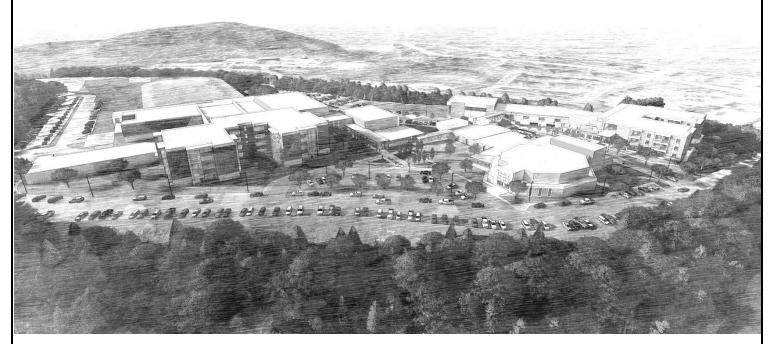
CHARTIERS VALLEY SCHOOL DISTRICT Inspiring excellence.



Chartiers Valley High School



Program of Studies 2019-2020



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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.



General Program Information



Graduation Requirements

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 2020, 2021 & 2022			

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

Typical Units	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.

Grading Scale

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

^{*}Advanced and Standard Courses are on the Standard Quality Point Scale

Weighted Courses

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	4409 AP Macroeconomics 7450		AP Digital Art (2D & 3D)
4410	AP Microeconomics	7460	AP Studio Art
4346	46 AP US Government & Politics 2635 AP Computer Science A (Java)		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) 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:

- Principles of Accounting (Carlow University)
- Communications/Rhetoric (University of Pittsburgh) Chemistry (Duquesne University)
- Calculus (Duquesne University)
- C++ (Duquesne University)
- Cybersecurity & the Law (*University of Pittsburgh*)
- AP Psychology (Dual Described University of Pgh)
- AP Statistics (Dual Described Duquesne University)
- Shaping of the Modern World (*Duquesne University*)
- French 4 (Duquesne University)
- German 4 (Duquesne University)
- AP Spanish 4 (Dual Described Duquesne University)
- All PLTW Courses (Rochester Institute of Technology)

Project Lead the Way (PLTW) CiHS Courses

5.0 Weighted Scale

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
1425	Honors World Literature			2403	Honors Pre-Calculus

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

<u>Advisory Program</u>

The Advisory program offers a positive resource that ensures that every student feels a sense of community and personalization at Chartiers Valley High School. Advisory is a proactive connection between teachers, students, school counselors, and administrators to provide thoughtful exploration for career and post-secondary opportunities. All high school students are assigned to a small group "Advisory" led by an Advisor/Teacher. Advisory groups meet once per month using an alternative bell schedule; student participation and attendance is expected.

The Pennsylvania Department of Education recently implemented changes requiring 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. The portfolio is documented digitally using *Naviance Student*. Grade-level designed lessons and activities are facilitated through school counselors, English and Social Studies department curriculum, and participation in the Advisory Program.



Scheduling



Scheduling Procedures

Scheduling for the following school year is completed early in the second semester. Current students (including rising freshman) will complete course requests utilizing the digital handbook and Infinite Campus online course registration feature.

Students and parents have the opportunity to discuss scheduling with school counselors during the scheduled classroom sessions and parent events.

Students will be permitted to make adjustments by submitting schedule change request forms according to the timetable that accompanies the scheduling information. All schedules are final on April 5, 2019.

Counselors will work with students with scheduling conflicts prior to the start of the school year.

After the deadline, changes to schedules will only be made if

- a computer scheduling error has occurred.
- you failed a course, need to repeat it, and the change did not occur.
- you desire 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.

Changes requested after the fifth day will result in a withdraw/fail grade and be placed on the student's report card and transcript. This grade will be factored into a student's grade point average and class rank. 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.

Scheduling Considerations

Students and parents are encouraged to become familiar with course descriptions found in this Academic Handbook. The student's scholastic performance, interests, aptitude and ability should also be considered.

- 1. Students must select and carry a minimum of seven subjects plus physical education.
- 2. Courses will be scheduled once during the school year; students are advised to select courses carefully.
- 3. Students must choose courses that meet the graduation requirements listed on page 2.
- 4. In selecting subjects that are continuous in nature, a typical minimum grade of 75% in the previous course is required.
- 5. 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.
- 6. Students who fail courses that are required for graduation are strongly encouraged to attend summer school or they may risk delaying graduation.
- 7. Requests for specific teachers, classes, lunch periods, or similar requests will not be approved.
- 8. Please contact your school counselor if additional supports are needed.

Course Waiver

A course waiver can be requested for a student who does not qualify and is not recommended for a course. The deadline to request a waiver is April 5, 2019. 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

The courses available during student registration are not guaranteed to be offered in the 2019-2020 school year. Specifically, factors such as school resources and lack of student demand for a particular course may result in the cancellation of the course for the 2019-2020 school year. Any course with fewer than sixteen registered students will be evaluated to determine if the course will be offered in the fall.



Grading and Reporting of Progress



Grade Reporting

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

The following procedures will be used to determine grades for each of the grading periods:

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

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 Schoology Login Site or go to www.cvsd.net, select "High School", and look in "Parent Resources".

Appeal of Grade (Board Policy #213)

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)

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.

<u>Class Rank</u> (2020, 2021 & 2022 Classes only)

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.



Student Services Center



School Counseling Department

School Counselor Information

For more detailed information about the School Counseling Department, please visit our website at http://www.cvsd.net - Select "High School", then "School Counseling"

SCHOOL COUNSELORS:

Lesley Kunkel (A - F) 412.429.2268 lkunkel@cvsd.net Leah O'Malley (G - N) 412.429.2629 lomalley@cvsd.net Danyelle Boyd (O - Z) 412.429.2271 dboyd@cvsd.net

School counselors work cooperatively with students, parents, community members, the faculty, administrators, the school nurse, and school psychologists. The primary responsibility of the counselors is to assist each student in identifying his/her individual needs and aptitudes and in planning an educational program that meets academic, personal/social, and career goals. The School Counselors are actively involved with the Advisory Program.

As a basis for all student services, counselors maintain the student's permanent record and cumulative file folder. The student and counselor can cooperatively explore plans and resources that are available to meet individual goals. The counselor provides information about the student's past and present achievement, interprets standardized test results, and encourages the student to research information about future schooling and employment.

Students are invited to contact counselors at any time for a meeting. Group workshop sessions are also held. These meetings may be used to disseminate information, to present resource speakers from work and higher education, or to meet the needs of students with similar interests.

The Student Services Center has the most up-to-date information on college and career planning. Resources include Naviance Student, financial aid, military, standardized testing, and general college and trade/tech information. Counselors are responsible for academic advisement, career exploration, conflict resolution, character education, and advisory program planning.

Counselors also help students with their academic, behavioral, attendance and family/community concerns. They will work with students and their families through a variety of supports through a formal intervention plan. They will utilize services such as one-on-one counseling, tutoring programs, mentor program, Student Assistance Program, pupil personnel, and other outside services.

Naviance Student (College/Career Online Portfolio)

Naviance is a web-based portfolio that helps you plan and organize your high school career, as well as keep track of your post-secondary application process. Student login credentials follow:

User Name: Student ID# (cafeteria #)

Password: Date of Birth (8 digits, ex:01051998)

Naviance Parent Login (https://student.naviance.com/chartiersvhs)

New Users: Choose "I need to register" | Registration Code: Your student's id# followed by the

first initial of their first and last name.

Career Exploration

Chartiers Valley High School students are encouraged to choose a competitive high school program in keeping with past experiences, current achievements, and future goals. Professional staff members work cooperatively with each student and parents to generate an individual, sequential program for each student. Students will be prepared to choose from employment, armed services, vocational/technical training, or college/university.

Career Exploration and Student Portfolios

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.

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 from the 9-11 grade band showing implementation of the student's individualized career plan

Students at the high school will maintain required evidence in the digital portfolio, Naviance Student. Activities are facilitated through school counselor guided lessons, English and Social Studies department curriculum, and participation in the Advisory Program.

Below are the scheduled lessons and activities completed at each grade level:

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		

Tutoring Services

Teacher-Student – It is always best to have your son or daughter meet with his/her teacher regarding concerns for learning in the class. A student may speak to his/her teacher to set up an individual or series of sessions for tutoring.

- Academic Support Program Academic support is available after school on a limited basis. This program is designed to give additional support to students in a specific content area after school.
- Outside Services There are various outside clubs and agencies that provide tutoring services. Please
 contact your school counselor or have you son or daughter stop in the Student Services Center to get
 information.



Engineering Academy



Engineering Academy Requirements

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

Year One

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

Required Engineering Classes

•	Introduction to Engineering Design (IED)	Full Year	PLTW

Applied Engineering
 Full Year

Year Two

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

Required Engineering Classes

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

Year Three

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

Required Engineering Classes

•	Engineering Design and Development	Full Year	PLTW
•	Product Development	Full Year	
•	Engineering Elective		

Engineering Electives

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

Engineering Academy Certificates

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

Career Interests

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

Engineering Certificate

- Drawing and Design
- Materials
- Modern Infrastructure
- Construction Systems
- Applied Engineering
- 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
- Drawing and Design
- Product Development
- Mass Production

Architectural Design and Modeling Certificate

- Drawing and Design
- CADD2

Materials

• IED

• CADD 1

• CEA

Mechanical Design and Modeling Certificate

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



Courses of Study



	Applied	Engir	neering & Technolo	gy (A	AET)
6811	Engineering 1 Intro to Engineering Design	6601	Manufacturing Tech 1 Materials & Construction	6503	MMT 3A Advanced Graphic Design & Photography
6801	Engineering 2 Principles of Engineering	6602	Manufacturing Tech 2A Mass Production	6508	Advanced Video Broadcasting 3
6611	Engineering 3 Computer Integrated Manufacturing	6302	Manufacturing Tech 2B Metals & More	6800	MakerLab@AET
6815	Engineering 4 Engineering Design & Development	6605	Manufacturing Tech 3 Product Factory	6821	Computer Assisted Design 1 (CAD1)
6825	Environmental Sustainability	6501	MMT 1 VisCom & Video Basics	6822	Computer Assisted Design 2 (CAD2)
6802	Civil Engineering & Architecture	6502	MMT 2A Graphic Design & Photography	6301	Transportation Systems
6612	Digital Electronics	6506	MMT 2B Intro to Film Studies & Media Production	6813	Robotics
			Art		
7101	Art 1 (9-10)	7400	Art 4	7480	Advanced Digital Art & Design
7102	Art 1 (11-12)	7445	Honors Studio Art	7455	Honors Digital Art
7200	Art 2	7460	AP Studio Art	7450	AP Digital Art
7300	Art 3	7475	Digital Art & Design	7481	GD3: Character & Graphic Development
			Business		
6010	Introduction to Accounting	6050	Introduction to Business Concepts	6065	Marketing Dynamics
6055	Accounting 1B	6070	Business Law	6087	GD3: Advanced Game Marketing
6005	Financial Accounting	6060	Design, Multimedia, & Web Technologies	6009	Succeeding in the World of Work
6051	Foundations of Personal Finance	6015	CiHS Principles of Accounting		
	Career &	Comr	nunity Learning Oppo	ortuni	ities
6092	Peer Learning Assistant	6091	Internship/Career Experience	6090	Work Experience
		C	Computer Science		
6062	AP Computer Science Principles	2653	CiHS C++	2650	Introduction to C#
2635	AP Computer Science A	6020	CiHS Cybersecurity & the Law	2612	Introduction to Computer Programming
2613	GD3: Game Development				

	English							
1111	English 9/Composition 1	1322	American Literature	1502	CiHS Communications/			
			Composition 3/11		Rhetoric			
1131	English 9 Advanced/	1325	Advanced Language &	1532	Journalism/Yearbook			
	Composition 1		Composition/11					
1132	Honors English	1350	AP Language &	1542	Yearbook Production			
	9/Composition 1		Composition					
1211	English 10/ Composition 2	1422	World Literature	1360	AP Seminar			
1001	F 1: 1 10 A 1 1/	1.405	12/Composition 4	1065	ADD 1			
1231	English 10 Advanced/	1425	Honors World Literature	1365	AP Research			
1000	Composition 2	1055	ADLitomatura ((F0(MMT 2D (Introduction to Film			
1232	Honors English 10/	1355	AP Literature &	6506	MMT 2B (Introduction to Film Study & Media Production)			
	Composition 2		Composition		Study Giviedia Froduction)			
		Family	& Consumer Science					
8511	Introduction to the World	8501	Child Development and	8506	Early Childhood Practicum			
	of Food and Nutrition 1		Family Relations		2			
8512	Ethnic and Regional	8505	Early Childhood Practicum	8508	Primary School Practicum			
	Cuisine and Nutrition 2		1					
			Mathematics					
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					
2143	Honors Algebra 2	2403	Honors Pre-Calculus					
		I	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					
		Pł	nysical Education					
8032	Physical Education	8034	Lifetime Activities	8038	Partners in Physical			
	(4 days)		(2 days)		Education (2 Days)			
8025	Health (4 days)	8027	Drivers Theory (5 days)		Dance (See Performing Arts)			
8033	Adventure Activities	8036	Sports Officiating and		, , , , ,			
	(2 days)		Principles of Coaching					
	/							

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

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

	World Languages									
5011 French 1 5022 German 2 5112 Spanish 3										
5012	French 2	5023	German 3	5114	CiHS Spanish 4					
5013	French 3	5024	CiHS German 4	5116	AP Spanish Language					
5014	CiHS French 4	5108	Spanish 1							
5021	German 1	5110	Spanish 2							

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



Applied Engineering & Technology (AET)



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

Engineering @AET

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

Engineering 2		6801	PLTW	1 Credit	5.0 Weight	Year			
*Principles of Engineering			CiHS						
Course Description	Through problems that engage and challenge, students explore a broad range of								
_	engineering topics, including mechanisms, the strength of structures and materials, and								
	automation. Students develop skills in problem solving, research, and design while								
	learning stra	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 item	ns are par	rt of ever	yday life, yet	t most students hav	e not been	
•	introduced to the h	igh-tech, i	innovative	nature of mo	dern manufacturing.	This course	
	illuminates the oppo	ortunities	related to ι	ınderstanding	manufacturing. At the	e same time,	
	it teaches students	about m	nanufactur	ing processes	, product design, ro	botics, and	
	automation. Students can earn a virtual manufacturing badge recognized by the						
	National Manufacturing Badge system.						
Prerequisites • Completion of Intro to Engineering Design							
	 Teacher rec 	ommenda	tion				

Engineering 4	6815	PLTW	1 Credit	5.0 Weight	Year				
*Engineering Design &		CiHS							
Course Description	The knowledge and skills students acquire throughout PLTW Engineering come								
_	together in Engineering Design and Development as they identify an issue 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-se	condary p	rogram or ca	reer.					
Prerequisites	Completion of IED & POE								
•	 Concurrent 	enrollmer	nt in college	preparatory	mathematics.				

Environmental Sustainability		6825	PLTW	1 Credit	5.0 Weight	Year			
			CiHS						
Course Description	In Environmental Sustainability, students investigate and design solutions in response								
_	to real-world challenges related to clean and abundant drinking water, food supply, and								
	renewable energy. Applying their knowledge through hands-on activities and								
	simulations,	students rese	arch and d	esign potentia	al solutions to these	true-to-life			
	challenges.								
Prerequisites	• Stud	ents will have	completed B	iology with a	70% or higher.				
_	• Open to grades 10, 11, & 12								

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

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

Manufacture@AET

Manufacturing Tech 1		6601		1 Credit	NonWeighted	Year		
*Materials & Construc	tion							
Course Description	This year long course provides a foundation for the AET department and introduces students to the proper use of tools in the laboratory. This course is designed to instruct students in the areas of reading project drawings, knowledge of materials and uses, calculations of materials, and project procedures. A major emphasis will be placed on shop safety, proper hand and power tool usage.							
	This course provides students with an in-depth introduction to the shop and students will gain practical knowledge needed to work on their own projects or continue on with lifelong skills in fabrication and construction. Students will construct various teacher assigned projects, as well as create, design and build personal projects of their choice with teacher guidance and close supervision.							
	structure of the residindustry offers. Studentsed for various type	se also provides students with a broad analysis of the organization at of the residential construction industry and the many career choices to offers. Students will study the current construction methods and material various types of residential structures. This course introduces seent, preparation, job layout, materials and methods for construction.						
Prerequisites	None Grades 9, 10, 11 & 12							

Manufacturing Tech 2A		6602		1 Credit	NonWeighted	Year
*Mass Production						
Course Description	produced proto process variable plasma cutte will be utilized production seems.	ojects in the lab rious material rs, laser engra ed by the stud	. Students was. The use overs and the ents. Student each student	rill learn the sai of automated (e associated so nts may be ask nt completes	the development of fe operation of tools at CNC technology, such of tware for both wook and to work on projectione part of a production of the conjects.	nd machines h as routers, d and metal, ets in a mass
Prerequisites	Successful completion of Manufacturing Tech 1Teacher Recommendation					
	• Grad	les 10, 11, 12 or	nly			

Manufacturing Tech 2B		6302		1 Credit	NonWeighted	Year	
*Metals and More							
Course Description							
Prerequisites	Successful completion of Manufacturing Tech 1						
	 Grades 10, 11 & 12 only Teacher recommendation 						
	• reac	ner recommen	uation				

Manufacturing Tech 3			1 Credit	NonWeighted	Year	
*Product Factory						
The product factory course is intended to be the culmination of all other preparate courses in the AET department. This course will educate a new generation of innoval by integrating creativity, research, design, prototyping, and manufacturing. Stude will use the design process to determine shortcomings in existing products, imprupon them, and present their designs in the first portion of the year. Students develop their own product after successfully demonstrating proficiency with machines and processes. This course demands students to apply skills, techniques, technological abilities learned in previous courses to design and develop a product groups as well as individually. Students will have access to 3d modeling, learner than the factor of the product of th						
Makerlab@AET or CADD 1						
Ŭ						
	The product courses in the by integrating will use the upon them, a develop their machines and technological groups as wengraving/cudepartment Make Make	The product factory course courses in the AET departm by integrating creativity, rewill use the design process upon them, and present the develop their own produmachines and processes. The technological abilities learn groups as well as individengraving/cutting, CNC ple department Makerlab@AET or own Manufacturing Technological abilities.	The product factory course is intended courses in the AET department. This course by integrating creativity, research, design will use the design process to determine upon them, and present their designs develop their own product after such machines and processes. This course detechnological abilities learned in previous groups as well as individually. Studiengraving/cutting, CNC plasma cutting department Makerlab@AET or CADD 1 Manufacturing Tech 1	The product factory course is intended to be the cult courses in the AET department. This course will educate by integrating creativity, research, design, prototyping will use the design process to determine shortcoming upon them, and present their designs in the first product after successfully demachines and processes. This course demands student technological abilities learned in previous courses to groups as well as individually. Students will have engraving/cutting, CNC plasma cutting, CNC router department Makerlab@AET or CADD 1 Manufacturing Tech 1	The product factory course is intended to be the culmination of all other courses in the AET department. This course will educate a new generation of by integrating creativity, research, design, prototyping, and manufacturing will use the design process to determine shortcomings in existing product upon them, and present their designs in the first portion of the year. So develop their own product after successfully demonstrating proficient machines and processes. This course demands students to apply skills, technological abilities learned in previous courses to design and develop a groups as well as individually. Students will have access to 3d mode engraving/cutting, CNC plasma cutting, CNC routering, that are available department • Makerlab@AET or CADD 1 • Manufacturing Tech 1	

MultiMedia Tech@AET

MMT 1		6501		1 Credit	NonWeighted	Year
*VisCom & Video Bas						
Course Description	This year long course different areas of visus Photography, image in video production and CC products, including pictures, designing, creating The video aspect of the using Adobe Premiere and present a weekly	al commun manipulation offset press of Photoshot eating, film nis course v Pro. Studen	ication and on, screen printing. A op, Illustrating, making will teach st nts will wor	video prod printing t-sl Il projects w or and Prem g and doing udents how k individual	uction. Topics incl hirts, vinyl decal fill be designed usi- hiere Pro. If you of things, this course to make and edit ly and collaborativ	ude: digital production, ng Adobe ® enjoy taking is for you.
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	manipulati	on and 3D Printii	ng. Digital			
	photography is covere	ed for one s	emester an	d you will d	o many projects u	sing a high-			
	end digital camera.	If you er	njoyed VisC	Com this cou	arse is for you, or	f if you are			
	considering a career in	graphics/	photograph	y then this c	ourse is a must. T	his course is			
	a Technology Credit.								
Prerequisites	• 75% or better i	n MMT 1 (VisCom an	d Video Bas	ics)				

MMT 2B**		6506		1 Credit	NonWeighted	Year	
Introduction to Film Studies & Media							
Production							
Course Description	This class teaches stud	This class teaches students how to appreciate, analyze and interpret theme, character,					
**This is a collaborative	story structure, and narrative technique through the medium of film. Students will read						
course between the	screenplays, analyze sł						
AET and English	rework existing scripts						
departments.	and improve dialogue					plays, learn	
departments.	filmmaking techniques, and film their own original works.						
Prerequisites	Teacher Recommendation						
_	• Grade levels: 10, 11 and 12						

MMT 3A	MMT 3A			1 Credit	NonWeighted	Year		
*Advanced Graphic De								
Course Description	This year-long course is an extension of the Graphic Design and Photography course.							
	This course expects a high l	This course expects a high level of creativity and a willingness to "think outside the box".						
	Projects are challenging and require more time and thought to complete. Projects							
	include multi-colored vinyl decals and t-shirts, glass etching, photography, image							
	manipulation and 3D Printing. Each student will continue to learn advanced techniques							
	in Adobe Illustrator, Pho	toshop an	d Light	room. This	is the perfect cou	arse for the		
	designer, artist, and create	or. This c	ourse is	a must if yo	ou are considering	g a career in		
	graphic design, photograp	hy, marke	eting or	advertising.	This course is a	Technology		
	Credit.							
Prerequisites	Teacher Recommendation							
	 75% or better in Gr 	aphic Des	ign and	Photograph	y			

Advanced Video Broad	dcasting 3	6508		1 Credit	NonWeighted	Year
Course Description	Students will act as a prod of film production, and act a program play out server, need leadership skills to Comcast and Verizon local	t in many : and a grap effectively	rolls thro hic gene produc	oughout the erator for the	course. Students message board. S	will operate tudents will
Prerequisites	Teacher Recomme75% or better in In		to VisC	om and Vid	eo Basics	

Make and Model@AET

MakerLab@AET		6800		1 Credit	NonWeighted	Year
Course Description	Makerspaces are created learn. Students will be tools to develop their on paper will transform technological problem,	able to use designs and m into 3D	e 3D printer d bring then products. S	s, software, n to life. Dr tudents will	electronics, craft su rawings that previo learn the process	applies, and ously ended of solving a
	This introductory level in design and enginee understanding of cou- learning, used in com- previous knowledge of	ering. Stud rse concept abination	lents will has s through a with a team	ave the oppositivity, proj	ortunity to develogect, as well as pro	p skills and blem-based
Prerequisites	• None					
	 Open to grade 	s 9, 10, 11,	& 12			

Computer Assisted Dr	awing 1 (CAD1)	6821		1 Credit	NonWeighted	Year	
Course Description	A full-year course offered to students in grades 9-12. This course teaches students how						
•	o 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 usin						
	various materials to simulate a working architectural model.						
Prerequisites	• Open to grades 9, 10, 11, & 12						
•	Teacher Recon	nmendatior	ı				

Computer Assisted Dr	awing 2 (CAD2)	6822		1 Credit	NonWeighted	Year
Course Description	This course is designed applications in Comput of study will include projection, advanced pictorial systems, architic in the development of Students will also be gis Autodesk.	ter Aided I , but are r practices in itectural dr skills for a	Orafting and not limited not limension dimension awings, and career in are	Architectur to: geometr ning, section I computer a chitectural p	al Design Technoloric construction, on ning, auxiliary vien ided drafting. This lanning, design, auxiliary auxiliary control c	ogies. Areas rthographic ew systems, is will result and drawing.
Prerequisites	 75% or better in CAD 1 Teacher Recommendation 					

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

Robotics		6813		1 Credit	NonWeighted	Year
Course Description	This year long cour- programming of robo many types and opera of robots in manufact throughout the course robotic competitions. In 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 wel nd problem ave the oppo great found	e a basic understand l as the programmi solving will be expression portunity to compete ation for students in	ading of the ing, and use emphasized e in various nterested in
Prerequisites	 Open to grade 	es 9, 10, 11,	& 12			



Art



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*.

ID	Course Name	ID	Course Name	ID	Course Name
7101	Art 1 (9-10)	7400	Art 4	7480	Advanced Digital Art & Design
7102	Art 1 (11-12)	7445	Honors Studio Art	7455	Honors Digital Art
7200	Art 2	7460	AP Studio Art	7450	AP Digital Art
7300	Art 3	7475	Digital Art & Design		
7481	Game Design Triad	(GD3):	The Game Design Triad co	nsists of	three yearlong courses that work

<u>Game Design Triad</u> (GD3): The Game Design Triad consists of three yearlong courses that work collaboratively to allow the students to immerse themselves in a real-world game design experience. Students will work in teams across the three classes as a collective "company" to produce, design, animate, playtest and market their game to the student body. Throughout the process, students will be responsible for meeting checkpoints and deadlines; they will be evaluated on the success of their final game launch.

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

Art 1 (9/10)	7101		1 Credit	NonWeighted	Year			
Course Description	This hands-on course will introduce and analyze the principles and elements of art,							
•	which will be used to effectively complete projects throughout the year. Emphasis will							
	be placed on the foundations of drawing, painting, printmaking, graphic design and							
		sculpture. Art 1 9th/10th grade will meet the developmental and cognitive needs of the						
	students at their re	students at their respective grade level.						
Prerequisites	 None 							

Art 1 (11/12)	7102		1 Credit	NonWeighted	Year
Course Description	which will be used focus primarily on skills that would b	to effectively coreal world appose used in a prothe development	omplete projects t lication of artistic ofessional or entro	the principles and elements throughout the year. To practices. The student epreneurial manner. The students of the students of the students of the students.	his course will at will develop Art 1 11 th /12 th
Prerequisites	• None				

Art 2	7200		1 Credit	NonWeighted	Year
Course Description	continue their stud with opportunities	dy. Further exp s to extend lea lkscreen; illusti	loration in mater rning in basic stration, additive sc	o visual arts in Art 1 ials and tools will be audio experience. Slip aulpture, and personal erience.	supplemented cast ceramics,
Prerequisites	80% in Art 1Teacher record	mmendation			

Art 3	7300		1 Credit	NonWeighted	Year
Course Description	emphasized in thi watercolors, intag	s third year ex glio, advertising of crafts are	sperience in the vag, subtractive s considered. To e	ce on an artist's intervisual arts. Wheel-throculpture and the fundance their persona	own ceramics, unctional and
Prerequisites	80% in Art 2Teacher record	mmendation			

Art 4	7400		1 Credit	NonWeighted	Year
Course Description	artistic representat student explores techniques, integr subtractive sculptu	ion. Portfolio d ceramic form ration of pain are techniques sh to furnish s	evelopment may lass created in boot and collage, land an extension	develop a deeper und be an ultimate goal as oth hand-built and ithographic processes of the understanding they continue to ex	the committed wheel-thrown s, cartooning, of art in craft.
Prerequisites	80% in Art 3Teacher record	mmondation			

Honors Studio Art		7445	Honors	1 Credit	5.0 Weight	Year
Course Description	are interested upon and uti creating a pe creative prob consideration course by giv	l in taking AP s lize prior draw rsonalized dra lem solving, w ns. This course	Studio Art (E ving and pain wing portfo herein stude will lay the	Prawing) in the nting concepts lio. All course nts will be resp groundwork	med for 11th grade stair senior year. Studen and techniques in or work will foster inconsible for all stylistic for the AP Studio Artfolio that is reflective	ts will build der to begin lividualized and design t (Drawing)
Prerequisites	• Non	e				

AP Studio Art		7460	AP	1 Credit	5.5 Weight	Year
Course Description	art. Students and mixed m	will create a p nedia, which w	ortfolio of w ill be submi	vorks including tted for evalua	sted in the practical extending, painting, painting, painting, painting, pation at the end of the ollegeboard.com	printmaking
Prerequisites		in Art 3 her recommend	dation			

Digital Art & Design		7475		1 Credit	NonWeighted	Year
Course Description	this course. reexamined, in order to processes an themes and i	Traditional des and reevaluate create unique d mediums w ssues. Themes	sign principed along with ely contempial be explored include digi	les and art mand the non-tradition porary artwored in order the tall painting, in	es and processes are aking processes will hal and cutting edge tak. Twenty-first cento address a diversity mage manipulation, ctional/digital art hyb	be utilized, echnologies cury artists, of current ompositing,
Prerequisites	• Non	e				

Advanced Digital Art	& Design	7480		1 Credit	NonWeighted	Year
Course Description	course will vocabulary. students del- manipulation traditional/c	focus on designation of the digential to	gn principle le and artis tital art realing, vector ids will be	es and elemer tic voice will n. Students w drawing, an	nniques, styles and protes to advance stude be examined and de ill utilize digital pair imation, image tra students will develo	ents' digital eveloped as ating, image unsfer, and
Prerequisites		in Digital Art & her recommend	0			

Honors Digital Art		7455	Honors	1 Credit	5.0 Weight	Year		
Course Description	This is a pre	This is a preparatory course designed for 11th grade students who are interested in						
_	taking AP D	igital Art in th	neir senior ye	ear. Students	will build upon and	utilize prior		
	digital multi	media concept	s and techni	ques in order	to begin creating a p	ersonalized		
	design portfo	design portfolio. All course work will foster individualized creative problem solving,						
	wherein stud	lents will be r	esponsible f	or all stylistic	and design consider	ations. This		
	course will la	y the groundw	vork for the A	AP Digital Art	course by giving stud	dents a head		
	start in creati	ng a portfolio	that is reflect	tive of a uniqu	e and personal artistic	c voice.		
Prerequisites	• 90%	in Digital Art &	& Design	_				
•	Teacl	ner recommen	dation					

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

Game Design Triad (GD3):		7481		1 Credit	NonWeighted	Year
Character & Graphic Development						
Course Description	courses. Studen	nts will lea eters, backg he end, stu	rn about, cr rounds, obje dents will p	reate, and dev cts, start screen rovide the nece	rve as the asset creation relop the various visus, etc.) needed for a ressary handmade assessary handmade as	ual graphic nultitude of
Prerequisites	None				O	



Business



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

ID	Course	ID	Course Name				
6010	Introduction to Accounting	6060	Design, Multimedia, & Web Technologies				
6055	Accounting 1B	6070	Business Law				
6005	Financial Accounting	6015	CiHS Principles of Accounting				
6051	Foundations of Personal Finance	6065	Marketing Dynamics				
6050	Introduction to Business Concepts 6009 Succeeding in the World of Work						
6087	Game Design Triad: The Game Design Triad co	onsists of	three yearlong courses that work collaboratively				
	to allow the students to immerse themselves i	n a real-v	vorld game design experience. Students will work				
	in teams across the three classes as a collect	ive "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 evaluate	ated on t	he success of their final game launch.				
	a. Character & Graphic Development (Ar	t Departr	ment Offering)				
	b. Game Development (Computer Scienc	e Depart	ment Offering)				
	c. Advanced Game Marketing (Business	Departm	nent Offering)				

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	aths includin	g general man	agement, marketing,	finance, and		
	real estate. T	his is the first-	year course	in the accoun	ting program and is	an excellent		
	course for bo	oth professiona	al and person	nal use. The e	mphasis is on unders	standing the		
	complete acc	ounting cycle	for a busine	ess operated a	s a sole proprietorsh	ip. Business		
	transactions	will be anal	yze, classifi	ed, and reco	orded using both n	nanual and		
	computerized	d accounting	systems. T	he fundamer	ntal principles of d	louble-entry		
	bookkeeping	, financial state	ements, trial l	balances, work	sheets, special journa	ıls, adjusting		
	entries and c	losing entries v	vill be introd	uced. Enrollm	ent in this course pro	vides a solid		
	foundation o	f the basics nee	eded for orga	nizing both pe	ersonal and profession	nal financial		
	information a	and assists witl	h the transiti	on to college-l	evel accounting princ	iples.		
Prerequisites	• Non	e						

Accounting 1B		6055		1 Credit	NonWeighted	Year
Course Description	Introduction accounting of transactions computerized bookkeeping planning and analyzing cowill add to	to Accounting cycle for a be will be analyd accounting along with such recording a rporate financi	However, to usiness open yzed, classiff systems. To ubsidiary lectrocount allowal information of	the emphasis is a captured as	of the concepts into son understanding to corporation. Corporation orded using both reported principles of cital journals, payroll adjustments, and precussed. Enrollment in asics and further ass	he complete the business manual and double-entry accounting, eparing and in this course
Prerequisites	• Intro	duction to Acc	ounting			

Financial Accounting		6005		1 Credit	NonWeighted	Year
Course Description	course will poon a career concepts of utilization of	rovide the thec in any busine financial acco financial stater asset to any en	oretical backg ss-related fi- unting that ment data. A	ground necessa eld. Students includes the working know	it from Financial According for students who a will be introduced to preparation, interprevienge of accounting a associated.	are planning to the basic etation, and
Prerequisites	• Teacl	ner recommen	dation			

Foundations of Person	al Finance	6051		.5 Credit	NonWeighted	Semester		
Course Description	Students will learn fundamental personal finance skills that will prepare them fo							
*	financial inc	financial independence. Understanding money management, investments, wealth						
	building, credit and debit, real estate, earning potential, and consumer awareness are							
	topics explored throughout this course. Critical thinking skills including analyzing real-							
	world situati	ons, decision-n	naking, prob	olem solving ar	nd goal setting are als	o developed		
	in Foundations of Personal Finance.							
Prerequisites	• None	9						

Introduction to Business	Concepts	6050		1 Credit	NonWeighted	Year	
Course Description	This yearlon running a sr Management and Ethics. S depth the as incorporated revise and de	g course prove mall business to the marketing, Fitudents will respects of business into the course bliver business	through exactinance, Adverse arch and wees. Businesse units. Studdocuments a	ts with the opmining the mertising, Operavite a cumulate writing, oral ents will learn and presentation	opportunity to gain a lany areas of busines ations, Human Resourtive business plan that, and collaborative skews to plan, organizons in a professional a	wareness of ss including res, Finance t explores in kills are also e, construct, and effective	
Prerequisites	way. We will conduct business research, analyze and solve business problems through critical and reflective thinking, and communicate results and ideas through appropriate mediums. • None						

Design, Multimedia, & Web		6060		.5 Credit	NonWeighted	Semester
Technologies	Technologies					
Course Description	Students will	l gain a basic u	ınderstandin	ng of effective	digital communicatio	n skills and
_	the importar	nce of the desi	gn process	as it pertains	to communicating v	ria the web.
	Exploration	of the design	process fron	om the development of the original idea to the		
	implementat	ion of the final	working we	bsite will be a	focus. Additionally, s	tudents will
	create websit	es using HTM	L (Hyper Te	xt Markup La	nguage) as well as ut	ilize state of
	the art softw	are that will al	llow further	customization	of their websites. Th	nis course is
	open to all grade levels.					
Prerequisites	• None	9				

Business Law		6070		1 Credit	NonWeighted	Year
Course Description	law and the decisions and	ethics involved d their relevan	l, the process ce to emplo	ses of our lega yers in the da	luce students to the pull system, and the impull operation of a busearch based projects.	pact of legal
Prerequisites	Intro to Business (recommended)					

CiHS Principles of Accounting		6015	CiHS	1 Credit	5.0 Weight	Year	
Course Description	This College	in the High	School cour	rse is an intro	duction 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 entrie	s; trial balance	s; and financ	cial statements	. Accounting for asset	s is covered	
	in detail. The	e focus of this	course is or	n sole proprie	torships. College cre	edit may be	
	earned if all	requirements	are met; a f	ee is attached	to earning college c	redit. (from	
	Carlow University Undergraduate Course Catalog 2014-2015)						
Prerequisites	• Non	e					

Game Design Triad (GD3):		6087		1 Credit	NonWeighted	Year
Advanced Game Mar						
Course Description	Advanced C	ame Marketir	h solid experiences	in creating		
	market-drive	n strategies fo	or the futui	re success of	a business, specifica	ılly a game
	development company. Students will take the approach of Chief Marketing Officers					
	(CMO) and	a marketing le	adership pe	rspective to m	naximize their game's	s profit and
	recognition v	vithin the mar	ketplace. St	udents will ga	in real-world experie	ence as they
	work collabo	ratively to imp	olement a ma	arketing plan t	that will impact the o	pinions and
	buying behaviors of customers and the overall success of the game.					
Prerequisites	It is recommended (Not required) that students take the Introduction to					
-	Busii	ness or Market	ing Dynamic	es prior to enro	olling in this course.	

Marketing Dynamics		6065		1 Credit	NonWeighted	Year
Course Description	an in-depth l have the opp Also incorpo successfully customer res analyzing that applications. knowledge b facing many	ook into marked ortunity to involve the market a new search. The search concepts Students will by exploring more different are	eting theorie vestigate the developmen product, de cond half clearned the be given the prespecific coeas of market	s, approaches marketing ap t of the thouse velop new proof the year wough project a opportunity oncepts, career keting (include	of marketing, this coulon and functions. Stude proaches used in varight process and skill roducts, and gather prill focus on implements, simulations, and to expand their according sports and entitle the course is open	nts will also rious media. s needed to product and nenting and d hands-on quired basic urrent issues tertainment,
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 currentl	y working or	who plan t	o gain emplo	yment in the near f	future with
	the fundam	entals of em	ployment a	nd strategies	for success in the	workforce
	utilizing a o	o-teaching m	odel. Stude	ents explore a	and study areas inc	cluding on-
	the-job an	d employm	ent skills,	communic	ation and person	nal skills,
	daily work	skills, ethics,	, diversity,	, personal	finance, the job	cycle, and
	independen	t living. Succ	eeding in the	e World of Wo	rk provides studen	ts with the
	knowledge	and skills ne	eded to ma	ke a smooth	transition into the	workforce.
	This class	is geared to	help stude	ents become	intellectually ener	gized in a
	dynamic and challenging atmosphere that engages and motivates students to a					
	higher academic and personal level.					
Prerequisites	• None	9				



Career & Community Learning Opportunities



ID	Course Name	ID	Course Name	ID	Course Name
6092	Peer Learning Assistant	6091	Internship/Career Experience	6090	Work Experience

Peer Learning Assistan	nt	6092		.5 Credit	NonWeighted	Year
Course Description	apply the school. S library p Designate opportur spots ava	eir leadershi pecifically, peer manag ed students hity includes hilable based	p and acade students cager, and/or will help other a competion on set crite	emic skills that can napply to becon academic tutor ther students and a tive 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 more ingassistant	e beyond high port assistant, class periods. ese areas. This s with limited
Prerequisites	 Must be in 11th or 12th grade Recommendation from application committee 					

Internship/Career Exp	erience	6091		1-3 Credits	NonWeighted	Year
Course Description	This senior level, experiential learning course will afford students the opportunity to develop and apply skills that they can transfer to life following high school. The goals of the program are: to provide students with first-hand experience in an identified work place; to develop in students a sense of responsibility and confidence; and to allow students to explore careers of interest. Students are assigned a split schedule. Part of the day is spent in the classroom on academics and part of the day is spent at an on-site learning environment; the amount of time in each setting is determined by the teacher and workforce mentor. Application and principal approval is required. For the 2019-2020 school year, student applications for the Internship/Career Experience will be accepted from seniors who have successfully completed the PLTW Environmental Sustainability class. • 12th grade					
Prerequisites						

Work Experience		6090		1-3 Credits	NonWeighted	Year
Course Description	the opport scheduling experience and sche	unity of emplo g flexibility sin es. Evaluations dules, comple	yment on the state of the state	luring the senior what they will ended wisits to the visits to the vistudent	le learning experience year. Work experience encounter with most workplace, monitoring als and reflections, in the workplace and so	e offers seniors postsecondary of work hours independent
Prerequisites	• Er	th grade prolled in 5 class ounselor recoming a udent training a	mendati	on		



Computer Science



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. **AP Computer Science A (JAVA) and AP Computer Science Principles may count as a math or science credit all other courses are electives.

ID	Course	ID	Course Name					
6062	AP Computer Science Principles	6020	CiHS Cybersecurity & the Law					
2635	AP Computer Science A	2650	Introduction to C#					
2653	CiHS C++	2612	Introduction to Computer Programming					
2613	Game Design Triad: The Game Design Triad consists of three yearlong courses that work collaboratively to							
	allow the students to immerse themselves in	n a real-v	vorld game design experience. Students will work in					
	teams across the three classes as a collective	"compa	ny" to produce, design, animate, playtest and market					
	their game to the student body. Through	nout the	process, students will be responsible for meeting					
	checkpoints and deadlines; they will be evaluated on the success of their final game launch.							
	a. Character & Graphic Development (Art Department Offering)							
	b. Game Development (Computer Science Department Offering)							
	c. Advanced Game Marketing (Business	Departn	nent Offering)					

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

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

Game Design Triad (GD3):		2613		1 Credit	NonWeighted	Year
Game Development						
Course Description Game Development is designed fo			gned for asp	iring game dev	velopers who want to	gain a solid
	foundation in the game development/design process. Students will gain real world				real world	
	experience as they work in student teams to design games from the ground up in the					nd up in the
	Unity game engine. The Game Development class will serve as the des				the design,	
	development, and implementation of the game leg of the Game Design Triad. The Game					. The Game
	development course should appeal to individuals who are good problem solvers and					solvers and
	able to work as a productive member of a team.					
Prerequisites	• Non	e				

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

CiHS Cybersecurity & the Law		6020		1 Credit	5.0 Weight	Year	
Course Description	This University of Pittsburgh (CIHS) elective course will explore how computers, the						
•	Internet, and	mobile inform	mation techr	nologies have	become routine elem	nents of our	
	daily lives. T	he percentage	of social, pr	ofessional, and	d political discourse r	nediated by	
	information	systems increa	ses each yea	ar. This course	explores questions s	surrounding	
	how cyberspace is "governed" in the context of cybersecurity and privacy issues. We will						
	examine a series of examples, both real world and hypothetical, to investigate what						
	policy "tools" are in-place, available, and should be available to address Internet security						
	and privacy issues. (Adapted from the University of Pittsburgh Undergraduate Course						
	Catalog 16-17) This s a College in High School course and there is an option to receive						
	three credits from the University of Pittsburgh. There is a fee involved for students who						
	wish to earn the college credits. The link shares information regarding jobs in						
	cybersecurity. One Million Cybersecurity Job Openings In 2016 - Forbes						
Prerequisites	• Non	e					

Introduction to C#		2650		.5 Credit NonWeighted				
Course Description	This course is an introduction to fundamental computer concepts and programming techniques that use arrays and objects. The language syntasimilar to C++ but will have a visual environment similar to Visual Basic. Students will have the necessary knowledge to conduct research into Microsof component in C#. Upon successful completion of this course, students will be for CIHS C++.				ntax will be			
Prerequisites		duction to Cor her recommen	1	ramming				

Introduction to Computer		2612		1 Credit	NonWeighted	Year
Programming						
Course Description	Carnegie Me opportunity Students will graphics, fun	ellon University to work with get a general i ctions, events,	y. In this confaculty and/ ntroduction loops, and st	ourse, Chartie or students fr to programmi rings. Studen	with professors and rs Valley students wom Carnegie Mellon ng techniques by studes will begin learning and languages.	ill have the University. lying errors,
Prerequisites	• Enro	lled in or comp	oleted Algeb	ra 1	_	



English



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	Course Name	ID	Course Name	ID	Course Name
1111	English 9/Composition 1	1322	American Literature	1502	CiHS Communications/
			Composition 3/11		Rhetoric
1131	English 9 Advanced/	1325	Advanced Language &	1532	Journalism/Yearbook
	Composition 1		Composition/11		
1132	Honors English	1350	AP Language & Composition	1542	Yearbook Production
	9/Composition 1				
1211	English 10/ Composition 2	1422	World Literature	1360	AP Seminar
			12/Composition 4		
1231	English 10 Advanced/	1425	Honors World Literature 12	1365	AP Research
	Composition 2				
1232	Honors English 10/	1355	AP Literature & Composition		MMT 2B (Introduction to
	Composition 2				Film Study & Media
					Production)

English 9/Composition 1		1111		1 Credit	NonWeighted	Year
Course Description	curriculum. l school level Instruction v	Each student w writing and c	vill further de ritical thinking to students'	evelop those sing in response	evel composition and kills needed for the ri to fiction and non-f that they can develo	gors of high fiction texts.
Prerequisites		ade performai				
	 Teach 	her recommen	dation			

English 9/Advanced		1131		1 Credit	NonWeighted	Year	
Composition 1							
Course Description	This course i	This course is an introduction to high school level advanced composition and literature					
_	curriculum.	Each student v	vill further d	levelop the sk	ills necessary in acco	rdance with	
	PDE require	ments, as well	as those sk	ills needed fo	r the rigors of high	school level	
	writing and	critical thinkin	g in respons	e to fiction an	d non-fiction texts. S	tudents will	
	examine the	content of lite	erature as w	ell as the wri	ter's style and struct	ture of each	
	assigned pied	ce. Emphasis w	vill be placed	d on formal, ar	nalytical essays and th	he synthesis	
	of various sources into one cohesive, written assignment.						
Prerequisites	• 8th gr	ade performar	nce data	-			
1	• Teac	her recommen	dation				

Honors English 9/Composition 1		1132	Honors	1 Credit	5.0	Year
Course Description	of Advanced as the writer formal, analy assignment.	Placement stu 's style and str tical essays and	dies. Studen ructure of ea d the synthe rudy fiction, 1	ts will examin ch assigned p sis of various s	orous learning pace are the content of literative. Emphasis will be sources into one cohes ama and poetry from the content of	ture as well e placed on sive, written
Prerequisites		ade performar her recommend				

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 amples of all genres a l be encouraged to do aethods in response to	nd begin to evelop high
Prerequisites	9th grade performaTeacher recommer					

English 10		1231	AP	1 Credit	NonWeighted	Year
Advanced/Composition 2						
Course Description This course is a continuation						
	curriculum. Students will explore the advanced elements of analytical writing as well a					
					kills needed for the ri	
	school level	writing, critical	l thinking an	ıd rhetorical m	ethods in response to	fiction and
	non-fiction texts.					
Prerequisites	9th grade performance data					
•	• Teac	her recommend	dation			

Honors English 10/Composition 2		1232	Honors	1 Credit	5.0 Weight	Year
Course Description	This course w	This course will continue the sequential development of language arts skills from t				lls from the
•	Honors Englis	h 9 curriculuı	m and is des	igned to prepa	re students for AP La	nguage and
	Composition a	Composition and AP Literature and Composition. An in-depth analysis of literary				
	elements will be emphasized with focus on traditional as well more modern selections					n selections
	of fiction and r	of fiction and non-fiction. Students will learn more advanced methods of poetry analysis				
	and be introdu	iced to rhetor	ical methods	s and elements	s .	
Prerequisites	9 th grade performance data					
1	• Teach	er recommend	dation			

American Literature		1322		1 Credit	NonWeighted	Year
Composition 3/11						
Course Description	the Pennsylv of Age", whi focus, reflect age in refere oneself, etc. literature, in learning assi to the comm	ania Core Stand ch students oft , and revolve a nce to directio Literature will addition to now gnments will b	dards. The co ten experience around these on in life, the linclude sho yels. Critical a be utilized to udards. Free	ourse follows a ce during this e unique them e responsibiliti ort story and p analysis essays evaluate stude writing journ	writing, and research thematic element of the period of their life. Earlies associated with the es of a young adult, poetry selections from a polycetive tests, and pent understanding as all projects and vocal	he "Coming ach unit will e coming of discovering m American project based it correlates
Prerequisites	• 10th	grade perform her recommen	ance data			

Advanced Language &	Ξ	1325		1 Credit	NonWeighted	Year
Composition/11						
Course Description	writing that or reading and argument ar	conveys depth critical thinkind methods o	of understar ng skills in f persuasion	nding and mea order to ide n. Students	ex nonfiction texts and ining. Students will d ntify and understand will learn to constr	evelop close d a writer's uct original
	argumentation through the analysis of the techniques of rhetorical analy argumentation and synthesis. In addition, students will learn to write persuasively vevidence and meaningful commentary. Based on the curriculum for AP Language of the curriculum for AP Language of the techniques of rhetorical analysis.					asively with

	Composition, the skills mastered in this course provide students with an analytical base which can be applied to all subject areas. This course satisfies an ELA requirement.
Prerequisites	 10th grade performance data Teacher recommendation

AP Language & Composition		1350	AP	1 Credit	5.5 Weight	Year
Course Description	guidelines of to read critic speech. This depending of vocabulary, to diction and s pieces, as we	the current All cally, think an course is org n curricular ob to use Standar syntax in an au	P English Contains an ized by libit is an ized	urse Description and communic iterary time an an unit requires rammar, and	ording to the require, therefore students a ate clearly, both in and/or authoritative a students to acquire a to understand the improvement of the will include various expected to take the	are expected writing and time period and use rich aportance of s nonfiction
Prerequisites	10th grade performance data Teacher recommendation					

World Literature 12/		1422		1 Credit	NonWeighted	Year
Composition 4						
Course Description	secondary w grammar, vo and the abil Pennsylvania communicati the student's	orld. Analysis cabulary, and ity to communatoric core standare on skills through to critic ability to critic	of fiction a writing skill nicate in bo ds. In additi igh project c cally think, w	nd non-fiction s, will further th written and ion, students oriented assess york independ	kills that are needed in selections, in conju- develop student con- didical forms as requ- are prepared for pos- ments. These assessing ently as well as in a grand non-fiction sour	nction with apprehension ired by the st-secondary ments reflect roup, and to
Prerequisites		grade performa				

Honors World Literatu	ıre 12	1425	Honors	1 Credit	5.0 Weight	Year
Foundations of World Liter	ature &					
Modern Voices in Literatur	e and Media					
Course Description			-		es (Foundations of V	
_			•		led as a yearlong clas	
	will switch t	teachers to tal	ke the oppo	site half of th	e course at the end	of the first
	semester.					
		of World Lite				
	From Gilgam	esh to Lao Tzı	ı's Tao Te C	hing, pre-mod	ern World Literature	provides a
	foundation for	or the timeless	s storylines	of literature th	rough examinations	of real and
	fictional char	acters whose st	tories reflect	the truths of th	e human condition. T	his semester
	course provid	des an in dept	h examinatio	on of the form	ative fiction of the wo	orld. With a
	variety of ge	nres from Wes	stern and Ea	stern civilizati	ons, students are exp	osed to the
	foundations of	of literature and	d philosophy	that influence	the issues of modern	times found
	in literature	and media. S	Student who	take this co	urse will be prepare	ed for post-
	secondary ch	allenges throu	igh the expo	sure of compl	ex texts and the deve	elopment of
	analytical wr	iting.		-		-
		C				
	Modern Voice	<u>ces in Literatu</u>	<u>re and Medi</u>	<u>a</u>		
	Current voices in World Literature continue to explore the social significance of humar					ce of human
	behavior as it occurs in our world today. This semester course provides exposure to				osure to 20 th	
	and 21st centu	ıry voices from	ı various gen	res (novels, sh	ort stories, poems, film	n and plays)
	and their co	nnections to t	he human e	experience and	the issues of ident	ity, cultural

	history, memory, and technology. Students who take this course will be prepared for post-secondary challenges through the exposure to complex texts and media and the development of analytical writing.
Prerequisites	 11th grade performance data Teacher Recommendation

AP Literature and Com	position	1355	AP	1 Credit	5.5 Weight	Year			
Course Description	Advanced Placement Literature and Composition is designed to develop reading,								
•					ound seniors. In this				
					ptively and how to e				
	responses or	ally and in w	ritten compo	sitions. Work	s are chosen from m	any literary			
	genres (poetr	y, drama, nove	el, satire) and	l many literary	periods, from the cla	ssical Greek			
	to the very r	nodern. Comp	osition, prin	narily critical	and expository, stress	ses frequent			
	writing and o	careful revision	, training the	e student to thi	ink and organize clear	rly and to be			
	direct, lucid	and supported	d by the text	. Participation	in whole class and	small group			
					e the Advanced Place				
	given in May	. This is a dual	l described c	ourse with Du	quesne University. St	tudents may			
	receive three elective English credits (there is a fee associated with the credits).								
Prerequisites	11 th grade performance data								
_	• Teac	her Recommer	ndation						

CiHS Communications	s/Rhetoric	1502	CiHS	1 Credit	5.0 Weight	Year	
Course Description	This course examines argument through the examination of various 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 in and out of the classroom setting, analysis and argumentation of socially charged documentaries and other forms of expression, as well as real life situational project challenges are an integral part of the course. The class is a College in High School course and there is an option to receive three credits from The University of Pittsburgh. Since this course is articulated through the University of Pittsburgh, there is a fee involved for students who want to earn college credits. Class attendance is imperative to receive college credits.						
Prerequisites		in English ish teacher reco	ommendatio	n			

Journalism/Yearbook		1532 1 Credit NonWeighted Year							
Course Description	As an electiv	As an elective course designed for 10th and 11th graders, this course will teach the basic							
•	skills needed	d to produce	the Charti	ers Valley ye	arbook. Students w	ill gain an			
	understandir	ng of how to u	se InDesign	CS3 to create	layouts. Students wi	ll also learn			
					cropping pictures, is				
					ss. As yearbook prod				
		business, fundraising is a required part of the curriculum. Additionally, students must							
					y to take photographs				
					nderstanding of the c				
	-	, ,		, ,	nent record of one sch	•			
		ook, and as a p	oublic relatio	ns tool. Studer	nts are expected to tal	ke Yearbook			
	Production.								
Prerequisites		• 10 th and 11 th grade							
		- 00 / it English							
	• Teacl	her recommen	dation						

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

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 Semina at the end of window. All score (using the source of the source)	e AP Capstone ¹ multiple persputer to develop of a information set written established written established ar, students are April and a 2-h three assessment the 1 to 5 scale) is a pre-requising Research the	TM Program. ectives, gatheredible and from multiplesays, as we half and as progressed whom end-of-cents are sum of for AP Semisite for AP R	In AP Semina dering and analytic valid evidence ole sources, deell as design part of a team. The two throughourse exam durative and winar. (AP Seminar. Soph	rade students taken or, students investigated by the irown per and deliver oral (AP Seminar, College Board, Mainar, College Board, Mainar	e real-world rom various udents learn spectives in and visual e Board, May ce tasks due ministration te a final AP ay 2016)
Prerequisites	 None 	e				

AP Research		1365	AP	1 Credit	5.5 Weight	Year
Course Description	AP Research	, the second c	ourse in the	e AP Capston	e experience, allows	students to
•	deeply explo	re an academic	topic, proble	em, issue, or id	ea of individual intere	est. Students
	U 1	-	•		n to address a researc	_
	Through this	inquiry, they i	further the s	kills they acqu	ired in the AP Semina	ar course by
					esearch practices, an	
	2 0				eflect on their skill de	-
					f their scholarly worl	
	1 -	_			es in an academic pap	
					or product where app	olicable) and
	a presentatio	n with an oral	defense. (AF	Research, Col	lege Board, 2017)	
Prerequisites	AP Seminar is a prerequisite for AP Research. Completing AP Seminar and all					
	its required assessment components is necessary for students to develop the					
	skills	to be successf	ul in AP Res	earch. (AP Res	search, College Board, 2	2017)

MMT 2B**		6506		1 Credit	NonWeighted	Year
Introduction to Film S						
Production						
Course Description	This class teaches stud					
_	story structure and nar					
**This is a collaborative	screenplays, analyze sh					
course between the	rework existing scripts	-	•	-	0 1	
AET & English	and improve dialogue filmmaking techniques					plays, learn
departments	artments filmmaking technique			ngmai work	5.	
Prerequisites	& 12					
	Teacher Recon	nmendatior	ı			



Family & Consumer Science



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

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

Introduction to the World 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 at their applications to food choices, nutritional analysis and consumerism. The cour defines the need for students to understand their role in healthy eating to ensure got health in the future. While working in teams, students will gain necessary work ski including communications, organization, and technical reading to ensure success their future careers. Kitchen management, recipe skills and basic food preparations a incorporated in the weekly foods labs while students learn about nutrition and heal responsibilities in their family, career, and community environments.						
Prerequisites	• None		J,,-				

Ethnic and Regional Cuisine		8512		1 Credit	NonWeighted	Year	
and Nutrition 2							
Course Description	This course incorporates the learning from the Adventures of Foods and Nutrition 1 and						
-	allows the student to delve into more specialized and independent projects to explore						
	selected ethnic foods in relation to customs and food preparation techniques, consumer						
	challenges ar	nd career oppo	rtunities. Str	udents will pro	epare various regiona	l and ethnic	
	foods in wee	kly labs, as we	ll as identify	individual ar	nd family dietary need	ds. Students	
	will also practice proper food safety and sanitation principles while working in the foods						
	lab and excelling in work skills requested by future employers.						
Prerequisites	• 75% in Intro to World of Foods						

Child Development and Family Relations		8501		1 Credit	NonWeighted	Year
Course Description	development moral, social stages from the the use of R through lim program. St	t. Emphasis is and emotional, pirth to early cheal Care Baby ited direct pa cudents are als	placed on t , as the child nildhood. Th Simulators, rticipation i o involved	he child's tota proceeds throus is course offer as well as, properties in the high so in community	nd theories associated a development, physicially the sequential development and the sequential development actical experience with the sequence of the sequen	ical, mental, velopmental es including ith children ning center ood Drives,
Prerequisites	• Non	e				

Early Childhood Practicum 1		8505		2 Credits	NonWeighted	Year		
Course Description	This double-	period course i	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, menta	l, 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 stu	dent's snack		
	during Learning Center sessions.							
Prerequisites	75% or better in Child Development and Family Relations							
_	 Teach 	her Recommen	dation					

Early Childhood Pract	icum 2	8506		2 Credits	NonWeighted	Year			
Course Description	This double-	period course e	expands stud	ent childcare s	skills obtained in Early	y 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 r	equires a \$12 pe	er semester s	nack fee to cov	er the high school stu	dent's snack			
	during learning center sessions.								
Prerequisites	• 75% in Early Childhood Education 1								
_	 Teac 	her recommen	dation						

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



Mathematics



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		
2143	Honors Algebra 2	2403	Honors Pre-Calculus		

Pre-Algebra		2121		1 Credit	NonWeighted	Year
Course Description	arithmetic alg Algebra I and learning strat step equation operations w spatial think	gorithms. The of II. The course tegies. Student and inequal with fractions, 1	course emph e helps stude s will explor ities, decima ratios, propo l volume, r	asizes the cond nts develop go e algebraic exp als and equation ortions, percen ight triangles	epts necessary to be sood mathematical students and integers ons, factors, fractions and in Algebra, data a	successful in dy skills and s, solve one- , exponents, d graphing,
Prerequisites	None	2				

Algebra 1		2122		1 Credit	NonWeighted	Year
Course Description	deepen an y contrasting a linear trer nts will flue	d extend the g them with ea nd. They will e ntly move bet	oncepts established ir understanding of ach other and by appengage in methods fo ween multiple represtial and quadratics.	linear and lying linear r analyzing,		
Prerequisites	Successful completion of Algebra Essentials					
	 Teacl 	ner recommen	dation			

Cognitive Algebra 1		2123		1 Credit	NonWeighted	Year
Course Description	State Algebra and Linear E focusing on t Linear Equa Analysis. Al	1 Keystone Ex Equations & In he following si tions, Linear	am. The countequalities and anchors: Continued in the country and anchors: Continued in the country and anchors: Continued in the country and anchors anchors and anchors anchors anchors and anchors	rse will explor nd (2) Linear Operations with Functions, (1 I basic or belo	1 skills in preparation e the two modules: (1) Functions & Data On h Real Numbers and I Coordinate Geometry w basic on the Algeb	Operations ganizations Expressions, and Data
Prerequisites	• Alge	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	Belov	w 70% in Algel w 85% in Cogn her recommend	itive Algebra	a 1			

Algebra 2		2132		1 Credit	NonWeighted	Year			
Course Description		Students extend their repertoire of functions to include polynomial, rational, trigonometric, and radical functions. Working closely with families of functions,							
	students will apply their understanding of transformations. Students will model								
	situations and solve equations including quadratics over the set of complex numbers								
		-	0 1	1	rithms. Students will				
			obability as a	a tool for maki	ng inferences about d	ata.			
Prerequisites		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 ur quations inclu equations using probability as ted coverage,	functions. Inderstanding uding quadr g the proper a tool for r	Working closes of transformatics over the ties of logarith making inferer	include polynomiasely with families of ations. They will mode set of complex nums. Students will use aces about data. Some in greater depths than	f functions, el situations umbers and e descriptive e topics will
Prerequisites		in Algebra 1 her recommen	dation			

Cognitive Geometry		2111		1 Credit	NonWeighted	Year
Course Description	The purpose of the course is to formalize, deepen and extend students' geometric algebraic experiences. Students will continue their work with similarity and congrue Students explore more complex geometric concepts, and relationships, including: fo mathematical arguments, transformations, the coordinate system, right tria trigonometry, circles and probability. This course will move at a slower pace Geometry and topics covered will have a broader approach.					
Prerequisites	 Below 75% in Algebra 1 Teacher recommendation 					

Combined Geometry		2212		1 Credit	NonWeighted	Year			
Course Description		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								
	mathematical arguments, transformations, the coordinate system, right triangle								
	trigonometry, circles and probability.								
Prerequisites	• 75%	in Algebra 1							
•	• Teacl	ner recommen	dation						

Honors Combined Geometry		2244	Honors	1 Credit	5.0 Weight	Year	
Course Description	The purpose of the course is to formalize, deepen and extend student algebraic experiences. Students will continue their work with similarity Students explore more complex geometric concepts, and relationships, mathematical arguments, transformations, the coordinate system trigonometry circles and probability. Some topics will have accelerate					congruence. ding: formal tht triangle	
	some will be covered in greater depths than the Combined Geometry course.						
Prerequisites		in Algebra 1 her recommen	dation		•		

Algebra 3	2145		1 Credit	NonWeighted	Year	
Course Description	use them to so linear and q complex num	olve problems uadratic func	that we enco tions, syster s will also be	ounter in every ns of equatio e introduced t	braic principles and I day life. Students will ns, polynomials, gra o basic trigonometry. arios.	learn about aphing, and
Prerequisites	Successful completion of Cognitive Algebra 2Teacher recommendation					

Trigonometry/Analysis		2313		1 Credit	NonWeighted	Year	
Course Description	A course dea	ling with the co	tion of functions, expo	onential and			
-	logarithmic functions, finite and infinite sequences and series, circular functions, radian						
	measure, solution of right triangles and application of the Laws of Sines and Cosines.						
Prerequisites	• 75% or better in Algebra 2						
•	Teac	her recommend	dation				

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	-				
		covered include a review of basic algebraic concepts; polynomial, rational, exponential								
	and logarithmic functions; trigonometric functions and identities; polar coordinates;									
	analytical Geometry; sequences and an introduction to calculus. Students will develop									
	logical thinking and imagination through the experience of mathematical patterns and									
	will become i	amiliar with tl	ne fundamer	ntals of pre-cal	culus.					
Prerequisites	• 90%	in Honors Alg	ebra 2							
	• 95% in Algebra 2									
	• Teacl	her recommen	dation							

CiHS Calculus		2313	CiHS	1 Credit	5.0 Weight	Year	
Course Description	This is a course for college-bound students expecting to major in business, the arts, related fields. It contains a thorough review of algebra 2 and differential calculus wi						
	emphasis on problem solving rather than theory. This course may be scheduled concurrently with Trigonometry/Analysis with teacher and counselor approval.						
Prerequisites	• Succe	essful completi her recommend	on of Algeb		11		

AP Calculus AB		2423	AP	1 Credit	5.5 Weight	Year		
Course Description	This course is primarily concerned with developing the students' understanding of the							
1	concept of ca	lculus and pro	oviding expe	erience with it	s methods and appli	cations. The		
	course repres	ents a multi-pr	esentational	approach to ca	alculus with concepts,	results, and		
	problems bei	ng expressed	geometricall	y, numerically	, analytically, and v	erbally. The		
	connections l	etween these i	representatio	ons are also ve	ry important. Broad c	oncepts and		
	widely appl	icable method	s are empl	nasized in thi	s course. The focus	s is neither		
	manipulation	nor memori	zation of a	n extensive	taxonomy of function	ons, curves,		
	theorems, or	problem types	s. Technolog	y is used regu	larly by students and	l teachers to		
	reinforce the	relationships a	among the n	nultiple repres	entations of functions	s to confirm		
	written work	, to implemen	t experimen	tation, and to	assist in interpreting	results. An		
			-		basic Trigonometry c	-		
					r prior to taking this			
	also expected	l that as a com	ponent of thi	is course you v	vill take the Advance	d Placement		
	,	of the school y						
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 theme limits, derivatives, integrals, polynomial approximations, series, parametric and p functions, and vectors. The course features a multi-representative approach to calculate and concepts, results, and problems expressed graphically, numerically, analytically and verbally.						
Prerequisites	• 93%	 93% in Honors Algebra 2 93% in Honors Trig Teacher recommendation 					

AP Statistics		2515	AP	1 Credit	5.5 Weight	Year	
Course Description	Students will explore methods of collecting, organizing, and interpreting (inferring produced by others and themselves. Solving everyday problems and technology will be emphasized throughout the course. The student is expected the Advanced Placement Exam in May of the school year. Students enrolled course also have the option to purchase college credits through Duquesne University Complete over the summer. Course units will include: Measures of Central Technology Distributions, Normal Distributions, Correlation and Respondability, Tests of Significance, and Analysis of Variance.						
Prerequisites	• Succe	essful completi	ion of Algeb	ora 2			



Performing Arts



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				

	7501		1 Credit	NonWeighted	Year			
Cadenza chorus is an intermediate level high school group that enjoys the study and performance of choral music. Students in this ensemble have satisfying experiences performing music in the community, supporting school culture, (when appropriate) and in school concerts in the winter and spring. Prescribed concert dress is mandatory.								
Using the powerful medium of music students will be encouraged to express their feelings and emotions through mature interpretation of the written music. For this to occur, discipline and support of each member of the group and director must be in place								
Students will develop correct singing technique in a group atmosphere. Reading skills, including melodic and rhythmic notation, sight reading skills, and intelligent interpretation of the musical style will be emphasized. On-line theory study will enhance this knowledge. This knowledge will be quizzed and graded. Solo and small ensemble opportunities will be available to advanced students.								
performances highlights of The chorus encouraged t December, af	Its will rehearse and perform a variety of styles of music in school and community mances. Dress rehearsals and performances will be part of the grade. One of the this of the year is the SOUNDWAVES recital in the spring. Horus groups often take spring performance trips. Although students are aged to go because they are educational and fun, they are not mandatory. In ber, after the winter concert, auditions will be held to determine students moving							
**			ollowing year.					
	performance performing n in school con Using the perfection of the perfection occur, disciple Students will including m interpretation enhance this ensemble opposite of the chorus encouraged to December, af into upper lever of the chorus encouraged to the performance of the chorus encouraged to the perfection of t	Cadenza chorus is an interperformance of choral must performing music in the corin school concerts in the wind using the powerful mediut feelings and emotions throus occur, discipline and supposed Students will develop corresponding melodic and resinct interpretation of the music enhance this knowledge. The ensemble opportunities will students will rehearse and performances. Dress reheat highlights of the year is the The chorus groups often encouraged to go because December, after the winter control upper level chorus groups of the performances.	Cadenza chorus is an intermediate level performance of choral music. Students performing music in the community, sur in school concerts in the winter and spri. Using the powerful medium of music feelings and emotions through mature occur, discipline and support of each medical style will develop correct singing terincluding melodic and rhythmic no interpretation of the musical style will enhance this knowledge. This knowledgensemble opportunities will be available. Students will rehearse and perform a var performances. Dress rehearsals and perhighlights of the year is the SOUNDWA. The chorus groups often take spring encouraged to go because they are edu.	Cadenza chorus is an intermediate level high school performance of choral music. Students in this ensert performing music in the community, supporting school in school concerts in the winter and spring. Prescribed Using the powerful medium of music students will feelings and emotions through mature interpretation occur, discipline and support of each member of the griff Students will develop correct singing technique in a griff interpretation of the musical style will be emphasisenhance this knowledge. This knowledge will be quiensemble opportunities will be available to advanced Students will rehearse and perform a variety of styles of performances. Dress rehearsals and performances will highlights of the year is the SOUNDWAVES recital in The chorus groups often take spring performance encouraged to go because they are educational and December, after the winter concert, auditions will be hinto upper level chorus groups for the following year.	Cadenza chorus is an intermediate level high school group that enjoys the performance of choral music. Students in this ensemble have satisfying performing music in the community, supporting school culture, (when appring school concerts in the winter and spring. Prescribed concert dress is manually the powerful medium of music students will be encouraged to effectings and emotions through mature interpretation of the written music occur, discipline and support of each member of the group and director musiculated will develop correct singing technique in a group atmosphere. Reincluding melodic and rhythmic notation, sight reading skills, and interpretation of the musical style will be emphasized. On-line theory enhance this knowledge. This knowledge will be quizzed and graded. Solensemble opportunities will be available to advanced students. Students will rehearse and perform a variety of styles of music in school and performances. Dress rehearsals and performances will be part of the grade highlights of the year is the SOUNDWAVES recital in the spring. The chorus groups often take spring performance trips. Although sencouraged to go because they are educational and fun, they are not made December, after the winter concert, auditions will be held to determine stude into upper level chorus groups for the following year.			

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	ue and sight r on-line theory	eading in the study and o	eir pursuit of quizzes to chec	tory, music apprecial excellence in choral p ck understanding of co s, students will be ex	erformance. oncepts and

	present at all dress rehearsals and performances unless excused by the director. Select chorus has prescribed concert attire that is mandatory.
	Students that desire to be in Select chorus audition in late December/early January of their 9th grade year or at a further advanced grade level.
	The chorus groups often take spring performance trips. Although students are encouraged to go because they are educational and fun they are not mandatory. Performance in more than one chorus is possible depending on the student's schedule. Students interested in this class should approach Mrs. Kipp to discuss audition procedures and times.
Prerequisites	An audition that includes sight reading, theory quiz and a vocal solo.

Band		7511		1 Credit	NonWeighted	Year
Course Description	year student rehearsals an correct intona Students will pedagogies of cultural and a band is design playing skills and performants skill while en	s are expected performance ation as well as a lanalyze the luring this time social context agned to further are expected ance. Third an accouraging stu	d to develoes with the endeveloping a effect of ree. Students and interpretar develop mas the student dourth year dents to ass	p basic playinsembles. No and applying fehearsal/pract will understant these selection arching and continue to ar band further ume leadership	rching and concert being skills while part tation reading, rhythe undamental vocabulatice sessions and apid a piece based on the by classifications. Soncert band skills. It is strive for excellence or develops marching approach to participate in all	icipating in m decoding, ry is taught. ply various the historical, Second year entermediate in ensemble and playing and music
Prerequisites	• Audi	tion and/or D	irector's reco	mmendation	for all band classes.	

Orchestra		7521		1 Credit	NonWeighted	Year
Course Description	musicians the of musical sty the alternative Students acquerepertoire.	e opportunity to rles, and to und re fiddling repuire musical Students are ell perform musical	to explore the derstand the pertoire with knowledge a expected to o	e formal qualit aesthetic value continual stu and appreciat develop advar	its of all levels. This of ties of music, to perform the of music. Emphasis and reference to the ion by building their threed skills that are reliques. Students are	rm a variety is placed on the classics. r orchestral necessary to
Prerequisites	• Audi	tion and/or D	irector's reco	mmendation	for all Orchestra class	es.

Jazz Ensemble		7531		1 Credit	NonWeighted	Year
Course Description	the musical n developing s	nedium of Jazz kills in rhythm n. <u>Students ar</u>	Students r ic accuracy,	ehearse and po dynamics, arti	ppreciation of and properform as an ensemble culation, intonation and and all concerts.	e while
Prerequisites	• This	is an audition	only ensemb	ole.		

Introduction to Dance							
Course Description	This course i	s designed for	students w	ho are interes	ted in body moveme	ent and self-	
•	expression th	expression through dancing. Various dance form will be explored with emphasis on					
	ballet, jazz,	ballet, jazz, and modern techniques. This course will provide students with					
	opportunities	opportunities to develop dance skills and techniques, to express emotions and ideas					
	through mov	vement, and	to work wi	ith a varied	sample of music sty	les. Class	
	presentations	and videota	ping will e	enable the stu	adents to develop p	erformance	
	-			0	overall performance.		
					he course is open to		
	and 12 th grad	les. Students v	with advance	ed dance skills	and training may au	dition to be	
	exempted fro	m this course a	ınd be placed	d in the approp	riate level dance cour	se. Students	
	-				ould requests for this		
	a manageabl	e number as o	determined	by the instruc	tor and high school	principal, a	
	lottery to red	uce numbers t	o an accepta	ble class load v	will be conducted.		
Prerequisites				1	wear (black leotards a	ınd black	
_	tight	s purchased by	the student	:)			

Modern & Jazz Dance	1	8041		1 Credit	NonWeighted	Year
Course Description	jazz dance for being introduced have opported choreograph. Evaluation for class particity Videotaping	orms. Emphas uced to these funities to lead y. or the course is pation, selected	sis is on refi forms in the rn about n based on p d response t ssment will	Ining and enhal Introduction to novement eler erformance tast testing, open of also be used to	ate technique in both a ancing technical awa to Dance class. The s ments, styles and po- sks and rubric assessi- ended test, choreogra to elevate progress. S	reness after student will rinciples of ments, daily aphic tasks.
Prerequisites	pre-a Depa All s tight Parti Be pl basis Thos place	sdance wear cipate in the an hysically able to s. se students with ed into an adap	e class from ress in appr must be pu nual arts sho perform in n long term in ted physical	the opriate dance verchased by the nowcase and de a highly inten	wear (black leotards a e student) ress rehearsal (three e ase, physical class on a aries may be required as for the duration of	venings) daily to be

Modern & Jazz Dance	2	8042		1 Credit	NonWeighted	Year		
Course Description	The course is	s designed to	develop into	ermediate tecl	nnique in both mode	rn and jazz		
1	dance forms	Emphasis is	s on refining	g and enhanc	ing technical perforn	nance at an		
	intermediate	ntermediate level. The student will have opportunities to analyze movement elements,						
	styles and p	rinciples of c	horeography	y and to crea	ate a performance c	omposition.		
	Evaluation fo	Evaluation for the course is based on performance tasks and rubric assessments, daily						
	class particip	class participation, selected response testing, open ended tests, choreographic tasks.						
					o evaluate progress. S			
	responsible for	or a \$120 costu	me fee for Sl	nowcase.				
Prerequisites	• Mod	ern Jazz 1 and	have pre-ap	proval from de	epartment			
•	 Appr 	opriate dance	wear (black	leotards and b	lack tights or Nike			
	pros.	dancewear p	urchased by	the student).	-			
	 Parti 	cipate in the ar	nnual arts sh	owcase and di	ess rehearsal (three e	venings).		
	 Able 	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	lapted physica	l education o	class for the du	ration of the medical	excuse.		
	• Teac	ner Recommen	dation					

Modern & Jazz Dance	3	8043		1 Credit	NonWeighted	Year
Course Description	The course is jazz dance for more advance elements, stromposition. Cunningham Evaluation for class particity Videotaping	orms. Emphas ced level. The yles and pring A variety of doing in modern to por the course is pation, selected	is is on refine student vanciples of clance technical Luigi, Fosse is based on part response to the sament will assert will be assert w	ning and enha vill have opport choreography ques will be exp and Tremaine erformance tas esting, open en also be used to	red technique in both ancing technical performancing technical performancing to analyze and to create a polored-ranging from the control of t	rmance at a movement performance Graham and ments, daily aphic tasks.
Prerequisites	Appropriate Appropriate Appropriat	ropriate dancedancewear p cipate in the ar nysically able t . ents with long	wear (black ourchased by nnual arts sh o perform in term illnesse	leotards and be the student.) owcase and dread a highly interess or injuries m	ne Department. lack tights or Nike ress rehearsal (three en use, physical class on a may be required to be paration of the medical	a daily placed into

Modern & Jazz Dance	4	8044		1 Credit	NonWeighted	Year		
Course Description	This course offers the advanced dance student/performer the opportunity to further							
-	develop his/	her skill, techn	ique, choreo	graphic expert	tise, analytical reasoni	ng and peer		
	mentoring of	pportunities. T	his course ac	ccommodates	the needs of the few st	tudents who		
		have higher-level dance skills when entering the dance department at C.V. (students						
					n year). The student			
	refine advan	ced dance tec	chniques and	d genres. The	e student will act as	a teaching		
	assistant/stu	dent choreogr	apher, role 1	model, etc. Tl	here would also be a	component		
					by choreographing a			
	dance piece	and/or worki	ng as an ap	prentice with	professional dance to	eachers and		
	choreograph	ers. Students a	are responsib	ole for a \$120 c	ostume fee for Showc	ase.		
Prerequisites	• Mod	ern and Jazz D	ance					
-	 Appr 	ropriate dance	wear (black	leotards and b	olack tights or Nike			
		dancewear p		the student.)				
	• Teac	her recommen	dation					

Modern & Jazz Dance	5	8055		1 Credit	NonWeighted	Year
Course Description	develop his/ mentoring or of the few so department a student will was a teaching component rea a self-directe teachers and These items in \$120 costume	her skill, technoportunities at students who at C.V. (student work to refine a assistant/studenting the studenting the studential dance piece choreographer must be purchast fee for Showc	ique, choreo a more adva have higher ts who exen advanced da dent choreogudent to wore and/or wores. All student ased at the strase.	graphic expert nced level. The r-level dance apt Intro to Da nce techniques grapher, role m ik independen king as an ap	ormer the opportunities, analytical reasonice course accommodations when entering ance in their freshmans and genres. The stunded, etc. There woutly of the class by chorprentice with profession a black leotard and se. Students are responsible.	ng and peer es the needs g the dance n year). The dent will act ald also be a reographing sional dance black tights.
Prerequisites	• Appr Pros.	ern and Jazz D copriate dance dancewear p her recommen	wear (black ourchased by		lack tights or Nike	

Majorettes		8051		1 Credit	NonWeighted	Year
Drill Team						
Dance Troupe						
Dance Production						
Course Description	routines for e opportunity During the fi band festival class or prac audition, and Troupe will shows. Dand Competition black tights of addition to the	each season. The to practice with the practice with the practice of the sand parades. It is also to the season of the property	nis course with the marchiteriod, the uniteriod, the uniteriod of the uniteriod of the scheet of the	Il provide the ring band. The nit rehearses for second nine-visudents intereduled by the ance skills and tition team. Ton. All students in this mmer. Dance	s, and Majorettes to we majorettes and drill te class meets five (5) do preformances at fooweek period, the unit ested in taking this cadvisor. Members of will participate in self-hey will compete at the must dress in a blased at the student's class will have summatroupe also attends a carent meeting prior to	am with the lays a week. tball games, takes dance course must f the Dance everal dance a Regional ack leotard, expense. In her practices camp in July
Prerequisites	• Aud	ition & Recom	mendation o	nly		

Introduction to Theatr	Introduction to Theatre Arts			1 Credit	NonWeighted	Year	
Course Description	An exploration	An exploration that will cover both the technical and performance aspects of live theater.					
	Tech theater studies will include production concepts and design for lighting sets,						
	costumes, and make-up. Performance studies will include an introduction to the basics						
	of acting, such as theater history, stage direction terminology, voice & speech,						
	improvisation exercises, monologues & scene work.						
Prerequisites	• None	9					

Acting 1		8201		1 Credit	NonWeighted	Year		
Course Description	learn more a scenes, and opportunities	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.						
	to perform in number as d required to d	n an acting pro letermined by o a monologue	duction. She the instruct audition for	ould request for and high s	12. All students will or this class exceed a chool principal, studenthe class.	manageable		
Prerequisites	• Intro	duction to The	atre Arts					

Acting 2 & 3		8202		1 Credit	NonWeighted	Year		
Course Description	course is for s more about the and one act p develop creat performance	students who a his art. Student plays. Class p ativity while s open to all stu	re interested ts will perfor resentations supplying t udents in gra	in an acting ca m improvisati and videotap he student v des 9 through	training in the art of A areer or who merely v ons, work on monologing will provide opposite immediate feed	vant to learn gues, scenes, ortunities to lback about be required		
	to perform in an acting production. Should request for this class exceed a manageable number as determined by the instructor and high school principal, students will be required to do a monologue audition for placement in the class.							
Prerequisites		ng 1 and/or Int ition and teach						



Physical Education



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 heathy and active life style. Health and Physical Education plays an integral role in a comprehensive educational program. This program will engage and help inspire students to pursue a lifetime of fitness activities and healthy decisions.

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

Physical Education **Required for 9th & 10th Grades		8032		.25 Credit	NonWeighted	Semester (4 days)
Course Description	and physica maintain a h develop posi will have t	l activity. Ac nealthy active tive attitudes, i he opportunit	tivities will lifestyle. T responsible ty to partic	enable stude The course is c habits, and exh cipate in; swi	Education is lifetime fit nts to develop skills r designed to enhance ac libit good sportsmanshi mming, fitness, weig ll and ultimate Frisbee	necessary to ctivity level, ip. Students ht training,
Prerequisites	• Non	e				

Health (9th & 10th Grad	les)	8025		.25 Credit	NonWeighted	Semester		
						(4 days)		
Course Description	Chartiers Valley Health to learn about physical importance of making Students are encourage and applying prevental scenarios and understant mental health, mental	l, mental arg healthy of the development of the development of the impart of the impar	nd soci decisic lop op ies. St act of	ial aspects of hons that will litimal health the udents will corpersonal choice	lealth. Emphasis is p lead to a higher quant hrough recognizing b nnect academic contents. Units of study inc	laced on the ality of life. nealth issues nt to real life clude; stress,		
	school violence, nutrition, physical fitness, non-communicable diseases, SDI's, human sexuality, CPR, first Aid, environmental health, tobacco, alcohol and drugs.							
Prerequisites	Departmental			,	,			

Adventure Activities (**11th & 12th Grades	(2 days)	8033		.25 Credit	NonWeighted	Year (2 days)
Course Description	Frisbee, arch activities, or	ery, kayaking,	canoeing, v ng, recreation	olleyball, rolle	ide: physical fitness, ulerblading/hockey, team ports (pickle ball, badm	n building
Prerequisites	• 11 th	& 12 th grade				

Lifetime Activities		8034		.25 Credit	NonWeighted	Year
						2 Days
Course Description	tennis, recrea		sports (pick	de ball, badmi	ude: physical fitness nton, and table tennic alcohol unit.	2
Prerequisites	• 11 th a	and 12th grade s	students			

Drivers Theory		8027		.5 Credit	NonWeighted	Semester 5 Days
Course Description	techniques. application of accordance w	The elective f how to operation of the following the fol	course intrate an auton	oduces studen nobile, rules and information	itudes necessary for nts to the theory and nd regulations. Curr n from the PA driver' d their consequences	safe driving and practical iculum is in shandbook;
Prerequisites	• 10 th ,	11 th , and 12 th g	rade student	:S	-	

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

Partners in Physical Ed	ducation	8038		.25 Credit	NonWeighted	Year	
						(2 Days)	
Course Description	This course i	s designed for	students w	ho are interes	ted in exploring a care	er path that	
•	involves working with students with special needs. The Partner in Physical Education						
	course (Partner PE) is an inclusive approach to physical education that pairs 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 particij	oate in PE cla	ss. The activ	ities are desig	gned to help promote	leisure-time	
	activities and	d awareness of	the importa	ance of good p	personal fitness. Activi	ities include	
	but are not limited to weight training, racquet sports, fitness, diamond sports, kayaking,						
	swimming and team building.						
Prerequisites	• 11 th	12 th grades					

Dance								
Course Description	Students may	Students may choose any dance course in the Performing Arts section of the Academic						
	Handbook. Please see the Performing Arts section or course numbers and prerequisites.							
	Dance will meet PE requirements for all grade levels.							
Prerequisites	• All g	rade 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 u	. The emphasing as basic biologand transport, Students will and apply their use of case study intended for several states.	is for the con ogical princi cell growth I work inder r skills. App dies, role pla students who	urse is on the ples/cells, che and reproduct bendently, in s lication to reallys, hands on a o may or may	a solid foundation of big ideas and unifyin emical basis of life, bition, genetics, theory emall groups and larg I world concepts are ctivities and laborator not be college bound higher level science e	g themes in coenergetics, of evolution ge groups to emphasized ry exercises. and
Prerequisites	• None	e				

Honors Biology		3133	Honors	1 Credit	5.0 Weight	Year
Course Description	the study of I themes in bic life, bioeners genetics, ecol review. Stuconcepts. Texercises who motivated, contact of the study of I themes in bic life.	iving things. Tology. Topics in getics, homeostogy, and evolu- dents will wor he course inciden appropriat	The framework th	rk for the course biological printed transport, rigorous coursependently and and-on activiturse is intendy will take or	provides an in-depth of se is on the big ideas an in-depth of se is on the big ideas and inciples/cells, the chemical growth and rese that requires daily and in groups to applities, role plays, and ed for students that he or more Advanced	nd unifying nical basis of production, reading and y biological laboratory are highly
Prerequisites		in 8 th grade sci her recommen				

Biological Application	ıs	3222		1 Credit	NonWeighted	Year
Course Description	explore the contraits of bact biotechnolog order to obsequences appreciate the contract of the	Biological Applications is a one year course that builds on basic biological concepts explore the diversity of life on Earth. The emphasis of the course is to investigate traits of bacteria, viruses, protists, fungi, plants, and animals, as well as the role biotechnology. The students will participate in various laboratory investigations order to observe the various forms of life and will also integrate current events to beth understand the complexity of life. The topics will allow students to understand appreciate the role of biodiversity, as well as the importance of biological diversity modern day society. The course is intended for students who may or may not be colleged.		vestigate the the role of stigations in this to better erstand and diversity in		
Prerequisites	• Biolo	gy Lab or Hor	nors Biology			

Applied Chemistry		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 i	non-science related field. This course provides students with an understanding of basic					
	principles of	principles of chemistry through classroom lectures and discussions, online assignments,					
	classroom activities, small scale labs and research assignments. This course should						
	contribute to	contribute to the development of the student's ability to think clearly and to express their					
	ideas orally	ideas orally and in writing with clarity and logic. This course differs from the other					
	courses by th	e depth and ni	umber of top	ics addressed,	slower pace, the mini	imal level of	
	mathematica	l analysis requ	ired and the	nature and va	ariety of experiments	done in the	
	laboratory. 7	Topics covered	l 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 mee	et the prere	quisite requir	ement for Advanced	Placement	
	Chemistry.	1 1 1					
Prerequisites	• 70%	or better in Alg	gebra 1 OR s	uccessful comp	pletion of Biological A	pplications	

Chemistry w/ Lab		3331		1 Credit	NonWeighted	Year			
Course Description	non-science i	This is a 1 st year chemistry course intended for students planning to attend college in a non-science related field. This course provides students with an understanding of basic principles of chemistry through classroom lectures and discussions, PHET simulations,							
	classroom ac development in writing wi and number time commit weekly expe dimensional	tivities, and la c of the student th clarity and l of topics addre ment spent on eriments done analysis, matt	aboratory tec 's ability to the ogic. This consessed, pace, the the course in the laboration at the course er, atomic st	chniques. This nink clearly an urse differs from the level of mathematical by the studenth poratory. Top ructure include	course should contr d to express their idea om the other courses lathematical analysis r tts, and the nature an ics covered in this ding radioactive deca chiometry, bonding, a	ibute to the as orally and by the depth equired, the d variety of course are by, quantum			
Prerequisites	• 70% • 80%	in Biology OR in Algebra 1 A her Recommen	pass Honors ND 70% or b	Biology		aria gus iums			

CiHS Chemistry		3340	CiHS	1 Credit	5.0 Weight	Year
Course Description	semester coll college in a sunderstandir discussions, contribute to ideas orally courses by mathematica courses by the are at collegatomic structure quantum mergases.	ege level chem science or non-sing of basic p classroom act the developme and in writing the depth and l analysis require students. The level. Topics ture, nomencla chanics, period	istry course science relaterinciples of tivities, and with clarity and a genature and covered in ture, stoichtic table, period	and is intended ted field. This of the chemistry to the laboratory to the laboratory to the laboratory to the laboratory and logic. The laboratory and logic. The laboratory and logic trends are the course and this course a liometry, reaction trends, both Duquesne United to the laboratory.	course that is equivaled for students planniculars provides students planniculars provides students planniculars. This coup think clearly and to entire course differs from the course from the course of the course differs from the course differs from the course from the course differs from the course differs from the course from the	ng to attend ents with an ectures and urse should express their m the other gh level of her first year e laboratory hal analysis, hochemistry, metries, and
		taking AP Chei				
Prerequisites		in Honors Biol	0,	0,		
	• 93%	or better in Alg	gebra 1 ANI	0 88% or better	in Geometry	
	Teac	her Recommen	dation			

AP Chemistry		3341	AP	1 Credit	5.5 Weight	Year	
Course Description	This elective course is a 2 nd year Advanced Placement chemistry course that is						
•	equivalent to	equivalent to two semesters of college level chemistry and is intended for 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 rigorous training needed for success on the AP chemistry test and SAT II						
	Chemistry subject based test. This course should contribute to the development of the						
	student's ability to think clearly and to express their ideas orally and in writing with						
	clarity and lo	gic. This is a r	igorous cour	se that require	es a large time comm	itment since	
	the course it	self is fast pac	ed in order	to have stud	ents prepared for the	e Advanced	
					dents are expected to		
	Exam as a co	emponent of the	nis course. S	ummer readir	ng and assignments a	re required.	
	Failure to con	nplete summe	r assignmen	ts will result ir	n a grade penalty. Top	pics covered	
	in this course	explores the ar	reas of atomi	c structure, che	emical bonding, chem	ical kinetics,	
	equilibrium, kinetic molecular theory, acid-base theory, electrochemistry and a review						
	of first year to	opics.					
Prerequisites	• 70%	in CIHS Chem	istry or 90%	in Chemistry v	w/Lab		

Anatomy & Physiolog	y	3350		1 Credit	NonWeighted	Year		
Course Description	This junior a	nd senior elec	ctive course	is designed to	be a rigorous, in dep	oth study of		
•	human anato	my and physi	ology. The s	tructure, func	tion 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 recommended for students that are interested in pursuing a career in the medical field							
	such as phy	sicians, physic	cian assistan	ts, nurses, me	edical technologists,	paramedics,		
	scientists, ph	ysical therapis	ts, occupatio	nal therapists,	geneticists, techniciai	ns, forensics		
	and bioinformatics. This course is not a replacement for AP science courses.							
Prerequisites	• Succe	Successful completion of Chemistry						
1	• Teacl	her recommen	dation	-				

Practical Physics		3421		1 Credit	NonWeighted	Year
Course Description	non-science r matter and e classroom ac mathematica problems. A motion and f	related field. Tenergy through ctivities, labs l analysis along basic investiga	This course p h classroom and project g with conce ative approa d. These top	rovides studer lectures and is throughout ptual applicati ch dealing wi ics lead to the	s planning to pursue nts with a basic under discussions, online at the year. Studen on of concepts to solv the interrelationsh investigations of various plants.	rstanding of assignments, ts will use e real world ips of mass,
Prerequisites	Geor • Com	essful completi netry pleted chemist her Recommen	ry	s Geometry or	75% or higher in Cor	nbined

AP Physics 1		3441	AP	1 Credit	5.5 Weight	Year	
Course Description	Advanced Placement Physics 1 is a first year physics course that is equivalent to 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 rotational motion), work, energy, power, mechanical waves, sound and introduction to simple circuits. • CIHS Chemistry or 80% in Lab Chemistry						
Prerequisites				Chemistry			
	• Teac	her recommen	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 is equivalent to a second semester introductory college-level physics course. This course will focus on students' problem solving and lab skills. Students will cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as fluid statics and dynamics; thermodynamics with kinetic theory; PV diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics; and quantum, atomic, and nuclear physics.						
Prerequisites		essful completi her Recommen		ysics 1 or 90%	in Practical Physics		
	• reac	ner Kecommen	luation				

AP Physics C: Mechanics		3450	AP	.5 Credit	5.5 Weight	Semester	
Course Description	The Physics C: Mechanics elective course is equivalent to a one-semester, calculus-						
_	based, college-level physics course. It is especially appropriate for students planning to						
	specialize or major in physical science or engineering. The course explores topics such						
	as kinematics; Newton's laws of motion; work, energy and power; systems of particles						
	and linear momentum; circular motion and rotation; and oscillations and gravitation.						
	Introductory	differential an	d integral ca	lculus is used	throughout the cours	e.	
Prerequisites	Succe	essful completi	on of AP Ph	ysics 1			
1	• Succ	essful completi	on of AP Ca	lculus or curre	ently enrolled		

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

AP Biology		3442	AP	1 Credit	5.5 Weight	Year			
Course Description	The Advance	d Placement B	Biology cours	e is an electiv	e designed to be the e	quivalent of			
•	a college biol	ogy course usu	ally taken by	biology major	s during their first yea	ar of college.			
	The course ai	ms to provide s	students witl	n the conceptu	al framework, factual	knowledge,			
	and analytic	al skills necess	sary to deal	critically with	n the rapidly changir	ng world of			
	biology. The	curriculum is	built around	the four big is	deas in AP Biology. T	hey include			
	1.) The proce	1.) The process of evolution drives the diversity and unity of life. 2.) Biological systems							
	utilize free e	nergy and mo	lecular buil	ding blocks to	grow, reproduce ar	nd maintain			
	dynamic ho	meostasis. 3.)	Living syste	ems store, ret	rieve, transmit and	respond to			
	information e	essential to life	processes. 4.) Biological sys	stems interact. These s	systems and			
	their interact	tions possess	complex pro	perties. Exter	nsion homework and	laboratory			
	work are req	uired. Students	s are expecte	d to perform e	extensive readings in	biology and			
	are expected	to take the AP	Biology exa	m.					
Prerequisites	• Succ	essful completi	on of Biolog	y and concurr	ently enrolled or com	pletion of			
	Cher	Chemistry							
	• Teac	her Recommen	dation						

Principles of Biomedic	cal Science (PBS)	3355	PLTW	1 Credit	5.0 Weight	Year		
Course Description	This is the first course offering in the Project Lead the Way Biomedical Sciences curriculum. This rigorous elective course is offered to 9th and 10th grade students who may be interested in various professions in the medical field including, but not limited to <i>physicians</i> , <i>physician assistant</i> , <i>nurses</i> , <i>medical technologists</i> , <i>paramedics</i> , <i>scientists</i> , <i>physical therapists</i> , <i>occupational therapists</i> , <i>genetic counselors</i> , <i>technicians and bioinformatics</i> . Student work involves the study of human medicine, research processes, an introduction							
	to bioinformatics, and to model and analyze and various health hypercholesterolemic death of a fictional period metabolism, inheritatembedded in the cufeedback loops and curriculum. This co Biomedical Sciences	d the use of the biological conditions a and inference of transcription. The relation urse is deprogram a	of computer all systems. So including ctious disease investigate son's life. Konits, feedball Engineering on ship of soigned to pund lay the formal systems.	science, math Students inverse heart disea ase. They dete elife-style choos ey biological ck systems a ang principles tructure to forovide an ox foundation for	nematics, and informatestigate the human bose, diabetes, sickle-cermine the factors that bices and medical treat concepts including hand defense against including the designation are incorporterview of all the coor subsequent courses	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 	ner or scho	ol counselo	r recommend	dation			

Human Body Systems	(HBS)	3360	PLTW	1 Credit	5.0 Weight	Year			
Course Description	This is the 2 nd course offering in the Project Lead the Way Biomedical Sciences curriculum. This is a rigorous elective course offered to 10 th and 11 th graders that have completed Principles of Biomedical Science and are interested in professions in the medical field including physicians, physician assistants, nurses, medical technologists, paramedics, scientists, physical therapists, occupational therapists, geneticists, technicians, forensics and bioinformatics. In the Human Body Systems (HBS) course, students examine the interactions of body systems as they explore identity, communication, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal Manikin, work through interesting real world cases, and often play the role of biomedical professionals to solve medical mysteries. Students practice problems solving with structured activities and progress to open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills.								
Prerequisites		ciples of Biome her recommend		e					

Medical Interventions		3365	PLTW	1 Credit	5.0 Weight	Year	
Course Description	This is the t	hird course of	fering in th	e Project Lead	d the Way Biomedic	al Sciences	
•	curriculum.	Γhis rigorous e	lective cour	se is offered to	11th and 12th grade s	tudents that	
	have completed Principles of Biomedical Science and Human Body Systems.						
	In Medical Interventions, students follow the life of a fictitious family as they investigate						
	how to prevent, diagnose, and treat disease. Students explore how to detect and fight						
	infection; screen and evaluate the code in human DNA; evaluate cancer treatment						
	options; and	prevail when	the organs of	of the body be	gins to fail. Through	n real-world	
					related to immunolo	gy, surgery,	
	genetics, pha	rmacology, me	edical device	s, and diagnos	tics.		
Prerequisites	• Princ	ciples of Biome	dical Science	e and Human I	Body Systems		
_	Teacher recommendation						
	• May	be taken concu	ırrently with	n Biomedical Ir	nnovation		

Biomedical Innovation	า	3370	PLTW	1 Credit	5.0 Weight	Year		
Course Description	In this capsto	In this capstone elective Project Lead the Way course, students apply their knowledge						
•	and skills to	answer quest	ions or solve	e problems re	lated to the biomedic	cal sciences.		
	Students design innovative solutions for the health challenges of the 21st century as they							
	work through progressively challenging open-ended problems, addressing topics such							
	as clinical medicine, physiology, biomedical engineering, and public health. They have							
	the opportunity to work on an independent project and may work with a mentor or							
	advisor from	a university,	hospital, pl	hysician's offi	ce, or industry. Thro	oughout the		
	course, stude	ents are expec	ted to prese	ent their work	to an adult audiend	ce that may		
	include repre	sentatives fror	n the local b	usiness and he	althcare community.			
	(PLTW webs	ite 2016)						
Prerequisites	• Princ	riples of Biome	dical Science	and Human l	Body Systems			
-	Currently enrolled or completion of Medical Interventions							
	• Teacl	her recommen	dation					



Social Studies



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

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

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

ID	Course Name	ID	Course Name	ID	Course Name
4000	Development of the United	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 9th grade: 1800-1945. The as a world power the growth of the growth	required course e century and a ver. Students w olution, the epic the country thro the frontier. rican War) and the world spott the American s ents will learn the	half is a privill examinate struggle cough imminate. Then, studing light. The tate in the totake not involved in the state	studies is a surivotal period in e the consolidate the issue of gration, industed dents will study dents will study ends a study ends 20th century, tes, write substantial surivors, and seminars, and	vey of United States In our history when we ation of the United States of slavery leading to the trialization, urbanizatedy the conflicts of the I) centuries that cate with examining the the Great Depression stantive essays, computed other activities that a moderate pace.	nistory from e developed ates after the de Civil War, dion, and the che late 19 th dapulted the two major and World lete project-
Prerequisites	• None	<u> </u>			•	

Honors - Development of the		4002	Honors	1 Credit	5.0 Weight	Year	
United States							
Course Description	This required 9th grade course provides 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 ta		
		-		istory. Studer	nts will also be challe	nged by the	
	high expecta	tions of the Co	llege Board.				
Prerequisites	85% or better in 8 th grade Social Studies						
-	 Teac 	her recommen	dation				

World Cultures		4005		1 Credit	NonWeighted	Year
Course Description	East, Latin A course explorereligious beli interdependerights. Stude better unders experienced that and critical a in a concise cooperative some operative some Industrial Relimperialism, course will counse will consequence will be a supported with the counse	merica, East Astres various polices; and econorence as it relatents will be restand specific exthem firsthand analysis; summ manner; expecting; and use execution, Rev. World War I,	sia, and Africitical ideological ideologic	ca from the 170 gies; gender roles; gender roles; gender roles; gender roles; gender roles; gender g	es of people in Europe 200s through the prese 200s through the prese 200s through the prese 200s through the present, conflict 200s anagement, conflict 200s anagement, conflict 200s and evaluate inform 200s and evaluate informatic 200s and evaluate 200s and evaluate informatic 200s and evaluate 200s	ent day. The ens; conflicts; stand global and human in order to people who apprehension nation; write bitions in a on. Yolution, the halism, New nester of the
Prerequisites	• None	e				

Honors World Culture	es	4006	Honors	1 Credit	5.0 Weight	Year
Course Description	conflicts, revelent throughout the culture, resolution understand the and present is source documperspective of refine their categorize, confacts and opin setting; and understand the first semi-french Revolutionalism, semester of the Emergence of the culture of	volutions, religions relig	gious belief dents will in- ent, conflict ontent and to sis of current to better und who experies and for comp st and evaluate written and of gy appropriate ourse will be ustrial Revolution, the Great cover the In- , Regional C	es and econor vestigate globa and human rigo o make historic that affairs. Stud- erstand specific need them firs prehension and atteinformation oral forms; pro- attely to present that a comprehension, Revolution, at War and the terwar Period, onflicts and the	ider roles, social or mic systems will be al interdependence as ghts. Students will be cal connections between the suil be exposed in events or time period thand. Students will ad critical analysis; in; write in a concise student exhibitions in a at and comprehend in sive study of the Enlions in Latin Americal Russian Revolution. World War II, the Cole Developing World.	be explored it relates to expected to een the past to primary ods from the continue to summarize, tyle; express cooperative formation.
Prerequisites	• 90%.	in Honors Ame Advanced Am her recommene	erican Cultu			

Contemporary US/Global Studies		4010		1 Credit	NonWeighted	Year	
Course Description	This course wi	ll guide stud	ents from 19	45 through the	e early 21st century. S	tudents will	
•	examine the political, economic, social and cultural development of the United States						
	from the end of World War II to present times. The essential standards of American						
	History will trace the change in the ethnic composition of American society; the						
	movement toward equal rights for racial minorities and women; and the role of the						
	United States as a major world power. An emphasis is placed on the expanding role of						
	the federal gov	ernment and	federal cour	ts as well as th	ne continuing tension	between the	
	individual and	l the state. Th	ne desired ou	atcome of this	course is for students	s to develop	
	an understand	ing of the cau	ıse-and-effec	t relationship	between past and pre	sent events,	
	recognize patte	erns of intera	ctions, and u	nderstand the	impact of events on in	n the United	
	States in an interconnected 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 i	century and into the 21st century. It will examine the forces and shaping agents that have								
	1	produced great changes since circa 1900 and integrate the United States experience with								
	_	that of Europe, Asia, Latin America, and Africa. An intense study of the last 50 years								
		will give the students a better perspective and understanding of their own world and								
	have the 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	urse is articulat	ed through l	Duquesne Uni	versity, there is a fee	involved for				
	students who want to earn college credits. Students may obtain three college credits.									
Prerequisites	• 85%	85% in Advanced or Honors Social Studies								
	 Teac 	her recommen	dation							

AP U.S. Government a	AP U.S. Government and		AP	1 Credit	5.5 Weight	Year
Politics						
Course Description	government general conc examples. T and politics v consequence College-level	and politics in epts used to in the institutions, will be studied as, and the structures, texts and other structures.	the United S interpret our, groups, bel In addition cture and pr er college-lev	tates. This ele r political sys iefs, and ideas theories of good cocedures of owel materials a	s is an analytical per ctive course includes tem and the analysis s that constitute U.S. povernment, political b ur government will be re used in the class. ntegral part of the cla	the study of s of specific government ehavior and be reviewed. Preparation
Prerequisites	• 11th and 12th grade					

AP Psychology		4347	AP	1 Credit	5.5 Weight	Year			
Course Description	Psychology is	s the scientific	study of the	human mind a	and behavior. The pu	rpose of this			
-	Advanced Pl	Advanced Placement/College in the High School elective course is to further acquaint							
	students with	students with the field of psychology, promote critical thinking skills, explore cross-							
	cultural per	cultural perspectives, analyze popular media claims, and examine published							
	psychologica	psychological research. The course is a combination of lecture, lab activities, cooperative							
	activities, re	activities, research essays, and presentations. Sample topics include personality,							
	development, research, abnormal psychology, memory, and learning. Students who								
	elect to pure	elect to purchase credits through the University of Pittsburgh will complete four							
	quarterly exa	ms and a cum	ulative final.	Students who	do not purchase the	CiHS credits			
	are expected	to take the AP	Psychology	exam at the co	nclusion of the cours	e.			
Prerequisites	• 90%	in Psychology	or						
-	• 85%	0.707							
	• 85%	in CIHS Shapii	ng of the Mo	dern World					
	Teacl	her Recommen	ndation						

AP United States Histo	ory	4348	AP	1 Credit	5.5 Weight	Year				
Course Description	Advanced P	Advanced Placement U.S. History (APUSH) is a rigorous college-level introductory								
-				-	natic, intellectual, cult					
		•			H is arguably one o					
		challenging of the courses offered by the College Board. As a result, a variety of								
		instructional approaches are employed and a college level textbook is supplemented by								
		primary and secondary sources. Significant outside reading and assignments are								
	required for	required for success in this course.								
	and factual documents p of course wil	The curriculum of this course is designed to help students develop critical thinking skills and factual knowledge necessary to deal analytically with the complex history and documents presented in U.S. history. The complexity of topics, discussions and tempo of course will better prepare students for the rigors of college level courses. Students will conclude the year with a National Exam from College Board in May.								
Prerequisites	• 11 th a	and 12 th grade				_				
_	• 90%	in an Honors c	ourse or							
	• 95%	in an Advance	d social stud	ies						

Psychology	4405		1 Credit	NonWeighted	Year	
Course Description	research met include scie perception, s course will cl	hods, and connific method states of consc	tributions to s in psycho iousness, lea nts to use the	the understar ology, biologi arning, memor eir metacognit	y and its basic concept ading of human behangled psychology, sergy, cognition and land ive abilities in order to self.	vior. Topics nsation and guage. This
Prerequisites	• 11th	and 12th grade	2			

Economics		4406		1 Credit	NonWeighted	Year
Course Description	to the individual issues such a cycle. Macro policy, interrethe history of	dual and other is the law of subsections is the law of subsections is the law of economic the law of the law of economic the l	economic sy apply and do ues will included compara nought as w	stems. Specifications stems. Specification stems and the money are tive economic rell as currents	ican economic system ic units will cover mic s of production, and to nd banking, monetar systems. We will be t economic issues. ing and challenging c	croeconomic the business y and fiscal touching on The current
Prerequisites	• 11 th (or 12 th grade				

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

AP Macroeconomics		4409	AP	1 Credit	5.5 Weight	Year			
Course Description	The goal of this elective course is to give students a thorough understanding of the								
•	principles of	economics that	t apply to th	e functions of	individual decision n	nakers, 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,								
			1 ,	0 1	rsis, and presentation				
	1				at the conclusion of				
					Failure to comple	te summer			
		will result in a	weighted pe	enalty.					
Prerequisites		or 12 grade							
	• 90% in Honors World								
	85% in AP U.S. or CIHS Shaping								
	Teacl	her recommend	dation						

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



World Languages



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		
5021	German 1	5110	Spanish 2		

French 1		5011		1 Credit	NonWeighted	Year
Course Description	communicate emphasis place culture, include component. I addition, stude games, and proto incorporate Also, students monsieur sand proficiency-ba French as well	on everyday of the ded on the skill ling study of the Music and film ents also take pojects. Integrate authentic mater participate in dwiches, and lesed, and stude as understand	topics in ls of lister ne country a clips are part in a vad Performarials, speak cultural e earning al and follow	the present a ning, speaking as well as a u used to reint riety of creative ance Assessme sing opportunity periences suc pout French In pected to come by basic classroom	ademic learner, stude nd near future, with and pronunciation. unit on Paris, is a ver- force concepts and sive activities, including ents (IPA) are used with ties and listening com- ch as making crêpes noliday traditions. The municate as much as om directions in Frence	The French y important kills too. In g role-plays, the every unit aprehension. and croque ne course is a possible in
Prerequisites	• 75% ir	18th Grade Fren	ich or Teac	her recommer	ndation	

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

French 3		5013		1 Credit	NonWeighted	Year		
Course Description	emphasis on well as short French literate century Fren level. Studen interpersonal proficiency be grammar skil Students will ACTFL profi	This course continues to build proficiency in listening and speaking while increasing emphasis on reading and writing. Students write longer and more complex sentences as well as short essays. More emphasis is placed on independent reading of authentic French literature and non-fiction cultural pieces relating to French Africa, 19th & 20th century French art, French heritage and other topics. A film study is included at this level. Students use Integrated Performance Assessment lessons (interpretive reading, interpersonal communication, presentational communication) to increase their proficiency by integrating reading, writing, listening comprehension and speaking. New grammar skills are introduced, but students are expected to apply skills already learned. Students will participate in speaking proficiency assessments in accordance with the ACTFL proficiency guidelines.						
Prerequisites		in French 2 (se her Recommen		er)				

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

German 1		5021		1 Credit	NonWeighted	Year	
Course Description	understandir Basic speech these new s concepts are	ng, speaking, and patterns are in peech patterns	nd writing ir ntroduced and s and adapone student m	n German with nd practiced o t them to vai	ler to develop comin a restricted area of rally. Students will the rying situations. Basesponsibility of self-di	vocabulary. hen practice ic grammar	
Prerequisites	9th graders - 75% in 8th grade Modern Language class.						
	 Teacl 	her recommen	dation				

German 2		5022		1 Credit	NonWeighted	Year
Course Description	speaking and controlled rea expanded and	writing skills. ding increas l completed.	. Vocabulary ses as the y Conversation	is introduced rear progresse on and other	ntinues to develop the more rapidly, and the es. Basic grammar control oral activities are staticipline and self-direct	e amount of oncepts are ressed. The
Prerequisites		n German 1 (2 er recommen				

German 3		5023		1 Credit	NonWeighted	Year	
Course Description	This full-year elective course continues to build proficiency in listening and speaking while increasing emphasis on reading and writing. There is extensive building of both active and passive vocabulary. Grammar continues to be developed at an intermediate level. Supplementary audio excerpts, videos, and websites reinforce situational German vocabulary. The student must assume responsibility of self-discipline and self-direction in the classroom.						
Prerequisites		in German 2 (2	,				
	Teacher Recommendation						

CiHS German 4		5024	CiHS	1 Credit	5.0 Weight	Year
Course Description	development and literary t cultural trend	of oral and we exts, review grals and issues.	ritten skills. ammar in the	Students will i e context of site Duquesne Uni	e is designed to coread and discuss select uations and readings, versity, there is a fee i	eted cultural and explore
Prerequisites		in German 3 her Recommer	ndation			

Spanish 1		5108		1 Credit	NonWeighted	Year	
Course Description	This is a full year elective course designed for students to acquire basic proficiency skills in Spanish – listening, speaking, reading, and writing. A content based approach to language learning is introduced; knowledge of other subjects is reinforced through the use of Spanish. Please note: Students who are new to Chartiers Valley School District have the option to test into Spanish 2.						
Prerequisites	StudStud		han 75% in C ew to Charti	Grade 8 at Cha	at Chartiers Valley; ortiers Valley Spanish; ool District.		

Spanish 2		5110		1 Credit	NonWeighted	Year
Course Description	This is a full-year elective course that incorporates a mix of everyday conversational topics and content-based lessons connected primarily to English and Social Studies themes. An increase in language proficiency is accomplished through reading, writing, listening, and speaking practice.					
Prerequisites	 75% Grade 8 Spanish at Chartiers Valley or Spanish 1 at Chartiers Valley-2nd semester Teacher Recommendation 					

Spanish 3		5112		1 Credit	NonWeighted	Year		
Course Description	This is a full-year elective course that incorporates a mix of everyday conversational							
_	topics and content-based lessons connected primarily to Humanities themes. Students							
	will expand their vocabulary and grammar knowledge while building proficiency with							
	more extensive reading, writing, listening, and speaking tasks.							
Prerequisites	• 75% in Spanish 2 – 2 nd semester							
-	Teacher Recommendation							

CiHS Spanish 4		5114	CiHS	1 Credit	5.0 Weight	Year
Course Description	emphasis on listening for c mastery of es Hispanic cou Since this cou	extensive read comprehension sential gramm ntries are an ir	ding, writing and promot atical concep ategral part c and through l	g, and commu ting fluency in ots is expected. of the course. Duquesne Uni	ers an advanced curri nication skills. There speech. An ability to a Historical and cultur versity, there is a fee i	is focus on demonstrate al aspects of
Prerequisites		in Spanish 3 her Recommer	dation			
	• reac	ner Kecommer	idation			

AP Spanish Language		5116	AP	1 Credit	5.5 Weight	Year	
Course Description	The purpose greater profice resources in thematic unit Spanish Land presentations, Language Leanguage Lean	of Advanced ciency and more meaningful sites will augmen guage, studend scenarios of Comparisons, arning in the 2	Placement (re accurate a tuations. List and enhants will conwithin the and Commatt and Commatt and Commatt Century.	AP) Spanish I pplication of latening, speaking vocabulary municate in five goal amunities) outling.	Language is to guide anguage skills by using, reading, and wrand grammar acquist interpersonal, interpreas (Communicationed in the Standards similar to most thirditing in the target languages.	students to ng authentic iting within ition. In AP pretive, and n, Culture, for Foreign year college	
Prerequisites	advanced level. Failure to complete the summer assignments will result in a grade penalty. 80% in CIHS Spanish 4 Teacher Recommendation						



Parkway West



Career & Technical Center

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

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

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

Belmont Technical College
California University
Community College of Allegheny County

Empire Education Group ITT Technical Institute

New Castle School of Trades

Pennsylvania College of Technology

Pittal and Acta Institute

Pittal and Tack and Institute

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:

ID	Course Name	ID	Course Name
9113: 4 Credits	Auto Body Repair	9173: 4 Credits	Health Assistant
9313: 3 Credits		9373: 3 Credits	
9119: 4 Credits	Automotive Technology	9155: 4 credits	Informational Technology Essentials
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	Digital Multimedia		
9389: 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 pre Education Foundation (NA for repair and replacement collision damage and replacement also includes painting, MIC analysis. Students gain computerized estimating, as a full-service auto body re Level Paint and I-Car MIG	TEF) and protect of damage ce quarter protect welding, converse indicate at the control auto details shop. S	ovides instructived automobile banels, door skoollision repair, mixing and ailing. Practicatudents have t	ion in the most curren parts. Students leadins, and fenders. The frame straightening, a tinting paint, custo all experience is provide the opportunity to ear	t techniques rn to repair curriculum and damage m painting, ded through rn PPG Blue
Prerequisites	• None			,	

Automotive Technolog	Automotive Technology			4 Credits	NonWeighted	Year
		9319		3 Credits		
Course Description	Foundation of through Autore Pennsylvania maintenance components, troubleshoot diagnostic ed Under the Astudents mai Students car	(NATEF) and comotive Youth a State Inspect, repair, and and fuel aring and engir quipment. Practionative You qualify to be arn certificate.	affiliated wi Educational tion License replacement d electrical ne performa actical experi uth Education ecome an a	th all of the real Systems (AYE) examination at of drive systems. Since via the rence is also ponal Systems opprentice work AYES, the National Systems of the systems of th	utomotive Technolog major automotive ma ES). Students prepare. Students learn be trains, brake system of state-of-the-arrovided in the automotive manufacture for automal Institute for manufacture.	inufacturers e to take the asic vehicle ms, chassis placed on et electronic repair shop. ip program, technicians. Automotive
Prerequisites	• None	2				

Construction Technolo	ogy Cluster	9137		4 Credits	NonWeighted	Year		
		9337		3 Credits				
Course Description	First-year students spend nine weeks in the following four courses offered in the Construction Technology Cluster. They are <i>Building Construction Technology, Electrical Systems Technology, Welding Technology, and Masonry.</i> Upon successful completion of the rotation, second-year students may choose to pursue certification in one of the following areas for the remainder of their time at PWCTC: Building Construction Technology A student in Building Construction Technology							
	skills to layout power tools, s program inclu estimating, blu the opportuni	A student in Building Construction Trades 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.						
	The Electrical of the electrical light industrial wiring, maint programmable covered. Adhe	e Electrical Systems Technology program teaches students the integral components the electrical industry for entry level employment in residential, commercial, and/or not industrial locations. The basis of instruction is in the layout, assembly, installation, ring, maintenance, and trouble-shooting of electrical systems. Understanding ogrammable logistical controls (PLC's) and how transformers operate are also rered. Adherence to the National Electric Code is emphasized throughout this course well as trade safety procedures. This program may lead to additional career pathways						

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		
	9343		3 Credits					
Course Description								
Prerequisites	• None	e						

Culinary Arts	9161	4 Credits	NonWeighted	Year
	9361	3 Credits		

Course Description	The Culinary Arts program provides practical instruction in the preparation of banquet,							
•	buffet, and a la carte styles of food preparation. Practical experience is provided through							
	the operation and management of an in-house, full-service restaurant and beyond the							
	restaurant environment to provide goods and services for Parkway's food store, where							
	pastries and select meats are sold. Students learn to design cakes, sculpt ice, and prepare							
	many different types of cuisine. First-year students spend one school year in Culinary							
	Arts Level I. Second and third-year students will advance into Culinary Arts Levels II							
	and III. Senior students who have completed at least two years of Culinary Arts will							
	have the opportunity to earn both the National Restaurant Association's ServSafe							
	certification and the American Culinary Federation certification.							
Prerequisites	None							

Digital Multimedia		9190		4 Credits	NonWeighted	Year
		9389		3 Credits		
Course Description	design using Photoshop, In publishing, we Several softwa and multimed developing a projects that re	computers and I design, and I design, diagrees application in presentation website, studies and I design in Vication in Vicati	ond design in the Dreamweave agital photogons are used to the print all lents will have in the real isual Commits.	software such er. Students le graphy, and gro o design, edit, nd electronic to ve the opport world. Stude	des instruction in bath as Adobe Illustrate arm entry-level skills raphic animation util and publish docume form. From designing unity to apply their onts can earn the Adothe Adobe Certified	or, Acrobat, for desktop lizing Flash. ents, images, g a poster to creativity to be Certified
Prerequisites	None					

Health Assistant		9173		4 Credits	NonWeighted	Year		
Course Description	The Health Assistant students have the opportunity to participate in a wide-range of real-world clinical and job shadowing experiences at many different local healthcare providers such as hospitals and other medically related facilities. Clinical experiences may include: child care, long-term care, emergency nursing, recovery room nursing radiology, medical records, operating room observation, pharmacy physical/occupational therapy, and/or lab technician. Students will have the opportunity to earn and complete the American Heart Association "CPR for Health Care Providers" certification and the following certifications in relation to the Health Care Industry: Pennsylvania State Nurse Aid Registry (CNA): For first and second year students, instruction begins with anatomy, physiology, and medical terminology Special attention is given to medical office examinations, treatment, and patient care Personal Care Home Direct Care Staff: For first and second year students, this component offers a competency test from the PA Department of Public Welfare and i 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 12th grade course, students will assist the pharmacist in a variety of tasks. Module and lab work includes: controlled substances, laws and regulations, drug classifications frequently prescribed medications, prescription information, preparing/dispensing prescriptions, calculations, sterile products, unit dose, and repackaging. Phlebotomy Technician Certification (CPT): This is a one semester certification course directed towards 12th 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	2						

Informational Technology		9155		4 Credits	NonWeighted	Year
Essentials		9355		3 Credits		
Course Description Information Technology Essentials prepares studen				ares students	who are interested in	networking
_	and compute	r diagnostics. 1	It begins with	n Cisco IT Esse	ntials, PC hardware a	nd software,
	and network operating systems. Students initially prepare for CompTIA A+ and Comp					
	certifications	and then,	through the	Cisco CCNA Discov	ery course,	
	students learn networking concepts based on typical networks that one might encounter					
	in a home or small office, or in larger, more complex enterprise models. Finally, students					
	can prepare for the Cisco CCENT and Cisco CCNA certifications.					
Prerequisites	• None	9				

Public Safety Technolo	Public Safety Technology			4 Credits	NonWeighted	Year	
•		9385		3 Credits			
Course Description							
Prerequisites	• None	e					

Sports Medicine and		9375		4 Credits	NonWeighted	Year				
Rehabilitation Therapy		9376		3 Credits						
Technology (SMARTT	<u>'</u>)									
Course Description	Tr J									
Prerequisites	• None	2								

Veterinary Assistant Technology		9193		4 Credits	NonWeighted	Year		
, ci		9402		3 Credits				
Course Description	In the Veterinary Assistant Technology program students will learn to keep medical records, schedule, offer client education, practice laboratory procedures, assist with nursing duties, prepare for surgeries, and assist during a routine exam. Students will also gain a solid educational base on which to build a post-secondary degree. This program may lead to additional career pathways such as Animal Trainer, Animal Breeders, 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 Technician, and Veterinary Assistant certifications.							
Prerequisites	• None	e						

Chartiers Valley School District

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