonian Mechanics (including rotationa motion), work, energy, power, mechanical waves, sound and introduction to simple circuits.						
Prerequisites		Chemistry or		Chemistry			
	<ul> <li>Teacl</li> </ul>	ner recommend	dation				

AP Physics 2		3445	AP	1 Credit	5.5 Weight	Year	
Course Description	Advanced Placement Physics 2 is a second year elective physics course that equivalent to a second semester introductory college-level physics course. This cour will focus on students' problem solving and lab skills. Students will cultivate the understanding of Physics through inquiry-based investigations as they explore top such as fluid statics and dynamics; thermodynamics with kinetic theory; PV diagramand probability; electrostatics; electrical circuits with capacitors; magnetic field electromagnetism; physical and geometric optics; and quantum, atomic, and nuclein physics.						
Prerequisites		essful completi her Recommen		ysics 1 or 90%	in Practical Physics		

AP Physics C: Mechanics		3450	AP	.5 Credit	5.5 Weight	Semester			
Course Description	based, colleg specialize or as kinematics and linear m	The Physics C: Mechanics <b>elective</b> course is equivalent to a one-semester, calculus based, college-level physics course. It is especially appropriate for students planning t specialize or major in physical science or engineering. The course explores topics suc as kinematics; Newton's laws of motion; work, energy and power; systems of particle and linear momentum; circular motion and rotation; and oscillations and gravitation introductory differential and integral calculus is used throughout the course.							
Prerequisites	<ul> <li>Successful completion of AP Physics 1</li> <li>Successful completion of AP Calculus or currently enrolled</li> </ul>								

AP Physics C: Electricity and		3455	AP	.5 Credit	5.5 Weight	Semester		
Magnetism								
Course Description	Advanced Placement Physics C: Electricity and Magnetism is an elective one-							
	semester, calculus-based, college-level physics course, especially appropriate for							
	students planning to specialize or major in physical science or engineering. The course							
	explores topics such as electrostatics; conductors, capacitors, and dielectrics; electric							
	circuits; mag	netic fields; and	d electromag	netism. Introd	ductory differential ar	nd integral		
	calculus is us	sed throughout	the course.					
Prerequisites	Successful completion of AP Physics 1							
•	<ul> <li>Succ</li> </ul>	essful completi	on of AP Ca	lculus or curre	ntly enrolled			

AP Biology		3442	AP	1 Credit	5.5 Weight	Year			
Course Description	The <b>Advance</b>	ed Placement B	Biology cours	se is an <b>electiv</b> o	e designed to be the e	quivalent of			
•	a college biology course usually taken by biology majors during their first year of college.								
	The course aims to provide students with the conceptual framework, factual knowledge,								
	,	and analytical skills necessary to deal critically with the rapidly changing world of							
	biology. The curriculum is built around the four big ideas in AP Biology. They include								
	1.) The process of evolution drives the diversity and unity of life. 2.) Biological systems								
		utilize free energy and molecular building blocks to grow, reproduce and maintain							
					rieve, transmit and				
			_	, ,	stems interact. These s	2			
					sion homework and				
	_		-	-	extensive readings in	biology and			
		to take the AP							
Prerequisites	• Succe	essful completi	on of Biolog	y and concurre	ently enrolled or com	pletion of			
	Cher	nistry							
	• Teac	her Recommen	dation						

<b>Principles of Biomedia</b>	cal Science (PBS)	3355	PLTW	1 Credit	5.0 Weight	Year		
Course Description	curriculum. This rigo may be interested in to <i>physicians</i> , <i>physician</i>	·						
	and various health hypercholesterolemia death of a fictional pe might have prolonge metabolism, inherita	d the use of the biological conditions a and infectors and the personce of transcriculum, the relation urse is de	of computer all systems. See including actions disease investigate son's life. Kenits, feedball Engineering onship of see signed to p	science, mat Students invo heart disea ise. They det elife-style cho ey biological ck systems a ing principle tructure to forovide an or	hematics, and informatestigate the human boase, diabetes, sickle-cermine the factors that pices and medical treat concepts including hand defense against including the designation are incorported.	ation theory ody systems cell disease, at led to the atments that comeostasis, disease are gn process, rated in the urses in the		
Prerequisites	Science teach	er or scho	ol counselo	r recommen	dation			

<b>Human Body Systems</b>	(HBS)	3360	PLTW	1 Credit	5.0 Weight	Year
Course Description	This is the 2 curriculum. Tompleted P medical field paramedics, technicians, f  In the Huma systems as the human be muscle move action, studer real world campsteries. Stopen-ended documentation	This is a rigoro rinciples of Bi- including phy scientists, placer and bi- orensics and bi- n Body System ey explore ide Students designed, and use dement, reflex and sees, and often cudents practical projects and on, communication.	us elective of comedical Scricians, physical there io information of the comment	course offered ience and are sician assistan rapists, occups.  arse, students nunication, ponts, investigate on software to y action, and on a skeletal Me of biomedicolving with stream that require the profession.		ons of body tection, and functions of ions such as g science in a interesting live medical progress to planning,
Prerequisites		pletion of Prind her recommend	-	medical Scienc	e with a minimum of	70%

Medical Interventions		3365	PLTW	1 Credit	5.0 Weight	Year		
Course Description	This is the t	This is the third course offering in the Project Lead the Way Biomedical Sciences						
•	curriculum.	curriculum. This rigorous <b>elective</b> course is offered to 11 <sup>th</sup> and 12 <sup>th</sup> grade students that						
	have complet	ted Principles o	of Biomedica	l Science and I	Human Body Systems	3.		
	In Medical In	In Medical Interventions, students follow the life of a fictitious family as they investigate						
	how to preve	how to prevent, diagnose, and treat disease. Students explore how to detect and fight						
	infection; screen and evaluate the code in human DNA; evaluate cancer treatment							
	options; and	prevail when	the organs o	of the body be	gins to fail. Through	real-world		
	cases, studen	ts are exposed	to a range of	f interventions	related to immunolo	gy, surgery,		
	genetics, pha	rmacology, me	dical device	s, and diagnos	tics.			
Prerequisites	• Com	pletion of Princ	ciples of Bio	medical Scienc	e and Human Body S	ystems		
-	with	a minimum of	70%					
	• Teacl	her recommend	dation					
	• May	be taken concu	ırrently with	Biomedical Ir	novation			

<b>Biomedical Innovation</b>	ì	3370	PLTW	1 Credit	5.0 Weight	Year	
Course Description	In this capstone <b>elective Project Lead the Way</b> course, students apply their knowled and skills to answer questions or solve problems related to the biomedical science. Students design innovative solutions for the health challenges of the 21st century as the work through progressively challenging open-ended problems, addressing topics so as clinical medicine, physiology, biomedical engineering, and public health. They have the opportunity to work on an independent project and may work with a mentor advisor from a university, hospital, physician's office, or industry. Throughout course, students are expected to present their work to an adult audience that include representatives from the local business and healthcare community. (PLTW website 2016)  • Principles of Biomedical Science and Human Body Systems						
Prerequisites	• Curr		or completio		Body Systems nterventions with a m	nin of 70%	



## Social Studies



#### (Back to All Course List)

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

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

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

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

Development of the U	nited States	4000		1 Credit	NonWeighted	Year	
Course Description	This 9 <sup>th</sup> grade required course in social studies is a survey of United States history from 1800-1945. The century and a half is a pivotal period in our history when we developed as a world power. Students will examine the consolidation of the United States after the American Revolution, the epic struggle over the issue of slavery leading to the Civil War, the growth of the country through immigration, industrialization, urbanization, and the conquering of the frontier. Then, students will study the conflicts of the late 19 <sup>th</sup> (Spanish-American War) and early 20 <sup>th</sup> (World War I) centuries that catapulted the nation onto the world spotlight. The study ends with examining the two major						
D	challenges to the War II. Student based assignm course active l	the American s ents will learn t nents, become i	tate in the to take not involved in	20 <sup>th</sup> century, es, write subs n seminars, ar	with examining the the Great Depression tantive essays, comp nd other activities that at a moderate pace.	and World lete project-	
Prerequisites	• None						

Honors - Development of the United States		4002	Honors	1 Credit	5.0 Weight	Year	
	T						
Course Description	This require	ed 9th grade o	course provi	ides students	the opportunity to	study the	
-	development of the United States at a highly accelerated pace. The same years and						
	content described above will be the material for the course. Students in this course are						
					ady is rigorous and tal		
	of the compl	ex concepts in	American h	istory. Studer	nts will also be challer	nged by the	
	high expecta	tions of the Col	lege Board.				
Prerequisites	85% or better in 8 <sup>th</sup> grade Social Studies						
•	• Teac	her recommend	dation				

World Cultures		4005		1 Credit	NonWeighted	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.								
Prerequisites	• None	9							

<b>Honors World Culture</b>	es .	4006	Honors	1 Credit	5.0 Weight	Year		
Course Description	Various 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% • 90%	in Honors Ame Advanced Am her recommend	erican Cultu erican Cultu	res				

Contemporary US/Global Studies		4010		1 Credit	NonWeighted	Year		
Course Description	This course w	This course will guide students from the beginning of World War II through the						
	early 21st ce	ntury. Stude	ents will e	xamine the p	political, economic,	social and		
	cultural deve	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						
	-		-		toward equal rights			
					ates as a major world			
			1		al government and fe			
		0			idual and the state.			
				-	understanding of the			
					ecognize patterns of i			
	and understan	d the impact	of events on	in the United S	States in an interconne	ected world.		
Prerequisites	None							

Shaping of the Modern	n World	4345		1 Credit	NonWeighted	Year			
Course Description	This College	in the High	School elect	ive course is	a study of the world	of the 20th			
_	•	century and into the 21st century. It will examine the forces and shaping agents that have							
	1	0		0	the United States exp				
					intense study of the l	,			
	0				standing of their owr				
	have the kno world.	have the knowledge and skills to be able to project the foreseeable future of the modern world.							
	Students will be exposed to rigorous primary sources, assignments and thinking that they will experience in college. "Blue book" essays are a common assessment that are used in colleges.								
	Since this co	arse is articulat	ed through l	Duquesne Uni	versity, there is a fee i	involved for			
	students who want to earn college credits. Students may obtain three college credits.								
Prerequisites	• 85%	in Advanced o	r Honors So	cial Studies					
_	<ul> <li>Teac</li> </ul>	her recommen	dation						

AP U.S. Government a	AP U.S. Government and		AP	1 Credit	5.5 Weight	Year
Politics						
Course Description	government general conc examples. T and politics to consequence College-level	and politics in epts used to i he institutions, will be studied. s, and the structures and other texts are texts.	the United S nterpret our, groups, bel In addition cture and pr er college-lev	tates. This <b>ele</b> r political system pol	is an analytical per ctive course includes tem and the analysis that constitute U.S. a overnment, political be ur government will be tre used in the class.	the study of of specific government ehavior and e reviewed. Preparation
	for the annual A.P. exam, which is held in May, is an integral part of the class.					
Prerequisites	• 11 <sup>th</sup> 6	and 12 <sup>th</sup> grade				

AP Psychology		4347	AP	1 Credit	5.5 Weight	Year	
Course Description	Psychology is the scientific study of the human mind and behavior. The purpose of Advanced Placement/College in the High School elective course is to further acquastudents with the field of psychology, promote critical thinking skills, explore crecultural perspectives, analyze popular media claims, and examine publish psychological research. The course is a combination of lecture, lab activities, cooperate activities, research essays, and presentations. Sample topics include personal development, research, abnormal psychology, memory, and learning. Students we elect to purchase credits through the University of Pittsburgh will complete for quarterly exams and a cumulative final. Students who do not purchase the CiHS creditare expected to take the AP Psychology exam at the conclusion of the course.						
Prerequisites	<ul><li>85%</li><li>85%</li></ul>	in Psychology in AP United S in CIHS Shapii her Recommen	States History ng of the Mo	,			

<b>AP United States Histo</b>	ory	4348	AP	1 Credit	5.5 Weight	Year
Course Description	Advanced P	lacement U.S.	History (AF	PUSH) is a rig	orous college-level i	ntroductory
_			-		natic, intellectual, cult	
		•	-		H is arguably one o	
			-		Board. As a result, a	-
		1 1	1 ,	0	evel textbook is suppl	-
	1 2	•	0	nificant outsid	e reading and assig	nments are
	required for	success in this	course.			
				-	nts develop critical th	0
		0	•		y with the complex	-
					of topics, discussions	and tempo
					college level courses.	
			year with a N	Jational Exam	from College Board is	n May.
Prerequisites		and 12 <sup>th</sup> grade				
	• 90%	in an Honors c	ourse or			
	• 95%	in an Advance	d social stud	ies		

Psychology		4405		1 Credit	NonWeighted	Year			
Course Description	This <b>elective</b> course introduces the field of psychology and its basic concepts, theories, research methods, and contributions to the understanding of human behavior. Topics include scientific methods in psychology, biological psychology, sensation and perception, states of consciousness, learning, memory, cognition and language. This course will challenge students to use their metacognitive abilities in order to develop a meaningful and useful understanding of their sense of self.								
Prerequisites	• 10 <sup>th</sup> ,	11th and 12th չ	grade						

Economics		4406		1 Credit	NonWeighted	Year
Course Description	to the individual issues such a cycle. Macro policy, internative history of	dual and other some the law of subsection trade a law of economic issued at law of economic the some the some the economic the some the economic the some the economic the eco	economic sy apply and do aes will incl- nd compara nought as w	stems. Specificemand, factors ude money artive economic rell as current	can economic system c units will cover mic of production, and t nd banking, monetary systems. We will be economic issues.	roeconomic he business y and fiscal touching on The current
Prerequisites	• 11 <sup>th</sup> (	or 12 <sup>th</sup> grade				

Law and Government		4407		1 Credit	NonWeighted	Year	
Course Description	Law and Go	vernment, <b>an</b>	<b>elective,</b> is tl	he study of the	e fundamentals of ou	ır American	
•	government	along with a re	eview of our	justice system	. Essentially, the clas	s is divided	
	into two com	ponents: Civid	cs and Street	Law. With the	ne study of governme	nt, students	
	will learn why we have government, types of government, and characteristics and						
	principles of	democracy. St	udies will fo	cus on our U.S	. Constitution, specific	cally the Bill	
	of Rights, and	d how these rig	thts are exerc	cised every day	y.		
	of Rights, and how these rights are exercised every day.  The class will then transition into a study of our criminal justice system with a focus on our due process rights. The criminal justice process will be reviewed from arrest through sentencing. Guest speakers will be utilized throughout the school year to compliment the curriculum and a field trip to the Allegheny County Courthouse will allow students to witness our justice system in action. Throughout the school year, students are encouraged to be aware of current events which will be discussed in class.						
Prerequisites	• 11 <sup>th</sup> a	and 12 <sup>th</sup> grade					

AP Macroeconomics		4409	AP	1 Credit	5.5 Weight	Year		
Course Description	The goal of this <b>elective</b> 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 course. Summer reading and assignments are required. Failure to complete summer assignments will result in a weighted penalty.							
Prerequisites	• 11th • 90% : • 85% :	or 12 grade in Honors Wor in AP U.S. or C her recommend	ld IHS Shaping					

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



# World Languages



(Back to All Course List)

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

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

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

<sup>\* =</sup> New Course



French 1		5011		1 Credit	NonWeighted	Year	
Course Description	communicate emphasis place culture, include component. It addition, stude games, and pro- to incorporate Also, students	geared to the goon everyday to seed on the skill ling study of the Music and film ents also take pojects. Integrate authentic mater participate in	topics in less of listerne country a clips are lart in a vad Performatials, speak cultural e	well as the aca the present and ing, speaking as well as a unused to reinforce riety of creative ance Assessmenting opportunity experiences successing	ademic learner, stude and near future, with and pronunciation. init on Paris, is a very force concepts and slave activities, including the activities, including the activities and listening come the as making crêpes	ents learn to n particular The French y important kills too. In g role-plays, h every unit prehension. and croque	
	monsieur sandwiches, and learning about French holiday traditions. The course is proficiency-based, and students are expected to communicate as much as possible in French as well as understand and follow basic classroom directions in French.						
Prerequisites	• 75% ir	n 8 <sup>th</sup> Grade Fren	ch or Teac	her recommen	dation		

French 2		5012		1 Credit	NonWeighted	Year
Course Description	skills. Dialog	ues, pattern pr lacement and f	actice, and q	uestion-answe	ncy of previously men er exercises play an im into developing comp	portant
Prerequisites	<ul> <li>75% in French 1 (2<sup>nd</sup> semester)</li> <li>Teacher recommendation</li> </ul>					

French 3		5013		1 Credit	NonWeighted	Year
Course Description	This course continues to build proficiency in listening and speaking while increasir emphasis on reading and writing. Students write longer and more complex sentences well as short essays. More emphasis is placed on independent reading of authent French literature and non-fiction cultural pieces relating to French Africa, 19th & 20 century French art, French heritage and other topics. A film study is included at the level. Students use Integrated Performance Assessment lessons (interpretive reading interpersonal communication, presentational communication) to increase the proficiency by integrating reading, writing, listening comprehension and speaking. Ne grammar skills are introduced, but students are expected to apply skills already learner Students will participate in speaking proficiency assessments in accordance with the ACTFL proficiency guidelines.					
Prerequisites	<ul><li>75% in French 2 (second semester)</li><li>Teacher Recommendation</li></ul>					

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

German 1		5021		1 Credit	NonWeighted	Year
Course Description	This <b>elective</b> course is proficiency based in order to develop compunderstanding, speaking, and writing in German within a restricted area of version basic speech patterns are introduced and practiced orally. Students will the these new speech patterns and adapt them to varying situations. Basic concepts are introduced. The student must assume responsibility of self-disc self-direction in the classroom.					
Prerequisites	9th graders - 75% in 8th grade Modern Language class.					
_	<ul> <li>Teacl</li> </ul>	her recommend	dation			

German 2		5022		1 Credit	NonWeighted	Year
Course Description	This proficiency based full-year <b>elective</b> course continues to develop the I speaking and writing skills. Vocabulary is introduced more rapidly, and the ar controlled reading increases as the year progresses. Basic grammar concexpanded and completed. Conversation and other oral activities are stress student must assume the responsibility of self-discipline and self-direction classroom.					e amount of oncepts are ressed. The
Prerequisites	<ul> <li>75% in German 1 (2<sup>nd</sup> semester)</li> <li>Teacher recommendation</li> </ul>					

German 3		5023		1 Credit	NonWeighted	Year
Course Description	This full-year <b>elective</b> course continues to build proficiency in listening and spear while increasing emphasis on reading and writing. There is extensive building of a active and passive vocabulary. Grammar continues to be developed at an intermed level. Supplementary audio excerpts, videos, and websites reinforce situational Gervocabulary. The student must assume responsibility of self-discipline and self-direction the classroom.					ling of both ntermediate nal German
Prerequisites	• 75% in German 2 (2 <sup>nd</sup> semester)					
	Teacher Recommendation					

CiHS German 4		5024	CiHS	1 Credit	5.0 Weight	Year
Course Description	development and literary to cultural trend Since this cou	of oral and water of oral and water or oral and issues.	ritten skills. ammar in the	Students will r e context of situ Duquesne Uni	e is designed to coread and discuss select uations and readings, versity, there is a fee i	ted cultural and explore
Prerequisites	<ul> <li>80% in German 3</li> <li>Teacher Recommendation</li> </ul>					

Spanish 1		5108		1 Credit	NonWeighted	Year
Course Description	This is a full y	year <b>elective</b> co	ourse designe	ed for students	to acquire basic profi	ciency skills
1	in Spanish -	listening, spe	aking, readi	ng, and writir	ng. A content based a	approach to
		0	uced; knowl	edge of other s	subjects is reinforced	through the
	use of Spanis	h.				
	Please note: S test into Spar		re new to Ch	artiers Valley	School District have t	he option to
Prerequisites	• Stud	ents who did n	ot take Span	ish in Grade 8	at Chartiers Valley; o	or
•	Students with less than 75% in Grade 8 at Chartiers Valley Spanish; or					
	Students who are new to Chartiers Valley School District.					
	• Teac	her Recommen	dation			

Spanish 2		5110		1 Credit	NonWeighted	Year
Course Description	This is a full-year <b>elective</b> course that incorporates a mix of everyday conversational topics and content-based lessons connected primarily to English and Social Studies themes. An increase in language proficiency is accomplished through reading, writing, listening, and speaking practice.					
Prerequisites	• 75% seme	Grade 8 Spani	sh at Charti	ers Valley or S	Spanish 1 at Chartier	s Valley-2 <sup>nd</sup>

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

CiHS Spanish 4	<b>4</b> 5114			1 Credit	5.0 Weight	Year
Course Description	emphasis on listening for c mastery of es Hispanic cou Since this cou	extensive reactions extension sential grammantries are an ir	ling, writing and promot atical concep ategral part c ed through l	g, and commuring fluency in ots is expected. If the course. Duquesne Universe.	ers an advanced curri nication skills. There speech. An ability to c Historical and cultur versity, there is a fee i	is focus on lemonstrate al aspects of
Prerequisites	80% in Spanish 3					
	<ul> <li>Teacl</li> </ul>	her Recommen	dation			

<b>AP Spanish Language</b>	AP Spanish Language			1 Credit	5.5 Weight	Year
Course Description	greater profice resources in thematic unit Spanish Lan presentationa Connections, Language Le and universit	ciency and more meaningful sites will augmen guage, studental scenarios of Comparisons, arning in the 2 ty courses that	te accurate a tuations. Lis t and enhan ats will con within the and Comm 1st Century. focus on sp	pplication of lastening, speaking vocabulary nmunicate in five goal amunities) outling The course is eaking and wr	Language is to guide anguage skills by using, reading, and writing, reading, and writing and grammar acquist interpersonal, interpersonal, interpersonal int	ng authentic liting within lition. In AP pretive, and n, Culture, for Foreign year college guage at an
Prerequisites		in CIHS Spanis her Recommen				

Spanish Communication		5117		1 Credit	Unweighted	Year
through Contemporary Topics						
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-					
NEW	1				novels, and current	
					hinking and writing o	
	in this course	e will continue	to prepare s	tudents for pos	st-secondary educatio	n.
Prerequisites	75% in CIHS/Spanish 4 or Teacher Recommendation or					
1	• 75%	in AP Spanish	Language or	Teacher Reco	mmendation	



# Parkway West



### Career & Technical Center

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

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

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

Belmont Technical College Butler County Community College
California University Community College of Allegheny County

Empire Education Group ITT Technical Institute

New Castle School of Trades Pennsylvania College of Technology

Pittsburgh Culinary Arts Institute Pittsburgh Technical Institute Rosedale Technical Institute Triangle Tech. Inc.

University of Northwest Ohio

Scholarships from the above post-secondary institutes and from industry

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

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

#### Academic Courses Available at Parkway

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

Auto Body Repair	9113		4 Credits	NonWeighted	Year
	9313		3 Credits		
Course Description	The Auto Body Repair Education Foundation for repair and replace collision damage and also includes painting, analysis. Students gromputerized estimation a full-service auto book Level Paint and I-Carl	(NATEF) and pro- ement of damage replace quarter p , MIG welding, co- gain experience in ing, and auto detand by repair shop. So	ovides instructived automobile vanels, door skollision repair, a mixing and billing. Practicatudents have t	on in the most current parts. Students lear ins, and fenders. The frame straightening, a tinting paint, custor Il experience is provid the opportunity to ear	t techniques on to repair curriculum and damage on painting, ded through on PPG Blue
Prerequisites	• None	9			

Automotive Technology		9119 9319		4 Credits 3 Credits	NonWeighted	Year
Course Description	Foundation of through Auto Pennsylvania maintenance components, troubleshoot diagnostic ed Under the Astudents maintenance Service Exce (CCAR).	Technology is of (NATEF) and omotive Youth a State Inspect, repair, and and fuel and ing and engirquipment. Practionative You qualify to be earn certification (ASE), and the control of t	affiliated wi Educational tion License replacement d electrical ne performa ctical experi uth Education ecome an a	the National Arth all of the resumment of drive systems. Since via the rence is also ponal Systems (pprentice wor AYES, the Nath all of the rence is also ponal Systems (pprentice wor AYES, the Nath all of the rence is also ponal Systems (pprentice wor AYES, the Nath all of the rence is also ponal Systems (pprentice wor AYES, the Nath all of the rence is also ponal Systems (pprentice wor AYES, the Nath all of the rence is also ponal Systems (pprentice wor AYES, the Nath all of the rence is also ponal Systems (pprentice wor AYES, the Nath all of the rence is also ponal Systems (pprentice wor AYES, the Nath all of the rence is also ponal Systems (pprentice wor AYES, the Nath all of the rence is also ponal Systems (pprentice wor AYES, the Nath all of the rence is also ponal Systems (pprentice wor AYES, the Nath all of the rence is also ponal Systems (pprentice wor AYES, the Nath all of the rence is also ponal Systems (pprentice wor AYES, the Nath all of the rence is also ponal Systems (pprentice wor AYES, the Nath all of the rence is also ponal Systems (pprentice wor AYES, the Nath all of the rence is also ponal Systems (pprentice wor AYES, the Nath all of the rence is also ponal Systems (pprentice wor AYES)	utomotive Technology major automotive for Automotive major automotive for Automotive major automotive major automotive major automotive major automotive major automotive major automotive for Automotive major au	inufacturers to take the asic vehicle ms, chassis placed on the electronic repair shop. ip program, technicians. Automotive
Prerequisites	• None	2				

Construction Technolo	ogy Cluster	9137 9337		4 Credits 3 Credits	NonWeighted	Year
Course Description	First-year students spend nine weeks in the following four courses offered in the Construction Technology Cluster. They are <i>Building Construction Technology, Electri Systems Technology, Welding Technology, and Masonry.</i> Upon successful completion of the rotation, second-year students may choose to pursue certification in one of the following areas for the remainder of their time at PWCTC:					gy, Electrical letion of the
	Carpentry A student in the carpentry program will apply technical knowledge and skills to layout, fabricate, erect, install and repair structures and fixtures using hand and power tools, scaffolding, and specialty tools used in the construction trade. This program includes instruction in common systems of framing, construction materials, estimating, blueprint reading and finish carpentry techniques. Students will be given the opportunity to earn a 10-hour Occupational Safety and Health Administration (OSHA) Construction Card. Students have the potential to earn 17 certifications through NCCER.					
	of the electrical light industria wiring, maint programmable covered. Adhe	Systems Techal industry for all locations. The enance, and all locations to the location to the location and the location to the location and location are location.	nnology prog entry level on the basis of in trouble-shotontrols (PLO National Elec	employment in struction is in soting of elec C's) and howetric Code is en	students the integral of residential, commercial the layout, assembly, trical systems. Under transformers operanphasized throughousead to additional caree	cial, and/or installation, derstanding te are also t this course

such as an Electrical Drafter, Electrical Technicians, Electrical Engineers, Electrical Power-Line Installers and Repairers, Meter Readers/Utilities, Control and Valve Installers/Repairs, and Locomotive Engineers, to just name a few. Additionally, students will be given the opportunity to earn a 10-hour Occupational Safety and Health Administration (OSHA) Construction Card and may have a greater opportunity to join the International Brotherhood of Electrical Workers' Union (BAC) after graduation.

#### HVAC/R

Heating, Ventilation, Air-Conditioning, and Refrigeration, which has been newly renovated with state-of-the-industry equipment, provides instruction in basic and advanced electrical theory, troubleshooting and repair of residential and commercial heating, air-conditioning, and refrigeration systems. Students will be given the opportunity to earn a 10-hour Occupational Safety and Health Administration (OSHA) Construction Card.

#### Welding Technology

Welding Technology covers several types of welding by which metal may be bent, cut, or welded together, including oxy-fuel, shielded metal arc, gas metal arc, gas tungsten arc, flux core welding, carbon arc, plasma cutting, and oxy-fuel brazing. Students will learn the importance of industry safety, measuring instruments, hand tools, grinders, metallurgy, blueprint reading, electrical principles, layout/design, and fabrication, as well as how to prepare materials lists for cost estimates. Students have the opportunity to earn several American Welding Society (AWS) certifications.

Prerequisites	None
---------------	------

Cosmetology		9143		4 Credits	NonWeighted	Year
Course Description	aspects of has supported are anatomy and nails, and sea who practiced days a week. about interpetechnical known mannequins, program for course requiwhich encome who are ablest the following.  Nail Technic completed we to perform not completed we to perform not completed with the following at least one country and can be of qualified to	9343  plogy program pair, skin/nail band reinforced was physiology, as alp. This program real-world services and relation owledge and slattered years will rements to take a passes providing to take one or a specialized licetan License: The ail technology of the above licetampleted with the statements of the above licetampleted with the statements of the above licetampleted with the skin passes providing the statements of the above licetampleted with the skin passes providing the sk	eautification with theoretics well as structures in Parameters in Parame	3 Credits dents to perform, and personal background icture, function idents develop kway's salon, proach to teach ial attitude, and iques and abilial public. Stude portunity to exicensing example to the public for instruction in the public for in	em technical services in a maintenance. These including sanitation in, and disorders of the into well-rounded provided in the which is open to the hing and learning, study career fundamentals lities are practiced and dents who are able to arn 1,250 hours of states to be a licensed coror hair, skin, and nail in this program may compare the interpretation in the program in the program is the pro	ncluding all se skills are chemistry, e hair, skin, rofessionals, public two idents learn is along with distered on attend this re-regulated smetologist, is. Students shoose from and can be is qualified fully passed ired studies 's license is
Prerequisites	• None	e				

Culinary Arts		9161		4 Credits	NonWeighted	Year
	9361		3 Credits	C C		
Course Description	buffet, and a the operation restaurant en pastries and s many differe Arts Level I. and III. Seni have the op	la carte styles on and manager avironment to preselect meats are not types of cuis Second and the or students will	f food preparent of an irection of a	ration. Practic n-house, full-se Is and services nts learn to des ear students sp dents will adv apleted at least e National Re	ion in the preparation all experience is provided at experience is provided at experience is provided at experience in the control of the con	ded through beyond the store, where and prepare in Culinary rts Levels II ry Arts will
Prerequisites	• None	2				

Diesel Technology		9120		4 Credits	NonWeighted	Year
		9320		3 Credits		
Course Description	manufacturing maintenance, a military vehicl diesel equipme and maintain fundamentals Recovery Cert	g industries. In and overhaul es, trucks, tra ent industry e diesel equi of hydraulic ification. Stud ervice Excelle	n Diesel Tech of diesel po tins, buses, c expands, the pment will s and have dents can ear	mology, stude: wered equipn onstruction an demand for me continue to the opportuni rn certificatior	transportation, constructs will learn about the nent. Diesel engines and agricultural equipmechanics and technicial grow. Students will atty to earn an Air Construction of the National 109, Class I & III State	e operation, are found in ment. As the cans to repair I learn the conditioning Institute for
Prerequisites	• None					

<b>Graphic Arts &amp; Production</b>		9190		4 Credits	NonWeighted	Year
Technology		9389		3 Credits		
Course Description	individuals to commercial an graphic and composition, d techniques. En digital printing	apply technid industrial value printing equilibrial printing application of the printing application of the printing and the	nical knowle risual image quipment. S g and binder typographic d finishing t digital printi	dge and skills and print prod Students learn by as well as phe cal layout and echniques, ink ing with applic	uctional program the to plan, prepare, a ucts using mechanican desktop publishing otography and other design using computer and color preparationation of a wide varied el design.	and execute I and digital ng, layout, graphic arts er graphics, on. Students
Prerequisites	• None				_	

Health Occupations Technology		9173		4 Credits	NonWeighted	Year	
-		9373		3 Credits			
Course Description					portunity to participa		
	range of rea	l-world clinica	l and job sł	nadowing exp	eriences at many dif	ferent local	
	healthcare p	roviders. Clini	cal experier	nces may incl	ude: child care, long	term care,	
	emergency n	ursing, recover	y room nurs	ing, radiology,	, medical records, ope	rating room	
	observation,	pharmacy, phy	sical/occupa	ational therapy	y, and/or lab technicia	an. Students	
	will have the	opportunity to	o earn and c	omplete the A	merican Heart Associ	iation "CPR	
	for Healthcare Providers" certification and the following certifications in relation to the						
	Health Care industry: Pennsylvania State Nurse Aid Registry (C.N.A.). For first and						
	second year students, instruction begins with anatomy, physiology, and medical						
	0,	-	0		ice examinations, trea		
	patient care.	Personal Care	Home Direc	t Care Staff: Fo	or first and second ye	ar students,	

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

Cyber Security & Network Technology		9155 9355		4 Credits 3 Credits	NonWeighted	Year
Course Description	diagnostics. networking of TIA Server + learn networ or small offi	It begins with perating syste certifications a king concepts by	n Cisco IT ms. Students and then, the based on type or more com	Essentials, PC s initially preprough Cisco C ical networks toplex enterprise	d in networking and C Hardware and software for CompTIA A+CNA Discovery courthat one might encourse models. Finally, stations.	tware, and and Comp se, students ater in home
Prerequisites	• None	9				

<b>Public Safety Technolo</b>	Public Safety Technology			4 Credits	NonWeighted	Year
		9385		3 Credits		
Course Description	services, fired to successful in all public hazardous m judicial syste following cer Emergency M Vehicle Oper	fighting, law end of the safety areas. I safety areas. I safety areas. I safety areas. I safety areas and emerge of the safety at lateral areas. I safety at lateral areas are safety	nforcement, as program, so program, so nstruction is ng, pre-hospency dispatched and Basic (EVOC), Haza	and emergency tudents must it is provided in ital medical can ning. Students EMT-B), Basic Vardous Materia	ers relating to emerge y management service meet minimum profic disaster situations/m are, map reading, fired have the opportunity Vehicle Rescue (BVR), als Recognition and Id agement Agency certi	es. In order iency levels anagement, fighting, the to earn the Emergency lentification
Prerequisites	• None	9				

<b>Sports Medicine and</b>		9375		4 Credits	NonWeighted	Year	
Rehabilitation Therap	y	9376		3 Credits			
Technology (SMARTT	<b></b> )						
Course Description	The Sports Medicine and Rehabilitation Therapy Technology (SMARTT) Program						
	prepares stu	dents to work	in the field	of physical th	erapy, occupational t	herapy and	
	sports medic	cine. Students	will develo	p skills in pi	revention, diagnosis,	differential	
					ion of injuries and o		
	conditions. Students will learn the principles of developing a plan of care including:						
	evaluation, interventions (exercise, manual therapy, modalities and neuro re-education),						
	assessment, goal setting and discharge. Students will also learn how to develop a proper						
	diet for healthy individuals and tailor it for special populations through a						
	comprehensi	ve understand	ling of nutr	rition. Upon	successful completio	n, students	

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

Veterinary Assistant Technology		9193		4 Credits	NonWeighted	Year		
		9402		3 Credits				
Course Description	In the Veteri	nary Assistant	Technology	program stu	dents will learn to ke	eep medical		
_	records, sche	edule, offer cli	ent educatio	on, practice la	boratory 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, Non-Farm 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 Te	chnician, and \	Veterinary A	ssistant certific	cations.			
Prerequisites	• None	2		·	<u>-</u>			

(Back to All Course List)

Back to Main Menu



# **Chartiers Valley School District**

## **Board of School Directors**

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

## **Central Office Administration**

Johannah Vanatta, Ed.D., Superintendent Scott Seltzer, Assistant Superintendent Misty Slavic, Ed.D., Assistant Superintendent Regan Weldon, Director of Pupil Services

## **High School Administration**

Patrick Myers, Principal Tim Murray, Assistant Principal Meghan Watelet, Assistant Principal