

Fort Cherry School District

Home of the Rangers

Fort Cherry High School

110 Fort Cherry Road, McDonald, Pennsylvania 15057

Main Office: 724.796.1551 / Fax: 724.356.2769

Fort Cherry High School Course Handbook

Grades 9-12

2022-2023

Mr. Thomas J. Samosky, Superintendent of Schools

Dr. Trisha A. V. Craig, High School Principal

Ms. Regan McGlennon, School Counselor (Grades 10-12)

Mrs. Erin L. Wilson, School Counselor (Grades 7-9)

District Mission:

The mission of the Fort Cherry School District is to create a learning community committed to providing our students with the skills, knowledge, and opportunities to be productive and successful citizens in a global society.

District Vision:

The vision of the Fort Cherry School District is to establish a collaborative community supporting, engaging, and challenging our students to develop a life-long quest for knowledge and success.

Letter from the Principal

Dear Parent/Guardian and Student:

The administration, faculty, and staff welcome you to Fort Cherry Jr./Sr. High School, Home of the Rangers. Fort Cherry HS is a learning community consisting of grades 7-12 primarily located in Washington County, Pennsylvania. Established in 1959 upon a merger of community high schools located in Hickory, McDonald, Midway, Fort Cherry maintains a proud tradition of excellence in academics and athletics.

Fort Cherry HS is a full-service, inclusive learning community, addressing the needs of young learners by providing them a variety of programs that can be adapted to accommodate an array of interests at their respective grade levels. In addition to innovative curricula, Fort Cherry offers many extracurricular activities to complement students' educational experiences. This course registration handbook denotes course offerings and policies pertinent to students in grades 9-12. Parents and students are encouraged to thoroughly review this handbook, as to ensure timely fulfillment of graduation requirements and optimization of post-secondary opportunities.

For additional information, please contact us at 724.796.1551 or visit our website at www.fortcherry.org/fortcherryhs.

Dr. Trisha Craig
Principal

Message from the School Counseling Department

Dear Parent/Guardian and Students:

Our role, as your school counselors, is to provide information and counselor services in matters relating to students' personal, social, educational, and vocational needs. Our major task is to see that our students graduate after having experienced a rich and rewarding high school career.

The services of the School Counseling Department are provided through individual interviews, small and large group meetings, newsletters, and other informational processes. The meetings together may concern test results, scheduling, grades, personal concerns, post-high school plans, or any number of other issues that can arise from life in high school.

This guide has been prepared after much thought and investigation. It has been designed to meet the needs of all students. Read the guide carefully. Notice that the school offers a wide variety of subject matter, all of which are intended to educate the student thoroughly.

We encourage the parents of all students to meet with us concerning student achievement, educational planning, or any concern, which might arise. If you would like to set up a meeting, please call 724.796.1551 and ask for the school counseling department. We look forward to working with all of you this school year!

Ms. McGlenon & Mrs. Wilson
School Counselors

POLICIES & PROCEDURES

COURSE REGISTRATION

Fort Cherry HS Registration Guidelines

- All students must carry a minimum of six (6) full credit subjects in addition to Wellness (previously called Physical Education). Health for grades 9 and 11 are integrated into Wellness 9 and Wellness 11. Students in grade 10 are required to take Facts & Finance.
- Students must repeat required subjects, which they have failed.
- Any deviation from the required program of studies must be pre-approved.

Schedule Changes: ADD/DROP REQUESTS

- A parent approval is needed for all schedule changes either written or email will be accepted.
- Student and/or parent initiated requests for course changes will be honored any day prior to the first day of school. Additionally, we honor a two week add/drop window at the beginning of the school year.
- A student may drop an elective course within three (3) school days of receiving his/her first report card only if the student does not already possess a full-year study hall. A dropped class may only be substituted with a study hall; therefore, an additional course may not be added in its place. Any course dropped in this manner will be deleted from his/her record without penalty of failure and issued a “W” for withdrawal on the student’s report card and transcript. Written approval of the student’s parent/guardian is required. When dropping a course, students and parents should keep in mind that all students must carry a minimum of six (6) full credit courses at all times.
- Any changes made more than three (3) school days after the first report card is distributed will result in a “W” (Withdrawal) on the student’s permanent transcript. This letter mark does not affect a student’s cumulative grade point average and should not impact his/her class rank.

Career and Technology Students

All Career and Technical Center (CTC) students will be able to waive one science, one math and one social studies class in lieu of CTC credits over the course of grades 10, 11, and 12. They must carry three full credit courses, one of which will be English, plus Wellness, each school year. CTC students who fail full credit courses in a school year will not be permitted to continue the following year in a CTC program unless the credits are obtained in summer school. If a student fails his/her program at WACTC/PWCTC for the year, they will lose elective credits and must also make up any course that was waived at Fort Cherry in lieu of attendance at WACTC/PWCTC. CTC students must be sure that their senior schedule will enable them to meet all Fort Cherry High School graduation requirements. If a CTC student is not projected to meet all graduation requirements by the end of the senior year, the student will not be permitted to continue in the CTC program during the senior year. In addition to the specific CTC instruction, CTC student schedules must reflect the following required courses.

Western Area CTC students' program starts in grade 10:

<u>Grade 10</u>	<u>Grade 11</u>	<u>Grade 12</u>
English	English	English
Math	Math	Science
Social Studies	Science	Social Studies
Wellness 10	Wellness 11	Wellness 12
Facts & Finance	Study Hall	Study Hall

Parkway Center CTC students' program starts in grade 9:

<u>Grade 9</u>	<u>Grade 10</u>	<u>Grade 11</u>	<u>Grade 12</u>
English	English	English	English
Math	Math	Math	Science
Science	Social Studies	Science	Social Studies
Social Studies*	Wellness 10 - IS	Wellness 11 - IS	Wellness 12 - IS
*online @ PWCTC			
Wellness 9 - IS			

Class Rank

To compute class rank, final percentages are used. More rigorous courses are weighted through the addition of ten (10) extra percentage points. Percentage points are divided by the number of credits earned by the student. A cumulative grade point average is determined from utilizing **ALL** final course grades, including Wellness, Facts & Finance, and Health, attained in grades 9, 10, 11, and 12.

Class rank is computed at the end of the academic year in grades 9, 10, 11 and 12. To determine honor graduate designations for graduating seniors, class rank is also calculated at the conclusion of the third nine-weeks; however, **final** class rank is not validated until after the school year has ended and final course grades have been issued.

<u>GRADE & PERCENT SCALE</u>	<u>WEIGHTED</u>
A: 90% - 100%	100% - 110%
B: 80% - 89%	90% - 99%
C: 70% - 79%	80% - 89%
D: 60% - 69%	70% - 79%
F: 50% - 59%	60% - 69%

Dual Enrollment Program

Advanced Placement (AP) Courses

Students may earn college credit and/or advanced standing at many colleges by achieving appropriate scores on Advanced Placement (AP) exams offered by the College Board each May. Students who elect to take an AP course must take the AP exam. Students prepare for these exams by taking one or more of the following AP courses: Biology, Calculus, Chemistry, English Literature & Composition, Physics 1 & 2, Psychology, Statistics, and United States History. Parents/Guardians/Students are required to pay the fee for the AP Exam. Students, who earn a passing score of a 3, will be reimbursed for the cost of the AP Exam upon submitting a copy of the score report and a copy of the canceled check or receipt proving payment. Students who take the AP exam will have a weighted grade assigned to them. If a student does not take the AP exam, that student will not receive a weighted grade. In addition, the following AP courses have required laboratories that must be taken during the same school year – Biology, Chemistry, Physics 1 & 2. Laboratory grades will be based on a pass/fail system.

College in High School (CHS) Courses

College in High School (CHS) courses are offered through the University of Pittsburgh and are taught by an approved instructor at Fort Cherry High School. Current CHS courses being offered are Argument, Biology, Statistics, and Western Civilization 2. Students who elect to take a CHS course must take the course for college credit through the University of Pittsburgh. Students are responsible for registering for and completing the Pitt Placement Test. Students who pass the Placement test may request reimbursement for the cost. Further information will be provided to students who register for the course. Parents/ Guardians/Students are required to pay the fee for the college course credit. Students who earn a “C” or better for a final grade may request reimbursement for the cost of the college course, upon submitting the appropriate documentation to the Business Office. Students who take CHS courses will have a weighted grade assigned to them.

Online High School Course Credit/College Course Credit

For advancement purposes, a student who successfully completes an accredited 120-hour course through CCAC, or any approved educational entity throughout the year will be permitted to have that credit count toward graduation. For recovery purposes, a student who successfully completes an accredited 60-hour course through CCAC, or any approved educational entity throughout the year will be permitted to have that credit count toward graduation. The course and grade will appear on the student’s permanent transcripts; however, the grade will not be included in the computation of Grade Point Average. Prior to enrollment in the course, the student’s school counselor must approve any course intended for use towards graduation requirements.

Grading Procedures

Attendance

Attendance on a regular basis is essential for success in school and classes. If any class work is missed due to emergency or illness, it is the student’s responsibility to make arrangements with the teacher to do make-up work within the time allowed. Failure to complete work within the time allowed may result in a failing grade for the work missed or an Incomplete for the course.

Teacher Policies

Teachers will keep on file in the main office a copy of their grading policy. If there are items in the grading policy that the teacher and administration cannot agree upon after a conference, the administration will have the final say in the determination of the policy. It is recommended that each teacher go over their grading policy with their students the first day of school.

Passing full-year (1 credit) courses

Final grades for full-year courses are an average of the following: four (4) nine-week marking period grades, weighted at 25% each with a final exam/project factored into the fourth marking period. Students must earn a minimum 60% average to receive credit for full-year courses.

Passing semester (.5 credit) courses

Final grades for semester courses are an average of the following: two (2) nine-week grades, weighted at 50% each with a final exam/project factored into the second marking period. Students must earn a minimum 60% average to receive credit for semester courses.

Incompletes

Incompletes (I's) can be issued to students upon principal's approval for extenuating circumstances, which inhibited completion of assignments. Extenuating circumstances include, but are not limited to prolonged illnesses, medical emergencies, death of immediate family members, and court-ordered obligations. An incomplete must be cleared within two (2) calendar weeks of the date of report card release—unless the principal grants a time extension—or unfinished assignments will convert to zeros and an appropriate grade will be assigned for the respective marking period. It is the student's responsibility to make up all outstanding assignments upon issuance of an incomplete, and the teacher's responsibility to issue a grade upon completion of that work.

Final Grades

Final grades will be an average (mean) of the four nine-week percentages. The following alpha/numeric grading scale will be used for all courses. Percentage averages are reported as a part of a student's permanent school (grades 7-12) transcript with cumulative averages noted for grades 10-12.

A =	90% - 100%	Excellent
B =	80% - 89%	Above Average
C =	70% - 79%	Average
D =	60% - 69%	Below Average
F =	50% - 59%	Failure (No Credit)

- **IMPORTANT NOTE: During the first three (3) grading periods, a student will not be able to earn lower than a grade of 50%. During the fourth (4th) and final grading period, the student will receive the grade earned, which could be lower than 50%. A passing grade for a course is 60% or higher.**
- Percentage averages will remain as percentages for application toward class rank, honor roll, etc.

Course Failures

Students repeating a course that they failed will earn credit for the repeating class upon successful completion. Both the failing and passing grade percentages will show on the student's transcript and will be averaged for QPA and class rank. Students who repeat a course that was passed will only receive one credit for the course. Both courses will show on the transcript, but only the first class will count towards GPA and class rank. If a student fails a course, he/she has the option to take that course in an approved 60- hour summer school program. Credit towards graduation will be assigned, but the grade received will not count in determining the student's GPA.

Report Cards

Report cards are no longer issued in paper format. At the end of each quarter, a district-wide phone call and email will alert all families that report cards are ready for viewing through the Portal.

Graduation Requirements

Credits

Listed below are the minimum credit requirements, which students must meet in order to graduate from Fort Cherry Jr./Sr. High School. Students who repeat one or more grade levels 9-12 must meet the requirements that were applicable when they first entered grade 9. Please note that courses qualifying to meet the Arts and Humanities requirement include courses in art, English electives, Social studies electives, Entertainment Technology and world languages. One vocational credit earned at either Western Area or Parkway Career and Technology Center may be substituted to meet the Arts and Humanities requirement.

High School (Grades 9-12) Graduation Requirements

<u>Subject</u>	<u>Units of Credits</u>
English	4.0 credits
Mathematics	3.0 credits
Science	3.0 credits
Social Studies	3.0 credits
Arts/Humanities <i>(electives in art, English, social studies, entertainment technology, & world language)</i>	2.0 credits
Electives	5.0 credits
Facts & Finance	.5 credit
Wellness (Physical Ed/Health)	2.0 credits
Career Pathways Plan	1.0 credit
Total:	23.5 credits

**Graduation Requirements
for WACTC Students**

**Graduation Requirements
for PWCTC Students:**

<u>Subject</u>	<u>Units of Credits</u>		<u>Subject</u>	<u>Units of Credits</u>
English	4.0 credits		English	4.0 credits
Mathematics	3.0 credits		Mathematics	3.0 credits
Science	3.0 credits		Science	3.0 credits
Social Studies	3.0 credits		Social Studies	3.0 credits
Electives	2.0 credits		Electives	waived
CTC Program	12.0 credits		CTC Program	16.0 credits
Facts & Finance	.5 credit		Facts & Finance	waived
Wellness (Physical Education/ Health)	2.0 credits		Wellness (Physical Education/ Health)	2.0 credits
Career Pathways Plan	1.0 credit		Career Pathways Plan	1.0 credit
Total:	30.50 credits		Total:	32 credits

Courses

Students must take one (1) of each of the following courses in each of the grade levels 9-11: English, mathematics, science, and social studies. Seniors must be enrolled in an English course and have additional flexibility for other core classes. Graduating seniors must complete Algebra I and Geometry as the minimum level of mathematics for graduation. Science graduation requirements include a minimum of Biology, Chemistry, Physical Science, and one (1) science elective.

Graduation Honors

The School Board desires to recognize and honor those graduating secondary students who have demonstrated outstanding academic achievement during their high school careers by conferring upon certain students the honor of designation as Valedictorian and Salutatorian.

Valedictorian: The graduating student who has achieved the highest grade point average for secondary coursework completed during grades nine through twelve will be honored as

Valedictorian of his/her graduating class. For a graduating student to be considered for the honor of Valedictorian s/he must have attended Fort Cherry High School for at least two (2) complete years, one of which being the senior year. The Valedictorian shall be recognized as such in connection with the graduation ceremonies.

Salutatorian: When only one (1) student within a graduation class is conferred with the honor of Valedictorian, the honor of Salutatorian will be conferred to the student or students who has/have attained the second highest grade point average for secondary coursework completed in grades nine through twelve. In the event two (2) or more students are being honored as Valedictorian, there will be no designation of Salutatorian. For a graduating student to be considered for the honor of Salutatorian, s/he must have attended Fort Cherry High School for at least two (2) complete years, one of which being the senior year.

Honor Graduates: Students with a 3.5 and above quality point average in secondary course work (grades nine through twelve) will have the distinction of being honor graduates.

- Students graduating with a 4.0 and above quality point average will be recognized for graduating with highest honors, summa cum laude.
- Students graduating with a 3.75 to 3.99 quality point average will be recognized with high honors, magna cum laude.
- Students graduating with a 3.5 to 3.74 quality point average will be recognized with honors, cum laude.

Keystone Exams

All students are mandated to take the Pennsylvania Keystone Exams in the content areas of Algebra, Literature, and Biology. Students must score proficient or advanced on these exams in order to meet Pennsylvania state guidelines for graduation. Any student not scoring at the minimum proficiency level is required to retest in deficient subjects.

Commencement Marching Requirements

Students must have met all credit requirements in order to march in graduation ceremonies. Students cannot march or graduate if they have not yet taken all required courses toward graduation. A student who has taken and failed no more than two (2) required courses may march if they provide documentation that they are enrolled in an approved summer school program to make up the courses. In this case, they may march but will receive a blank folder (no diploma). These students will receive the Fort Cherry High School diploma upon successful completion of summer school course(s). In addition, students must meet all monetary obligations in order to march.

Honor Roll

The honor roll will be determined four (4) times each school year based on grades received for the most recent nine-week grading period. The honor roll for the Fort Cherry Junior-Senior High School is determined as follows:

<u>Honors Classification</u>	<u>Quality Point Average</u>
Highest Honors	95% or above
High Honors	90% - 94.999%
Honors	80% – 89.999%

Students are not eligible for honor roll consideration if they have received a “D”, “F”, or an “I” in any course. Students will have two (2) weeks from the last day of the nine-weeks to make up incomplete work and change the “I” to a letter grade for honor roll consideration. Teachers must notify the school office in writing of the grade change within the two-week period. The exception will be the last nine weeks during which all work must be made up before school dismisses for the year.

National Honor Society

To be eligible for membership in the National Honor Society (NHS), a student must be a sophomore, junior, or senior. Academically eligible students will be asked to complete an application that will be reviewed by a faculty panel for membership. Selection for membership is based on outstanding scholarship, character, leadership and service, as outlined below. Students who are selected for membership will be required to document their activities and volunteer hours yearly as well as partake in a chapter volunteer activity twice yearly (one activity per semester) in order to maintain membership.

Scholarship

A cumulative grade point average of 3.00 is required.

Leadership

- Grade 10 application:
 - Three (3) extracurricular and/or co-curricular activities in grades 9-10
 - Two (2) leadership positions or experiences held in school or community.
- Grade 11-12 application:
 - Four (4) extracurricular and/or co-curricular activities in grades 9-12
 - Three (3) leadership positions or experiences held in school or community.

Service

- This involves voluntary contributions made by a student to the school or community, done without compensation. Students must document a minimum of two (2) community service activities completed either in the school and/or community.
 - If a student has thirty or more hours of service in one specific activity, in alignment with the previous requirements, this can be substituted for the two documented activities.
 - *Due to Covid-19, there were no minimum hours for community service for the 2021-22 school year. If this situation is resolved, the service requirements will be re-evaluated. For the 2022-2023 school year, this requirement is still to be determined... more information will be forthcoming.*

Character

The Faculty Council will determine character with supplemental information provided by the faculty of Fort Cherry High School. An individual of good character consistently exemplifies desirable qualities of behavior (friendliness, kindness), cooperates by complying with school regulations concerning property, programs, halls, etc., demonstrates the highest standards of honesty and reliability, regularly shows courtesy, concern, and respect for others, and exemplifies positive attitudes. Discipline records will be reviewed.

Maintenance

NHS Members should understand fully that they are subject to dismissal with due process if they do not maintain the standards of scholarship, leadership, service, and character that were used as a basis for their selection. All members will be re-evaluated each semester and any student who fails to maintain standards will be issued a written warning from the National Honor Society Advisor. Upon receipt of a warning, the student will be given one semester to once again achieve the required standards for scholarship, leadership, service and character. The criterion for maintenance is as follows:

Scholarship: Students must maintain a 3.00 cumulative grade point average.

Leadership: Students must hold at least one leadership position each year. In addition, students must participate in at least one school related extracurricular activity.

Community Service: Students must perform 10 hours of community service and partake in two chapter volunteer activities each year. Students may continue the same community service activities or choose new activities. Documentation must be provided.

Character: The Faculty Council will determine Character with supplemental information provided by the faculty of Fort Cherry High School. Disciplinary records will be utilized.

Post-Secondary Planning

Information on colleges, universities, trade, technical, and business schools is available in the school Office at the high school. Students are encouraged to investigate post-secondary educational opportunities, which meet their career goals. Students should contact their counselor for information regarding colleges and course requirements.

Career Pathways Program Outline

Each year, students will participate in career exploration activities, both individually and in small groups. Upon successful completion and submission of required documentation, students will be graded on a Pass/Fail basis and issued 0.25 credits each year towards graduation, grades 9-12.

GRADE LEVEL	CAREER PATHWAYS PROGRAM OUTLINE REQUIREMENTS
7	Transition to Junior High School <ul style="list-style-type: none"> ● Transition activities for elementary to junior high ● Focus on learning styles and successful study habits ● Goal setting ● Career exploration activities aligned to personal interests
8	Continued Career Exploration <ul style="list-style-type: none"> ● Career clusters ● Goal setting ● Introduction to career and technical program offerings ● High school course offerings related to areas of interest
9	Transition to Senior High School <ul style="list-style-type: none"> ● Exploring personal strengths ● Revisit learning style and study habits, goal setting ● Additional career and technical program opportunities ● Students create a 'game plan' of post secondary goals.
10	Interest Research <ul style="list-style-type: none"> ● Create career interest profile; goal setting ● Personality Assessment/ Intelligences ● Thirty (30) Volunteer Hours (mandatory) ● Update student 'resume'
11	Post-Secondary Research <ul style="list-style-type: none"> ● College/ postsecondary institutions search ● Skills assessment; goal setting; student resume ● College/ Career Informational Meetings ● Attend college visits/ college & career fairs
12	Career Pathways Plan Completion <ul style="list-style-type: none"> ● Individual Student Meetings ● Finalize career portfolio documents ● <i>Career Pathways Plan</i> Presentation @ Exit Interview ● Complete graduation survey

College Admission Requirements

Requirements for admission to college usually extend beyond the minimum requirements for high school graduation. Students should consult catalogs of colleges in which they are interested to be sure they are selecting the right courses. Colleges typically expect students to take the SAT and/or ACT entrance exams during their junior year and the beginning of their senior year in high school. Preparatory courses for college should include English, social studies, and science every year in high school. Many colleges expect students to have completed two years of the same foreign language.

College/Career Fairs

Seniors have the opportunity to attend a college in the fall with the school. Juniors have the opportunity to attend a college fair in February at the David Lawrence Convention Center in Pittsburgh. Other college fairs held in the area will be promoted to both the Junior and Senior classes and students may attend of their own accord. At these college fairs, students speak to school representatives and collect information about post-secondary schools and programs of interest.

Parent Informational Meetings

The school Department sponsors opportunities held at Fort Cherry High School for parents and students to receive important information for educational planning. Event dates and times will be mailed to students' homes. The following events are scheduled yearly:

Senior College Night: held in September for seniors and parents to discuss the college application process.

Financial Aid Night: held in November to assist parents/students with the financial aid process. Other financial aid workshops are held throughout the year in union with Avella and Burgettstown High Schools.

Promotion and Retention

Students will qualify for promotion to the next grade level as indicated below:

<u>For Promotion To:</u>	<u>Required Criteria</u>
Grade 10	5 credits
Grade 11	12 credits
Grade 12	19 credits

Students in eleventh grade who have earned a total of eighteen (18) credits towards graduation, and who are scheduled for the additional required courses for graduation will be promoted to the twelfth grade. Students who fail to achieve necessary credits required for promotion are reassigned to a homeroom at the appropriate grade level. Students who are retained are scheduled to repeat required courses which they have not yet successfully completed, but they progress to the next level in subject areas where they have succeeded. Should students accumulate enough credits to rejoin their original class, the appropriate reassignment will be approved for the subsequent school year.

Tutoring

Tutoring

Before-school tutoring services are available with a student's respective teacher from 7:15-7:45 am during discretionary time by appointment only.

Pupil Academic Support System (PASS) Program

The purpose of PASS is to maintain the academic eligibility of students involved in the co-curricular program at Fort Cherry High School. All students who participate in a co-curricular activity must maintain at least a 2.0 grade point average in the report period preceding the activity. All students who have a grade point average below a 2.0 will be placed in the PASS Program. Student participants' grades will be monitored at the time of the deficiency and at the end of each nine-week period. Those students failing to meet this standard will be referred. If the student fails to achieve a 2.0 by the time of the deficiency reports; he/she will become ineligible for the co-curricular activity.

COURSE LISTINGS BY DEPARTMENT

Art Education

Code	Course Title	Credit	Grades			
			9	10	11	12
	Art 1	1.0	X	X	X	X
	Art 2	1.0		X	X	X
	Art 3	1.0			X	X

Agricultural Science

Code	Course Title	Credit	Grades			
			9	10	11	12
401	Introduction to Agricultural Science	1.0	X	X	X	X
403	Horticulture	1.0		X	X	X
404	Animal Science	1.0		X	X	X
405	Veterinary Science	1.0			X	X
406	Floral Design	1.0			X	X
407	Agricultural Leadership & Comm	1.0			X	X
408	Supervised Agricultural Experience (SAE)	1.0		X	X	
409	SAE 9	1.0	X			

Entrepreneurship and Innovation

Code	Course Title	Credit	Grades			
			9	10	11	12
421	Entrepreneurship 1	1.0	X	X	X	X
422	Entrepreneurship 2	1.0		X	X	X
423	Entrepreneurship 3	1.0			X	X
424	Entrepreneurship 4	1.0				X

English

Code	Course Title	Credit	Grades			
			9	10	11	12
112	English 9	1.0	X			
113	English Honors 9	1.0	X			
122	English 10	1.0		X		
123	English Honors 10	1.0		X		
132	Communications	1.0			X	X
133	Literature and Life Experience	1.0			X	X
134	The Drama Experience	1.0			X	X
135	Sports Literature & Film	1.0		X	X	
137	AP English Literature & Composition	1.0			X	X
138	CHS Argument	1.0			X	X

Entertainment Technology

Code	Course Title	Credit	Grades			
			9	10	11	12
151	FC Multimedia 1	1.0	X	X	X	X
152	FC Multimedia 2	1.0		X	X	X
153	FC Multimedia 3	1.0			X	X
154	FC Multimedia 4	1.0				X
165	Publications 1	1.0	X	X	X	X

166	Publications 2	1.0		X	X	X
167	Publications 3	1.0			X	X
168	Publications 4	1.0				X
171	Creative Writing Workshop	1.0	X	X	X	X

Wellness (Physical Education and Health)

Code	Course Title	Credit	Grades			
			9	10	11	12
610	Wellness 9	0.5	X			
620	Wellness 10	0.5		X		
630	Wellness 11	0.5			X	
640	Wellness 12	0.5				X
650	Adapted Wellness	0.5	X	X	X	X

Mathematics

Code	Course Title	Credit	Grades			
			9	10	11	12
321	iAlgebra 1A	1.0	X	X		
322	iAlgebra 1B	1.0		X	X	X
323	Algebra 1	1.0	X	X	X	X
325	iGeometry	1.0		X	X	X
326	Geometry	1.0	X	X	X	X
331	iAlgebra 2	1.0		X	X	X
332	Algebra 2	1.0	X	X	X	X
351	Trigonometry/ PreCalculus	1.0		X	X	X
353	Calculus (CHS/AP)	1.0			X	X
356	Statistics (CHS/AP)	1.0			X	X
358	Financial Math	1.0			X	X
627	Facts & Finance	0.5		X		

Music

Code	Course Title	Credit	Grades			
			9	10	11	12
441	Band	1.0	X	X	X	X
445	Chorus	1.0	X	X	X	X
NC	Encore Ensemble	0.0		X	X	X

Science

Code	Course Title	Credit	Grades			
			9	10	11	12
015	Biology 1	1.0	X			
016	Honors Biology 1	1.0	X			
026	Anatomy and Physiology	1.0		X	X	X
028	AP Biology	1.0			X	X
029	AP Biology Laboratory	1.0			X	X
033	Chemistry 1	1.0		X	X	X
035	Chemistry 2	1.0			X	X
038	AP Chemistry	1.0			X	X
039	AP Chemistry Laboratory	1.0			X	X
051	Conceptual Physics	1.0			X	X
052	Physics	1.0			X	X
055	AP Physics 1	1.0			X	X
056	AP Physics 1 Laboratory	1.0			X	X

Social Studies

Code	Course Title	Credit	Grades			
			9	10	11	12
211	U.S. History 1: Pre 1865	1.0	X			
221	U.S. History 2: 1865-Present	1.0		X		
222	AP United States History	1.0		X	X	X
241	Political Science & Economics	1.0		X	X	X
242	Sociology	1.0		X	X	X
243	World Conflict	1.0		X	X	X
244	Psychology	1.0		X	X	X
245	AP Psychology	1.0			X	X
250	CHS Western Civilization 2	1.0			X	X

Western Area Career and Technology Center (WACTC)

Code	Course Title	Credit	Grades			
			9	10	11	12
701	Automation and Robotics Engineering	4.0		X	X	X
703	Auto Mechanics	4.0		X	X	X
705	Carpentry	4.0		X	X	X
707	Collision Repair Technology	4.0		X	X	X
709	Computer Networking	4.0		X	X	X
711	Cosmetology	4.0		X	X	X
713	Culinary Arts	4.0		X	X	X
715	Electrical Occupations	4.0		X	X	X
717	Emergency & Protective Services	4.0		X	X	X
719	Health Assistant	4.0		X	X	X
721	Heating and Air Conditioning	4.0		X	X	X
723	Machine Shop	4.0		X	X	X
725	Masonry	4.0		X	X	X
727	Welding	4.0		X	X	X

Parkway West Career and Technical Center

Code	Course Title	Credit	Grades			
			9	10	11	12
751	Veterinary Technology	4.0	X	X	X	X
752	Diesel Technology	4.0	X	X	X	X
753	Graphic Arts and Production Tech	4.0	X	X	X	X
754	Nail Technician	4.0				X
755	Sports Medicine and Rehab Therapy	4.0	X	X	X	X
	Cyber Security and Networking Tech	4.0	X	X	X	X
	Power Motor Sports					

World Languages

Code	Course Title	Credit	Grades			
			9	10	11	12
501	Spanish 1	1.0	X	X	X	X
502	Spanish 2	1.0	X	X	X	X
503	Spanish 3	1.0	X	X	X	X
504	Spanish 4	1.0		X	X	X
506	German 1	1.0	X	X	X	X
507	German 2	1.0	X	X	X	X
508	German 3	1.0	X	X	X	X

COURSE DESCRIPTIONS

Definition of Prerequisite

There are two kinds of prerequisites to be considered as students choose their courses for the coming year. One type of prerequisite is the course(s) that must be successfully completed prior to enrolling in a given course. Another type is a performance prerequisite, which is based upon grades earned in previous courses or in previous nine-week marking periods. Suggested prerequisites are indicated following the course title, where required. Because course selection procedures are typically carried out in March of each school year, performance prerequisites are to be based upon grades earned for the first two marking periods of the school year. If the student's final grade is not consistent with the grades for the first two marking periods, a change of course selection is to be initiated prior to the start of the next school year.

Agricultural Science

Introduction to Agricultural Science: Grades 9-12

This course will include an introductory study of all the areas of agriscience. It will be an exploratory course designed to give interested students a broad outlook at the agrisciences including animal science, plant science, natural resources, food and fiber, ag technology, agribusiness, agriscience careers and leadership development. FFA membership is encouraged.

Agricultural Marketing: Grades 10-12

Prerequisite: Intro to Ag Science

Agricultural Marketing will cover the business side of the ag industry. Students will learn the basic accounting methods needed in the agricultural world. They will learn to keep a checking account, savings account and basic investment portfolio. Students will be able to complete a basic tax return. Students will also learn the different marketing techniques used in the many agricultural commodities. **FFA membership is encouraged.**

Horticulture: Grades 10-12

Prerequisite: Intro to Ag Science

Horticulture Science will explore the scientific principles involved in the production of horticultural plants including plant id, environmental factors, plant health, plant growing, and plant services. Students will be involved in growing bedding plants and vegetable plants during the second semester of the course. FFA membership is encouraged.

****Note:** This course may be used as a science requirement towards graduation. However, when taken concurrently with a required science course, it will count as a general elective, not a Science credit.

Animal Science: Grades 10-12

Prerequisite: Intro to Ag Science

(1/2 year Small Animal Science): Small animal science will explore the scientific principles and daily care involved in small animal production. These studies will include small animal care, safety, small animals as pets, animal rights and welfare and careers in small animal care. Students will study information for animals such as rabbits, hamsters, cats, dogs and birds.

(1/2 year Large Animal Science): Large animal science will explore the principles involved in large animal research and development. These studies will include the beef industry, sheep industry, goat industry, horse industry, dairy industry and swine industry. Students will study information on reproduction, care and feeding, and basic veterinary science for each of the industries listed.

This class would be especially beneficial to students who are exploring careers in veterinary care or who wish to learn more about the small and large animal industry. FFA membership is encouraged.

****Note:** This course may be used as a science requirement towards graduation. However, when taken concurrently with a required science course, it will count as a general elective, not a Science credit.

Veterinary Science Grades 11-12**Prerequisite: Animal Science**

Students will learn about the different aspects of being a veterinarian. This will include studies of all of the various animal systems including circulatory, respiratory, renal, digestive, reproductive and nervous. Studies will also include nutrition and how different species compare. Diseases, classifications, diagnosis, and disease prevention will be studied. The daily lives of veterinarians and vet technicians will be explored, including basic principles of surgery. FFA membership is encouraged.

****Note:** This course may be used as a science requirement towards graduation. However, when taken concurrently with a required science course, it will count as a general elective, not a Science credit.

Floral Design: Grades 11-12**Recommendation: Intro to Ag Science**

Concentration will be given to creating floral centerpieces, wreaths, corsages, and bouquets. The basics of floral composition, container choices, and construction techniques will be covered. Students will learn color and flower selection for banquet events and personal enjoyment and will work with silk, dried, and fresh plant material. FFA membership is encouraged.

Agricultural Leadership & Communications: Grades 11-12**Prerequisite: Intro to Ag Science**

This course will incorporate the activities of the FFA program. Students will learn basic record keeping by completing an FFA record book using MS EXCEL. Students will learn communication skills and Robert's Rules of Order by using the FFA speech format and parliamentary procedure event. Each student will write a conservation speech, prepared speech and extemporaneous speech then present in class. Students will cover materials for various career development events including dairy foods, meats, forestry, and floriculture. **FFA membership is MANDATORY!**

****Note:** This course may be used as a science requirement towards graduation. However, when taken concurrently with a required science course, it will count as a general elective, not a Science credit.

Supervised Agricultural Experience 9: Grade 9**Co-requisite: FFA Membership**

Supervised Agricultural Experience 9 (SAE 9) is a record book keeping class for those students who plan to enroll in the total agriculture science program and complete an SAE project. Each SAE project must complete a minimum of 100 total hours in their projects for credit. **This is an independent study course.** Students are required to meet with the instructor at least once per week during the regular school year which may be scheduled with the instructor individually. Students will be assigned to Mrs. Hoover's homeroom and AIRE time to facilitate the work. Grading for this course is pass/fail. Students who satisfactorily meet the requirements of the SAE project will be granted a "pass" grade for the year.

Supervised Agricultural Experience: Grades 10-12**Co-requisite: FFA Membership**

Supervised Agricultural Experience (SAE) is a record book keeping class for those students who plan to enroll in an agriculture science course and complete an SAE project. Each SAE project must complete a minimum of 150 total hours in their projects for credit. **This is an independent study course.** Students are required to meet with the instructor at least once per week during the regular school year which may be scheduled with the instructor individually. Students will be assigned to Mrs. Hoover's homeroom and AIRE time to facilitate the work. Grading for this course is pass/fail. Students who satisfactorily meet the requirements of the SAE project will be granted a "pass" grade for the year.

Art Education

Art 1: Grades 9-12

Art 1 is the first class for students interested in pursuing Art at the High School level. This course is focused on developing lifelong artists who explore their imaginations in order to create artwork that is personally expressive and meaningful. Students will dive into various methods of art making including drawing, printmaking, painting, sculpture, and ceramics. We will strive to gain a comprehensive

understanding of the skills and techniques necessary to succeed in realizing artistic visions and participating in the art world. We will not only cover art production, but a broader view of topics within the art world such as art history, art criticism, and questions of aesthetics. In this course students are the artists and the art room their studio. Students are expected to be involved in the entire artistic process including designing, creating, and reflecting on their work.

Art 2: Grades 10-12

Prerequisite: General Art

Art 2 is an extension of the Art 1 course offered for students at the High School level. Students are encouraged to build upon their previous learning to accomplish more advanced creative problem solving. In this class, students will further explore their own personal aesthetic and artistic voice. They will be expected to show personal growth as techniques are reviewed but will have the opportunity to focus on media of their choosing. Emphasis will be put upon the conceptual aspect of student work. We will continue to expand our knowledge of art movements of the past and present. In this course students are the artists and the art room their studio. Students are expected to be involved in the entire artistic process including designing, creating, and reflecting on their work.

Art 3: Grades 11 & 12

Prerequisite: Advanced Art

In Art 3, students will showcase their ability to be independent learners who participate confidently in the Artistic Thinking Process. The skills learned in general and advanced art prepare students to further develop their artistic voice and continue to explore personal aesthetics. They will strive towards creating work with strong conceptual ideas that reflect their passions. Students will additionally be encouraged to make connections with the greater arts community. They will be challenged to create artwork in a series leading to a body of work centered around a sustained investigation.

English

English 9: Grade 9

English 9 continues the sequential study of skills in reading, writing, speaking and listening. Students will study the forms, elements, and devices of the novel, drama, short story, and poetry – including a Shakespearean drama, an epic, and mythology texts. Independent reading and analysis will be a focus of study throughout the course. Library skills, research, reading comprehension, grammar, analysis skills and strategies, and writing skills are also integral parts of the course. Students will engage in the writing process to effectively write paragraph and multi-paragraph essays. They will also learn to effectively synthesize and present their research analysis related to texts of the class. Writing assignments will also include letter writing, journal writing, and creative writing.

Honors English 9: Grade 9

Prerequisite: Teacher recommendation

Honors English 9 reviews the nature and structure of the English language at an accelerated pace. The students complete literary analyses of novels, dramas, short stories, and poetry – including a Shakespearean drama, an epic, and mythology texts. Students develop writing skills through experiences with various types of writing, and they practice techniques of group discussion. Independent reading and analysis will be a focus of study throughout the course. Library skills, research, reading comprehension, grammar, analysis skills and strategies, and writing skills are also integral parts of the course. Students will engage in the writing process to effectively write paragraph and multi-paragraph essays. They will also learn to effectively synthesize and present their research analysis related to texts of the class. Writing assignments will also include letter writing, journal writing, and creative writing. A summer assignment is required for credit. Incomplete summer assignments will significantly impact the first 9-week grade.

English 10: Grade 10

English 10 is primarily a writing and literature course that includes instruction in a number of areas. Writing includes expository, descriptive, comparison, and persuasive pieces. Emphasis is placed on the writing process, paragraph and essay structure, as well as sentence structure, detail, organization, and paraphrasing and quoting techniques. Literature study includes the American short story, novel, poetry, essays and Shakespeare's Julius Caesar. A study of Greek and Latin prefixes, suffixes, and roots will also prepare students for PSAT and SAT tests. Students who take this course will take the Keystone English Literature Exam at the end of the course.

Honors English 10: Grade 10**Prerequisite: Teacher recommendation**

Honors English 10 deals with a review of the nature and structure of the English language at an accelerated pace. Honors English 10 is primarily a writing and literature course that includes instruction in a number of areas. Writing includes expository, descriptive, comparison, and persuasive pieces. Emphasis is placed on the writing process, paragraph, and essay structure, as well as sentence structure, detail, organization, and paraphrasing and quoting techniques. Literature study includes the American short story, novel, poetry, essays and Shakespeare's Julius Caesar. In addition, an intense library research unit is included. A study of Greek and Latin prefixes, suffixes, and roots will also prepare students for PSAT and SAT tests. A summer assignment is required for credit. Incomplete summer assignments will significantly impact the first 9-week grade. Students who take this course will take the Keystone English Literature Exam at the end of the course.

Communications: Grades 11 & 12

This course is designed to provide students with the necessary skills to communicate effectively in both social and professional situations. Rapidly expanding technologies and corporate systems demand strong choices in verbal and nonverbal messages, listening skills, critical thinking, and creative thinking. Students enrolled in this course will be expected to utilize communication skills needed for professional and social success in interpersonal situations, interviews, group interactions, and professional/personal presentations. Students will apply skills acquired in real-world communication activities, as well as situational activities based upon a variety of literature selections. This course may be taken as an elective or required English course for students in grades 11 and 12.

Literature and Life Experience: Grades 11 & 12

This course is designed to give students multiple opportunities to explore literature that is relevant to their lives. In this class, students will participate in discussions, group work, formal and informal essays, discussion boards, analysis of literature and research secondary sources like song lyrics, short stories and more! In addition, the course will end the year by preparing for life after high school. Students will utilize class time to apply for college scholarships, write and update resumes and cover letters, interview preparation, and much more. Prepare to leave this class with a knowledge of relevant teen literature, connect to each character we meet, and a portfolio to prepare for the real world. This course may be taken as an elective or required English course for students in grades 11 and 12.

The Drama Experience: Grades 11 & 12

Are you ready to explore some of the most exhilarating and best-written drama? In this course, students will be encouraged to become enthusiastic, insightful scholars of dramatic literature. Readings will include plays, short stories, fictional novels, and non-fiction pieces. Students will analyze the dramatic and literary conventions of the literature, as well as immerse themselves in the experiences of lively characters, genius plot twists and turns, literary themes, and the historical context of the texts. Students will produce literary analysis and critiques of dramatic literature; create short plays and/or dramatic pieces; and engage in the performance of various dramatic pieces. Students will also work with a Pittsburgh City Theater artist in developing and writing their own one-act original play, to be entered in the Young Playwrights Contest through the Pittsburgh City Theater. This course may be taken as an elective or required English course for students in grades 11 and 12.

Sports Literature & Film: Grades 11 &12

This course is perfect for the sports enthusiast that understands and appreciates the connection between sports and life. This course will focus on exploring universal themes found in sports, such as gender equity, perseverance, determination, and integrity. Students will explore the athletes' experiences and emotions both on and off the field of play as presented in the texts. Selected readings from award-winning and popular sports columnists and authors are meant to be both enjoyable and thought-provoking, covering a range of modern fiction, non-fiction, poetry, biographies, and commentaries. Selected authors include essayists, columnists, media, novelists, playwrights, and film directors. Projects will include a variety of written and oral responses to the literature and films presented in class, including discussion, analysis, critique, and reflection. This course may be taken as an elective or required English course for students in grades 11 and 12.

CHS Argument: Grades 11 & 12**Prerequisite: Teacher Recommendation**

Argument is a weighted course that is designed to introduce students to the fundamentals of research and argument construction. Defense of an argument is presented both verbally and in writing. Topics of this course include an introduction to argument, types of argument, constructing an argument, research methods and evidence, delivery of argument, delivery and refutation of arguments, cross-examination, and evaluation or criticism of arguments. This course must be taken as a College in High School (CHS) course. Students will be required to pay the appropriate registration fee. Upon successful completion of the requirements, the student must register to earn three (3) University of Pittsburgh credits that will be transferable to most universities.

AP English Literature & Composition: Grades 11 &12**Prerequisite: Teacher Recommendation**

This is a college level course. Students who enroll in this course are eligible to take the AP Literature and Composition exam in May. This class will ready students for this exam by requiring extensive work in all of the literary genres. Critical thinking, analytical essay development and extensive reading are the norm. Additional requirements include: independent reading at the college level, literary research papers, critical approach essay assignments, and practice AP exam test taking. Students must know the writing process.

Entertainment Technology

FC Multimedia 1: Grades 9-12

Students are required to demonstrate a basic factual and conceptual understanding of how a television production studio functions when creating programming for the Web, cable and broadcast stations. Individuals will be encouraged to develop their creative, artistic and theatrical abilities, while learning to work in teams in a tightly controlled environment. Each student will be expected to operate cameras, perform basic editing functions, write scripts, assume the roles of producer and director and assist in the production of the morning, closed circuit school news and information program. Optionally, students will be offered the opportunity to act as on-camera talent, including anchoring the news. The instructor may assign additional production duties, as circumstances require. Evaluations of students will be made using traditional tests, competency reviews of specific production skills, writing samples and the degree to which each can function in a "real-life" studio setting. For students to succeed, they must possess the ability to work harmoniously in a cooperative learning environment and accept frequent individual and group critiquing of their work.

FC Multimedia 2: Grades 10-12**Prerequisite: FC Multimedia 1**

This advanced television production course designed to enable the student to apply the knowledge and proficiencies learned in the prescribed prerequisite. The primary focus is to create a video yearbook

highlighting as many school activities as possible with an emphasis on the current graduating class. Students are required to attend and record many in-school and after school activities, including, but not limited to, sporting events, plays, musicals, projects, club and class field trips, dances and any other project assigned by the instructor. Unless there is a bus available, students must provide their own transportation to and from the school and/or off-campus events. For students to succeed, they must possess the ability to work harmoniously in a cooperative learning environment and accept frequent individual and group critiquing of their work.

FC Multimedia 3: Grades 11-12

Prerequisite: FC Multimedia 2

Television News/ Special Programming will give the student an opportunity to demonstrate and advanced knowledge of how news departments and video production companies operate in the real world of Web, cable and broadcast programming. Students in this course will have the primary responsibility of producing the morning FCTV news program. In this capacity, they will shoot school interview/special event actualities and, where possible, community events. Students have a secondary responsibility to shoot instructional, entertainment or other types of programs for the faculty or Administration. Additional production duties in other areas may be assigned by the instructor as needed. For students to succeed, they must possess the ability to work harmoniously in a cooperative learning environment and accept frequent individual and group critiquing of their work.

FC Multimedia 4: Grade 12

Prerequisite: FC Multimedia 3

Students who have taken the prerequisite course will apply advanced media production techniques by creating television applications. The cable applications will include our internal, closed-circuit FCTV Morning News telecasts. Production skills to be used in the day-to-day activities include writing copy, shooting appropriate video, trimming scenes, mixing and dubbing music and narration and the finished product to all available video formats. The themes of the spots can range from serious, formal messages, to entertaining ones involving music video types of formats. Students will be required to complete any other project assigned by the instructor. For students to succeed, they must possess the ability to work harmoniously in a cooperative learning environment and accept frequent individual and group critiquing of their work.

Publications 1: Grades 9-12

Prerequisite: Application Submission

This yearbook creation course is designed to provide students with a variety of experiences: interviewing/research, writing, digital photography, business management (including fundraising and selling advertisements), layout design, and team building. These skills will be used in creating a publication, which will capture school memories for years to come. Students will publish their work and learn how to manage and promote a business through yearbook production. Students must be able to attend events outside of school to conduct interviews and take pictures. Enrollment is limited.

Publications 2: Grades 10-12

Prerequisite: Publications 1

Publications II is an extension of Publications I. Students will develop the theme and graphics to be used in the yearbook and will focus on a variety of experiences: page design, page completion, ad sales, planning, organizing, and implementing all aspects of a fundraiser, coverage duties (pictures and video), camera usage, and effective time management. These skills will be used in creating a publication which will capture school memories for years to come. Students will publish their work and learn how to manage and promote a business through yearbook production. Students must be able to attend events outside of school to conduct interviews, and take pictures / videos. These students may assume leadership responsibilities which may include a role as a Section Editor. This will become dependent on student productivity and performance in Publications I. Enrollment is limited.

Publications 3: Grades 11 & 12

Prerequisite: Publications 2

Publications III is an advanced yearbook creation course that is designed to provide students with a variety of experiences. Students will develop the theme and graphics to be used in the yearbook. Advanced page

design, page completion (which may include the senior section of the book), ad sales, planning, organizing, and implementing all aspects of a fundraiser, coverage duties (pictures and video), camera usage, and time management will also be implemented. These skills will be used in creating a publication which will capture school memories for years to come. Students will publish their work and learn how to manage and promote a business through yearbook production. Students must be able to attend events outside of school to conduct interviews, and take pictures / videos. These students will assume leadership responsibilities which may include Section Editor, Assistant Editor, Co-Editor, or Editor, depending on student productivity and performance in Publications I or II. Enrollment is limited.

Publications 4: Grade 12

Prerequisite: Publications 3

Advanced Publications (Publications IV) is an advanced yearbook creation course that is designed to provide students with a variety of experiences. Students will develop the theme and graphics to be used in the yearbook. They will participate in advanced page design, page completion (in particular the senior section of the book), ad sales, planning, organizing, and implementing all aspects of a fundraiser, coverage duties (pictures and video), and camera usage. Students will display effective time management. These skills will be used in creating a publication which will capture school memories for years to come. Students will publish their work and learn how to manage and promote a business through yearbook production. Students must be able to attend events outside of school to conduct interviews and take pictures/videos. These students also will be introduced and mentored as business managers, helping the teacher/adviser with the counting and depositing of money, check requests, management of the records, etc. Students will assume the responsibilities of either an Editor or Co-editor position, working directly with teacher/adviser and with all staff members.

Creative Writing Workshop: Grades 9 - 12

Creative writing is a large umbrella, covering a variety of subgenres that include both nonfiction and fiction writing. This course will focus on learning the craft of creative writing, encompassing both learning the elements of the various subgenres and developing one's own style of writing. The elements of reportage (accuracy, detail, exposition, research); the elements of fiction writing (narrative, scene, dialogue, point of view, rounded characters); and the elements of poetry writing Vivid detail/imagery, lyricism, reflection, and musicality blend in creative writing, connecting the writer, the reader, and the larger world. Students will be exposed in the assigned readings to an array of creative writing rich in its variety of voices, writing styles, and organization. Assignments are designed to encourage the creation and revision of drafts, working toward a portfolio of polished material at the end of the course. Activities may include but are not limited to: poetry, short story, personal essay, profiles, literary journalism, nature writing, etc. This is an elective course only.

Entrepreneurship & Innovation

Entrepreneurship 1: Grades 9-12

Entrepreneurship 1 is an engaging, project-based, course. Entrepreneurship 1 emphasizes entrepreneurial development and strategy skills. Students will develop a basic understanding of entrepreneurship, professional skills, and associated expectations, as well as develop a basic understanding of how to use financial information in ownership, to analyze a market, and to use marketing strategy to start a business. In addition, students will develop a business plan, learn how to obtain funding, and learn about the agencies businesses interact with to become a legitimate entity. Technology will be utilized throughout the course. Building and managing the school store will be an ongoing project throughout this course.

Entrepreneurship 2: Grades 10-12

Prerequisite: Entrepreneurship 1

Entrepreneurship 2 is an engaging, project-based, course. Entrepreneurship 2 is the second year of the Entrepreneurship program. The course continues to emphasize entrepreneurial development and strategy skills. Students will develop a basic understanding of entrepreneurship, professional skills, and associated expectations, as well as develop a basic understanding of how to use financial information in

ownership, to analyze a market, and to use marketing strategy to start a business. In addition, students will develop a business plan, learn how to obtain funding, and learn about the agencies businesses interact with to become a legitimate entity. Technology will be utilized throughout the course. Building and managing the school store will be an ongoing project throughout this course. Students in year 2 of the program may mentor students enrolled in the introductory course.

Entrepreneurship 3: Grades 11-12

Prerequisite: Entrepreneurship 2

Entrepreneurship 3 is an engaging, project-based, course. Entrepreneurship 3 is the third year of the Entrepreneurship program. The course continues to emphasize entrepreneurial development and strategy skills. Students will develop a basic understanding of entrepreneurship, professional skills, and associated expectations, as well as develop a basic understanding of how to use financial information in ownership, to analyze a market, and to use marketing strategy to start a business. In addition, students will develop a business plan, learn how to obtain funding, and learn about the agencies businesses interact with to become a legitimate entity. Technology will be utilized throughout the course. Building and managing the school store will be an ongoing project throughout this course. Students in year 3 of the program will take leadership roles in managing the school store and may mentor students enrolled in the first two courses.

Entrepreneurship 4: Grades 12

Prerequisite: Entrepreneurship 3

Entrepreneurship 4 is an engaging, project-based, course. Entrepreneurship 4 is the fourth year of the Entrepreneurship program. The course continues to emphasize entrepreneurial development and strategy skills. Students will develop a basic understanding of entrepreneurship, professional skills, and associated expectations, as well as develop a basic understanding of how to use financial information in ownership, to analyze a market, and to use marketing strategy to start a business. In addition, students will develop a business plan, learn how to obtain funding, and learn about the agencies businesses interact with to become a legitimate entity. Technology will be utilized throughout the course. Building and managing the school store will be an ongoing project throughout this course. Students in year 4 of the program will take leadership roles and may mentor students enrolled in the first three courses.

Mathematics

As you choose your math class(es), please follow the sequence of math courses to ensure that your registration form is accurate. The sequence of math courses follows:

Math Pathway 1:

iAlgebra 1A, iAlgebra 1B, iGeometry, iAlgebra 2 or Financial Math

Math Pathway 2:

Algebra 1, Geometry, Algebra 2, Financial Math, Trig/Precalculus, Calculus (AP/CHS), Statistics (AP/CHS)

Please note:

Students advanced in math may choose to take Geometry and Algebra 2 during the same year. If you are interested in doing this, please contact your counselor and/or current math teacher.

Financial Math may be taken as an elective in grades 11 or 12 or as the 12th grade math course

After completing Trig/Precalculus, students may elect to take either one or both Calculus and Statistics.

iAlgebra 1A: Grade 9

Prerequisite: iPreAlgebra 2

iAlgebra 1A focuses on the development of abstract thinking and reasoning of algebraic concepts. The course will emphasize skill development, practical applications and contain the major Algebra concepts students need to be successful in Algebra 1. Areas of concentration include, but are not limited to the following: integer laws, linear equations, linear inequalities, graphs and functions, slope, graphing linear

equations, graphing linear inequalities, systems of equations, and systems of inequalities. Students in this class will be utilizing the online Delta Math Program as an additional learning resource. As a result, students will have an opportunity to progress on an individual basis based on their academic needs throughout much of the course.

iAlgebra 1B: Grade 10

Prerequisite: iAlgebra 1A

iAlgebra 1B focuses on the development of abstract thinking and reasoning of algebraic concepts, continuing with the concepts introduced in iAlgebra 1A. Areas of concentration will include, but not be limited to the following: linear functions, linear inequalities, compound inequalities, literal equations, relations and functions, systems of equations, quadratic functions, polynomials, scatter plots, and exponent laws. Students in this class will be utilizing the online Delta Math Program as an additional learning resource. As a result, students will have an opportunity to progress on an individual basis based on their academic needs throughout much of the course. Students who take this course will take the Keystone Algebra I Exam at the end of the course.

Algebra 1: Grade 9

Prerequisite: PreAlgebra 2

Algebra 1 focuses on the development of abstract thinking and reasoning of algebraic concepts. The course will emphasize skill development, practical applications and contain the major Algebra concepts students need to be successful in Algebra 1. Areas of concentration include, but are not limited to the following: solving equations; solving inequalities; solving and applying proportions; graphs and functions; linear equations and their graphs; systems of equations and inequalities; exponents and exponential functions; polynomials; and factoring. Students who take this course will take the Keystone Algebra 1 Exam at the end of the course.

iGeometry: Grade 11

Prerequisite: iAlgebra 1B

This course includes the following concepts: Basics of Geometry, Pythagorean Theorem, parallel lines cut by transversals, geometric figures, geometric transformations, similar triangles, distance formula, midpoint formula, quadrilaterals, triangle properties, angles, perimeter, area, surface area and volume. Geometry is intended to provide the student with an appreciation of the structure of mathematics and its relation to the physical world. Students in this class will be utilizing the online Delta Math Program as an additional learning resource. As a result, students will have an opportunity to progress on an individual basis based on their academic needs throughout much of the course.

Geometry: Grades 9-11

Prerequisite: Algebra 1

Geometry focuses on the development of abstract thinking, critical thinking and reasoning of geometric concepts. The course will emphasize skill development, practical applications to the real world, and contain the major Geometric concepts that students need to be successful in Geometry. Areas of concentration include, but are not limited to the following: basics of geometry, reasoning and proof, parallel and perpendicular lines, transformations, congruency, similarity, quadrilaterals and other polygons, circles, surface area and volume, and right triangle trigonometry.

iAlgebra 2: Grades 10-12

Prerequisite: iGeometry

iAlgebra 2 focuses on the development of abstract thinking and reasoning of algebraic concepts, continuing with the concepts introduced in iAlgebra 1A and 1B. Areas of concentration will include, but not be limited to the following: polynomial functions, factoring, quadratic equations and functions, complex numbers, real number system, Fundamental Theorem of Algebra, exponential functions, and rational functions. Students in this class will be utilizing the online Delta Math Program as an additional learning resource. As a result, students will have an opportunity to progress on an individual basis based on their academic needs throughout much of the course.

Algebra 2: Grades 9-12

Prerequisite: Geometry

Algebra 2 focuses on the development of abstract thinking and reasoning of algebraic concepts, continuing with the concepts introduced in Algebra 1. Areas of concentration will include, but not be limited to the following: functions, equations, graphs, linear systems, matrices, quadratic equations and functions, polynomials and polynomial functions, exponential and logarithmic functions, rational functions and quadratic relations.

Trigonometry/Pre-Calculus: Grades 10-12

Prerequisite: Algebra 2

Students in Trigonometry/Pre-Calculus will spend the first semester on Trigonometry concepts and the second semester on Pre-Calculus concepts. This course is a rigorous course that will encompass trigonometry using a right triangle approach and applications to trigonometric problem solving. Circular functions and their graphs will be covered. Pre-Calculus concepts include: polynomial, exponential, and logarithmic functions and their characteristics. Transformations of graphs, domain and range, and inverses will be taught. An introduction to limits, partial fractions, and derivatives will be taught in preparation for Calculus. A graphing calculator (TI-84 series) is required.

Calculus (AP): Grades 11 & 12

Prerequisite: Trigonometry/Pre-Calculus

This weighted course is designed for those students who intend to study Calculus in college. Calculus includes the study of limits and continuity, derivatives and applications of derivatives, integration and application of integrals. In addition, the course will include a thorough use of the Texas Instrument graphing calculator to prepare students for college calculus courses. A TI83 graphing calculator (not provided by the district) is required. If taking an AP course, the AP Exam is mandatory for course weighting.

Statistics (CHS/AP): Grade 12

Prerequisite: Algebra 2

Basic Applied Statistics is a weighted course which provides a basic course for students planning a career in mathematics, physical science, engineering sciences, economics, business, education, psychology, sociology, and medicine. This course teaches methods of descriptive and inferential statistics. Topics include data collection and description, hypothesis testing, correlation and regression, the analysis of variance and contingency tables. Students will learn how to use a statistical computer package. A TI 83 graphing calculator is required for this course. This course may be taken as a College in High School (CHS) course or an Advanced Placement (AP) course. Students must inform the instructor of their choice and pay the appropriate fee for their choice of option. If taking an AP course, the AP Exam is mandatory for course weighting. As the CHS option, the student must take and pass the online college placement exam. Upon successful completion of the exam, the student must register to earn 4 University of Pittsburgh credits that will be transferable to most universities.

Financial Math: Grades 11 and 12

This course is designed to represent those standards of learning that are essential and necessary for all students. The implementation of the ideas, concepts, knowledge, and skills contained in this course will enable students to implement those decision-making skills they must apply and use to become wise and knowledgeable consumers, savers, investors, users of credit, money managers, citizens, and members of a global workforce and society. The concepts included in this course include, but are not limited to: record keeping, mortgages, debt, credit cards, bonds, savings, interest rates, supply/demand concepts, pricing levels/rates of returns, taxes, investments, and insurances. The course may be accepted as the fourth math course necessary to meet graduation requirements.

Facts & Finance: Grade 10

Graduation Requirement

The purpose of this course is to better prepare students for adulthood and post-secondary experiences. The course will provide learning activities that will allow students the opportunity to develop skills and research information in four primary areas: career exploration, post-secondary planning, financial responsibility, and wellness. Students will have the opportunity to learn about and research various careers that are available in the 21st century workforce and, in turn, discover what educational paths are required in such fields. Students

will also learn the financial requirements associated with independent learning, which may include, but are not limited to: banking, credit responsibility, cost of living, etc. In addition, students will discuss ways to maintain healthy living. This course is mandatory for students in 10th grade. This course is equal to 0.5 credit and meets the Transition to Adulthood graduation requirement.

Music

Band: Grades 7 - 12

This course will provide a student the opportunity to play a musical instrument. Students will be taught a wide variety of musical techniques including: phrasing, breathing, and tonguing (legato and staccato). Students will also become acquainted with standard symphonic band music. Students will learn to play a traditional band instrument with proficiency to enable him/her to sight read a selection with some degree of accuracy. The student should be able to control dynamics and have a sense of phrasing, rhythm, and meter. Students will have studied their instruments either through private lessons or school instruction. Students will be required to attend all public performances.

Band is divided into two major areas: Marching and Concert.

Marching Band: The season begins with band camp that begins in early August. The school calendar and the date of the Washington County Fair determine the exact dates for band camp. All students (with the exception of late transfer students) must attend band camp. Students must have been in Concert Band in sixth grade to participate in Marching Band. The music performed during marching season is to be suitable for outdoor performances at parades, football games and pep rallies. Music repertoire consists mainly of pop/show tunes and marches, but is by no means limited in any sense. Students should be aware that some of the band's activities take place outside of school and on some selected Saturdays. Grades are determined by attendance at the events and participation in rehearsals. Students who are members of the band will earn one credit. (Drill team members and majorettes will earn one credit only if they are members of the band.) Requisite: Participants in band (marching and concert) must attend all public performances. See Band Handbook for more information.

Concert Band: Participants in concert band must be members of the marching band. This program is to provide the student an opportunity to become acquainted with the ever-growing field of symphonic and pop concert music. An effort will be made to present all types of music in order to elevate the student's understanding of the aesthetic, historical and theoretical aspects of instrumental music. The repertoire consists of overtures, show music, pop music, instrumental solos with accompaniment, small ensembles, and symphonic band pieces. Students should realize that some activities outside of school will be required. Two concerts are traditionally scheduled: A Christmas concert and spring concert. Requisite: Participants in concert band must perform in all scheduled activities.

Chorus: Grades 9-12

This course focuses on tone quality, intonation and proper vocal technique. Students will study basic music theory and learn to sight read melodic patterns using solfege. This chorus will perform a variety of musical literature at the Winter and Spring Concerts.

Requisite: Participants in Chorus are required to attend and perform in all scheduled concerts/performances.

Encore Ensemble: Grades 9-12

Prerequisite: Audition by Director, 1 year of choral experience

Encore Ensemble is a non-credit course for motivated vocal students who have the desire and ability to function at a high level of musicianship and will give the student experience with literature of many genres, music theory and sight-reading. Encore members are scheduled in Mrs. Garry's homeroom and rehearse

during that time. Students must be in Chorus for at least one year to be eligible for this ensemble. Students must audition demonstrating correct vocal technique and advanced music reading skills.

Requisite: Participants in Encore must have Chorus in their daily schedule to be a member and must attend and perform in all scheduled concerts/performances.

Science

Anatomy and Physiology: Grades 10 - 12

Prerequisite: Biology 1

This course reviews the cell, the cell cycle, cellular metabolism and genetics from Biology 1, with an emphasis on human biology. Students familiarize themselves with directional terms (e.g. superior, inferior...) and anatomical movements (e.g. adduction, abduction...) to describe the anatomy and physiology of the human body. The course investigates different tissues of the body and human body systems (e.g. integumentary, skeletal, muscular, circulatory, nervous...). Students also explore common causes of human disease and injury, as well as advances in human medicine. Project-based and hands-on learning opportunities include microscopy, experiments, construction of models, and (optional, but encouraged) dissections.

Biology 1: Grade 9

Biology 1 is a course in which students are given the solid foundation they need to understand the expanding role of biology in modern society. Topics include: biological processes, biochemistry principles, bioenergetics, ecology, evolution, cellular and molecular biology, and genetics. Students will develop and apply critical thinking, scientific process, and communication skills by performing laboratory activities and analyzing theories. Students who take this course will take the Keystone Biology Exam at the end of the course.

Honors Biology 1: Grades 9

Prerequisite: Teacher Recommendation

Honors Biology 1 is offered as a first year course in biology. Students in this course typically will take one or more Advanced Placement science courses as they proceed through high school. The aim of the course is to engage students in the wonders of the living world. The lives of all students will be touched by biology every day and understanding the concepts of biology and their connections to our lives is more important than ever. The goal of Honors Biology is threefold. First, the course gives students the framework of key biological concepts into which they can integrate the many new concepts that they learn and encounter throughout their lives. Second, the course familiarizes students with the scientific process. Third, the course exposes the students to a deeper understanding of the concepts at a more rigorous pace. Topics include: biological processes, biochemistry principles, bioenergetics, ecology, evolution, cellular and molecular biology, and genetics. Students will develop and apply critical thinking, scientific process, and communication skills by performing laboratory activities and analyzing theories. A summer assignment is required for credit. Incomplete summer assignments will significantly impact the first 9-week grade. Students who take this course will take the Keystone Biology Exam at the end of the course.

AP Biology: Grades 11 & 12

Prerequisite: Teacher Recommendation

This accelerated course exposes students to a college level course in both the amount and depth of material covered. It is designed to offer students a solid foundation in introductory college-level biology. The core focus of the course is to prepare the student to be successful on the AP exam given by the College Board in May. (There is a fee for the test.) The AP Exam is mandatory for course weighting. Students must have completed biology and chemistry with an A or B average prior to enrolling in AP Biology. Students must also schedule the AP Biology Laboratory that meets daily. The course is structured around the four big ideas, enduring understandings, essential knowledge, and science practices that are defined by the AP Biology Curriculum Framework. Students will also develop advanced reasoning skills and connect

concepts in and across all domains of life. As students develop an appreciation for the study of life, they will be able to identify and understand unifying principles within a diversified biological world. Because our understanding of biology today is a result of inquiry, developing critical thinking skills through the process of inquiry is an important part of this course. A summer assignment is used to review basic principles of science and to experience the expected rigor of the course. Many different biology topics will be covered in a short amount of time. Those topics include Biochemistry, Cells, Metabolism, Cell Division, Heredity, Molecular Biology, Evolution, and Ecology.

AP Biology Laboratory: Grades 11 & 12**Co-requisite: Enrollment in AP Biology course**

The lab focuses on seven overarching practices that capture important aspects of the work of scientists and is intended to challenge students' abilities to: (1) use representations and models to communicate scientific phenomena and solve scientific problems; (2) use mathematics appropriately; (3) engage in scientific questioning to extend thinking or to guide investigations within the context of the AP course; (4) plan and implement data collection strategies in relation to a particular scientific question; (5) perform data analysis and evaluation of evidence; (6) work with scientific explanations and theories; and (7) connect and relate knowledge across various scales, concepts and representations in and across domains. In these laboratories, students are challenged to perform experiments drawn from some of the more important areas within modern biology. These areas may include, but are not limited to the following: diffusion and osmosis, enzyme catalysis, mitosis and meiosis, photosynthesis, cell respiration, molecular biology, genetics of organisms, population genetics and evolution, transpiration, animal behavior, and energy dynamics.

**Note: Grades will be based on a pass/fail system.

Chemistry 1: Grade 10

Chemistry is defined as the study of the composition, structure, properties, and changes in matter. This course moves from basic matter classifications through atomic structure, chemical bonding, stoichiometry, and finishes with gas behavior. Throughout the year, students will receive hands-on experience through a series of laboratory experiments. These experiments will reinforce many of the concepts that are learned in the classroom along with job related skills such as team collaboration and scientific writing.

Chemistry 2: Grades 11 & 12

Chemistry 2 has been designed for the student that has a strong interest in chemistry or may pursue a career in science. This course will address the following topics: thermodynamics, chemical kinetics, organic chemistry, aqueous reactions, chemical equilibrium, acids/bases, environmental chemistry, nuclear chemistry, and electrochemistry. Laboratory experiments are an important part of this curriculum. Proper lab technique, calculations, and results will be emphasized. A lab journal must be maintained.

AP Chemistry: Grade 12**Prerequisite: Teacher Recommendation**

This course has been designed to provide a college level chemistry program in high school. The program is comparable to a college classroom with regards to content, assessment, and atmosphere.

Each class period runs 41 minutes. Grades are based upon test/quiz scores, homework, lab reports, and projects. The grading scale is a basic 90-80-70-60 scale. Each experiment is completed with a lab report. The lab report consists of a purpose, objectives, materials, procedures, data, calculations, results, and conclusions. All reports are graded and returned for the purpose of a student portfolio used for test prep. Each student must submit an individual report. However, individual students and lab groups are encouraged to collaborate with other groups. Within each unit, emphasis is placed on problem solving. Whenever possible, information is presented both qualitatively and quantitatively to expand the students' knowledge base and derive chemical principles using mathematics.

AP Chemistry Laboratory: Grade 12**Co-requisite: Enrollment in AP Chemistry course**

The laboratory is the place to learn the difference between observations/recorded data (i.e., facts) and the ideas, inferences, explanations, models (i.e., theories) that may be used to interpret them but are often incomplete or never actually observed. The lab will challenge student's ability to: (1) think analytically and

to reduce problems to identifiable, answerable questions; (2) understand problems expressed as experimental questions; (3) design and carry out experiments that answer questions; (4) manipulate data acquired during an experiment; (5) make conclusions and evaluate the quality and validity of such conclusions; (6) propose further questions for study; and (7) communicate accurately and meaningfully about observations and conclusions.

**Note: Grades for this lab will be based on a pass/fail system.

Conceptual Physics: Grades 11 & 12

This course provides a conceptually-based exposure to the fundamental principles and processes of the physical world. Topics include the history of science; scientific tools (conversions and graphing); describing motion using words, graphs, and equations; and explaining motion using forces. Upon completion, students should be able to describe examples and applications of the principles studied. Laboratory experiments enhance and consolidate the understanding of basic physical principles and applications.

Physics: Grades 11 & 12

Recommendation: Currently taking/completed Algebra 2

This course provides an algebra-based exposure to the fundamental principles and processes of the physical world. Knowledge of the trigonometric functions will be helpful but is not required. Topics include the history of science, describing motion, graphing motion, forces, electricity, and energy. Upon completion, students should be able to describe examples and applications of the principles studied. Laboratory experiments enhance and consolidate the understanding of basic physical principles and applications.

AP Physics 1: Grades 11 & 12

Recommendation: Currently taking/completed Trig/PreCalc

AP Physics 1 is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Through inquiry based learning, students will develop scientific critical thinking and reasoning skills. There will be a lab period two days per week where students will perform and design hands-on experiments of physics principles.

AP Physics 1 Laboratory: Grades 11 & 12

Co-requisite: Enrollment in AP Physics 1 course

In textbooks and problems, most attention is paid to idealized situations: friction is often assumed to be constant or absent; meters read true values; heat insulators are perfect; gasses follow the ideal gas equation. The laboratory is the place where the validity of these assumptions can be questioned. The lab will challenge student's ability to: (1) design experiments; (2) observe and measure real phenomena; (3) organize, display, and critically analyze data; (4) analyze sources of error and determine uncertainties in measurement; (5) draw inferences from observations and data; and (6) communicate results, including suggested ways to improve experiments and proposed questions for further study.

**Note: Grades for this lab will be based on a pass/fail system.

Social Studies

U.S. History 1: Pre 1865: Grade 9

This is a required course of all ninth graders. It is a survey course that covers the history of the United States from the early exploration period until the end of Reconstruction in 1877.

U.S. History 2: 1865-Present: Grade 10

This course is required of all sophomores and is a survey and analysis of how and why the United States became the foremost power of today. The course offers students a lively chronological history of the U.S., from the end of the Civil War to the present. The major purpose of teaching American History is to provide the students with a general overview of the U.S. History, to help students gain insights into relationships among people, ideas and events as they learn the significant facts of American history, and to help students

have a better understanding of history and its study. Focus is divided between learning course content (history) and process (map skills, reading comprehension, etc.).

AP United States History: Grades 10-12

This course may be substituted for US History 2. AP United States History is a survey course encompassing the history of the United States from the Colonial Era to the present. The course will be taught on an introductory college level. AP United States History will consist of frequent outside readings, essay tests, two term papers, as well as both written and oral seminar reports. The emphasis of the course will be an analytical view of past events as they apply to America today. Students can also opt to take this class as a College in High School course through the University of Pittsburgh to earn additional college credits.

Political Science & Economics: Grade 10-12

This course is a comprehensive study of the national government focusing on the history of the American Government, the U.S. Constitution (the Six Basic Principles upon which the Constitution was built), and the powers of Congress, the President, and the Supreme Court. State and local governments will be covered and compared/contrasted with the national government. Economics will be incorporated while focusing on the concept of “Globalization” and how any global economy can impact the American economy. Concepts included in this introduction to Economics will include scarcity, marginal costs/benefits, allocation of goods and services, markets (price and quantity determination) and the role of price/competition/money.

Sociology: Grades 10-12

This is an introduction to the study of groups of people along with a survey of the criminal justice system; its processes, and its importance to the student. Emphasis is placed on the value and responsibility of the individual as a member of society.

World Conflict: Grades 10-12

In this course students will examine historical patterns and trends that lead to world conflict through project-based learning opportunities. This course will examine the following categories of conflict including geographical, political, cultural, religious, and economic conflicts. Themes examined include; Genocide, Terrorism, Challenge of Nuclear Weapons, Middle East Issues, Immigration and US Policy debate, and Questions of Justice.

Psychology: Grades 10 - 12

This is an introductory course of the study of individual behavior. Course content will include specialized units such as motivation, emotion, memory, problem solving, cognition and sensory processes. Developmental, educational, and abnormal psychology are included in this course.

AP Psychology: Grades 11 & 12

Recommendation: Psychology

Why do humans act the way we do in any given situation? What is more important in a child's upbringing; nature or nurture? Do humans have ESP? How accurate is a lie detector test? Why do we dream? How does the brain control different parts of the body? Can we condition fear and emotion into a person? What is the criteria for having a mental disorder? What research methods do psychologists use to answer these questions? These are all examples of the many questions that will be addressed throughout Advanced Placement Psychology. Students will examine both historic and contemporary studies on human behavior and the structure of the mind. AP Psychology is a class that will require frequent writing assignments, research projects, note taking, tests and quizzes with an essay component, and frequent independent or group work. AP Psychology introduces and investigates major ideas and concepts equivalent to an introductory college level course. The course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Course content

ranges from biological processes of the human body to specific psychological disorders. Students will acquire a greater appreciation for their own human experience by thinking critically and challenging their own perceptions and beliefs. Students completing this course must take the AP Exam.

CHS Western Civilization 2: Grades 11 & 12

This is an introductory-level course in Western European History that handles topics from the Scientific Revolution to the Cold War. It provides a framework for those who will continue in the study of History, and it provides an overview for those seeking to fulfill “General Education” requirements. This course will introduce major questions of historical process and it will emphasize chronological, comparative, and contextual reasoning and the construction of original arguments grounded in historical evidence. This course may be taken as a College in High School (CHS) course. Students must inform the instructor and pay the appropriate fee for the credits. Students can also opt to take the AP European History exam in an attempt to earn additional college credits.

Wellness (Health and Physical Education)

Wellness: Grade 9-12

The programs developed by the Wellness department are to help the students meet their everyday physical and recreational needs. Students will learn basic movement skills and essential knowledge regarding the relation of physical activity to physical, mental, emotional, and social development. Students will participate in many activities related to Team Sports, Lifetime Sports, Fitness, and Recreational Games. Health for grades 9 & 11 are integrated into the Wellness 9 and Wellness 11 courses.

Adapted Wellness: Grades 9-12

This program is designed specifically for those students who are unable to participate in regular physical education class due to injury, handicap or other physical disorder. Students in need of Adaptive Physical Education MUST have a physician referral and an individualized program will be developed to meet the student’s special needs.

World Languages

Spanish 1: Grades 9-12

Level 1 introduces students to Spanish language and culture to the student through listening, speaking, reading, and writing. Major emphasis is placed on developing an understanding of basic language structure (giving the student a foundation for later language study), while introducing basic vocabulary, common idiomatic expressions, grammar, and pronunciation practice.

Spanish 2: Grades 9-12

Prerequisite: Spanish 1

Level 2 continues developing and strengthening the four language skills - listening, speaking, reading, and writing. This is done through grammatical analysis, written and oral exercises, and understanding customs and culture from the Hispanic world. Major emphasis is placed on the application of the four skills so that they may be able to express themselves in Spanish in various situations.

Spanish 3: Grades 9-12

Prerequisite: Spanish 2

Level 3 focuses on individualized student development leading toward confident self-expression in all phases of the language. The four language skills - listening, speaking, reading, and writing are strengthened through the reading of edited works and magazine articles, the writing of summaries and reactions, oral reports and presentations, conversations based on class readings

and listening to native speakers. The student will determine language deficiencies and refine language ability with grammatical analysis and exercises.

Spanish 4: Grades 10-12

Prerequisite: Spanish 3

Spanish 4 is designed for the development of upper level grammatical structures and vocabulary that will propel students into closer fluency. Students will be expected to write, read, speak, and listen in the target language at all times during the class. Information will be adapted to the desired content of those taking the course with an in-depth discovery of the Spanish language. Students will be given tasks of conducting discussions with native speakers, writing short stories in the Spanish language, and more. This challenging course will build confidence the students will need to comfortably communicate in the Spanish language.

German 1: Grades 9-12

Level 1 introduces students to German language and culture to the student through listening, speaking, reading, and writing. Major emphasis is placed on developing an understanding of basic language structure (giving the student a foundation for later language study), while introducing basic vocabulary, common idiomatic expressions, grammar, and pronunciation practice.

German 2: Grades 9-12

Prerequisite: German 1

Level 2 continues developing and strengthening the four language skills - listening, speaking, reading, and writing. This is done through grammatical analysis, written and oral exercises, and understanding customs and culture from the German world. Major emphasis is placed on the application of the four skills so that they may be able to express themselves in German in various situations.

German 3: Grades 9-12

Prerequisite: German 2

Level 3 further continues the development and strengthening of the four language skills - listening, speaking, reading, and writing. This is extensively done through grammatical analysis, written and oral exercises, and understanding customs and culture from the German world. Even more emphasis is placed on the application of the four skills so that they may be able to express themselves fluently in German in various situations.

Western Area Career & Technology Center (WACTC)

(Web address: www.wactc.net)

Admission Procedures

Students for the Western Area Career and Technology Center are selected on the basis of interest, ability, aptitude, and parental approval. Students must file an application with the School Counselor for consideration. To enter WACTC, a student must pass all four required major subjects in the previous school year or remediate any failed subjects in summer school. Care must be taken to ensure that all curriculum requirements for graduation are met. Continuation in the program is contingent upon regular attendance as well as satisfactory performance in the program.

Automation and Robotics Engineering: Grades 10-12

This three-year program prepares tenth, eleventh, and twelfth grade students for work in industry or continued education in engineering-related fields by focusing on all aspects of industrial and commercial machines and robotics. The program includes design activities and instruction in operation, set-up, maintenance, troubleshooting, and repair of machines and systems found in commercial, packaging, medical, and food production facilities where high tech equipment is used. Curriculum and instruction include the areas of Electricity, Electronics, Sensor Technology, Machine Operations and Maintenance, Industrial Electronics, Computer Machine Controls, Machine Repair, Motors and Control Applied Physics, Fluid Power, Mechanical Components, Schematic Interpretation and Quality Control. Students are trained on a wide variety of tools for preventative maintenance and construction of equipment. Individuals entering this career should possess good mechanical aptitude, eye-hand coordination, math skills, manual dexterity, critical thinking skills, and the ability to work as a team member.

Automotive Mechanics: Grades 10-12

The three-year Automotive Mechanics program is for tenth, eleventh, and twelfth grade students. This program will prepare students for employment in the auto repair industry working with parts, tune-ups, brakes, transmissions, electrical and fuel systems. The program will also assist in the diagnosis and repair of various drivability conditions and routine vehicle maintenance.

Carpentry: Grades 10-12

This three-year program prepares tenth, eleventh, and twelfth graders for all phases of residential carpentry. The course is taught in sequence with the construction of a house. Site layout, footer layout and forming, rough framing, exterior finish and roofing, insulation, drywall and interior finish are covered. Each unit is taught in conjunction with related safety, estimating and blueprint reading. Completers achieve skills needed to attain employment as a carpenter.

Collision Repair Technology: Grades 10-12

Through theory and related hands-on classroom instruction, students in this program will learn the latest techniques in five major topics. Upon completion, students will take the Automotive Service Excellence (A.S.E.) certification exam and the Martin Senour Paint certification exam along with Lords Fusor Adhesives certification exam.

Computer Networking: Grades 10-12

This three-year program provides tenth, eleventh, and twelfth graders with meaningful training toward a career and/or further study in the rapidly expanding occupational area through gainful, positive experiences whether or not they are coming from districts having their own networking programs. This program provides information and hands-on activity leading to certifications such

as Cisco, Microsoft Certified Engineer, A+ and others. Networking topics include Software, Hardware, Operating Systems, Installation and Solutions.

Cosmetology: Grades 10-12

Cosmetology is a three-year course for tenth, eleventh, and twelfth grade students. The course will be operated by the Western ACTC under the regulations of the State Board of Cosmetology. Students with regular attendance will receive the required 1250 hours of training needed to take the State Board exams for licensing.

Culinary Arts: Grades 10-12

Instruction includes theory and applications related to food preparation, menu and banquet planning, food and beverage purchasing, quality control, cost analysis, safety and sanitation. Students learn the safe and proper use of hand tools in the industry. Program components include Commercial Baking, Catering, Regional and International Foods, Meat Cutting, Cooking Methods, Nutrition, Safety and Sanitation. Program completion qualifies students for positions in the food service industry or advanced study at a culinary institute or college. The culinary program includes hospitality coursework providing practical experiences in lodging management, office operation, leadership and management; marketing, food and beverage service; and operation of the physical plant.

Electrical Occupations: Grades 10-12

This three-year program prepares tenth, eleventh, and twelfth grade students for employment in the fields of residential, commercial and industrial wiring, installation and maintenance of equipment including electrical motors, transformers, control systems, communications systems, fiber optics and related equipment. Completers of the three-year course receive West Penn Wire CDT (fiber optics) certification.

Emergency & Protective Services: Grades 10-12

This course provides three years of classroom and practical experience for entrance into the field of public safety via in-depth training to perform duties as a police officer, fire fighter, emergency medical technician and other public safety-related careers. The application of math, English, communications, science and physics is demonstrated throughout the course. Students receive training in social and psychological skills, vehicle and equipment operations, the judicial system, pre-hospital emergency medical crew, fire prevention and control, hazardous materials and emergency management.

Health Assistant: Grades 10-12

This course prepares students for careers in the health field. Students are provided clinical experiences in long-term care facilities to enhance the learning experience and assist in the transition to employment. Core curriculum includes an Overview of Health Careers, Basic Anatomy and Physiology, Medical Terminology, Basic Nursing procedures, Universal Precautions, Legal and Ethical Aspects of Health Care and Communication Skills. Students are also provided instruction to qualify them for certification in CPR and CNA.

Heating & Air Conditioning: Grades 10-12

This three-year program prepares tenth, eleventh, and twelfth grade students preparing them for employment to assist the mechanic in the servicing and installation of residential and commercial heating and cooling systems. Students are also prepared for the EPA certification exam for safe refrigerant handling.

Machine Shop: Grades 10-12

This three-year course provides tenth, eleventh, and twelfth graders the skills needed for entry into the machining field through basic hands-on machining practice on lathes, milling machines and grinders. Topics include set-up, tool selection and methods used on various materials such as steel, aluminum and brass. Computer-part programming and machine operation are also included in the training.

Masonry: Grades 10-12

This three-year instructional program for tenth, eleventh, and twelfth grade students prepares them in brick, block, stone, concrete, tuck pointing and artificial stone construction. Students learn the types and sizes of masonry materials, various applications for materials, blueprint reading, masonry symbols, use of measuring instruments, leveling instruments, layout and design, bonds, hand tools, masonry equipment, mortar mixing, concrete mixing, estimation, practical problems in mathematics, preparation of material lists, masonry saw, tile saw, 14" dry cut saw, hammer drill, demolition, fireplaces, chimneys, barbecue fireplace, steps, walls, scaffold construction, etc.

Welding: Grades 10-12

Prepares students in oxy-fuel, shielded metal arc, gas metal arc, gas tungsten arc, flux core welding, carbon arc, plasma cutting, manual and radiograph cutting and oxy-fuel brazing processes. Tenth, eleventh, and twelfth grade students learn the use of measuring instruments, hand tools, portable grinders, metallurgy, blueprint reading, electrical principles, layout and design, fabrication, practical problems in math, preparation of material lists, cost estimating and quality assurance methods. Successful students will be given the opportunity to earn AWS certifications.

Cooperative Education: Grades 11 & 12

Cooperative Education (Co-op) is an educational work experience for students to relate classroom experience with real world employment. It is available to vocational students in all provided specialized areas at WACTC. Students connect classroom learning with work-based learning experiences that teaches employability skills and supports supervised on-the-job training. Co-op provides students an opportunity to work with employers, educators, community leaders, other students and parents. It prepares students for the "real world". This program enables students with specific career objectives matched with related paid employment experiences while they attend planned periods of related classroom theory during school.

Registered Youth Apprenticeship Program: Grades 11 & 12

The Youth Apprenticeship Program is an all-inclusive educational program offered entirely at Western Area CTC for students in their junior and senior years of high school. Students receive a comprehensive education, which includes academic course requirements and technical training. Four apprenticeship programs are available: Manufacturing, Automotive Technology, Food Services, and Health-Related: Medical Secretary and Medical Record Technician. Students also receive technical training at a job site. This site gives the student the ability to apply skills and knowledge learned at Western Area CTC as well as to learn and reinforce skills needed to compete in the real work world.

Parkway West Career and Technology Center (PWCTC)

(Web address: www.parkwaywest.org)

Admission Procedures:

Students for the Parkway West Career and Technology Center are selected on the basis of interest, ability, aptitude, and parental approval. Students must file an application with the School Counselor for consideration. To enter PWCTC, a student must pass all four required major subjects in the previous school year or remediate any failed subjects in summer school. Care must be taken to ensure that all curriculum requirements for graduation are met. Continuation in the program is contingent upon regular attendance as well as satisfactory performance in the program.

Veterinary Technology: Grades 9-12

Students will learn to keep medical records, schedule appointments, offer client education, practice laboratory procedures, assist with nursing duties, prepare animals for surgeries, and assist during routine physical exams. 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, Veterinary Assistant, Kennel Assistant, Research Assistant, Groomers, Animal Control Workers, Veterinary Technician, Veterinary Technologist and Veterinarian. Students may earn the following certifications: NAVTA, OSHA 10 Agriculture, OSHA 10 Healthcare, Pet Tech First Aid and CPR.

Diesel Technology: Grades 9-12

Diesel Technology is part of every aspect of today's transportation, construction, and manufacturing industries. In Diesel Technology, students will learn about the operation, maintenance, and overhaul of diesel powered equipment. Diesel engines are found in military vehicles, trucks, trains, buses, construction and agricultural equipment. As the diesel equipment industry expands, the demand for mechanics and technicians to repair and maintain diesel equipment will continue to grow. Students will learn the fundamentals of hydraulics and have the opportunity to earn an Air Conditioning Recovery Certification. Students can earn certifications from the National Institute for Automotive Service Excellence (ASE), Refrigeration 609, Class I & III State Inspection, Forklift Operations.

Graphic Arts and Production Technology: Grades 9-12

Graphic Arts & Production Technology is an instructional program that prepares individuals to apply technical knowledge and skills to plan, prepare and execute commercial and industrial visual image and print products using mechanical and digital graphic and printing equipment. Students learn desktop publishing, layout, composition, digital printing and bindery as well as photography and other graphic arts techniques. Emphasis is on typographical layout and design using computer graphics, digital printing, bindery and finishing techniques, ink and color preparation. Students will also learn large format digital printing with application of a wide variety of output and vinyl applications including heat press and apparel design.

Nail Technician: Grades 12

This license requires 200 hours of instruction and can be completed within one year. An individual holding a nail technician license is qualified to perform nail technology services only.

Sports Medicine and Rehabilitation Therapy Technology: Grades 9-12

The Sports Medicine and Rehabilitation Therapy Technology (SMARTT) Program prepares students to work in the field of physical therapy, occupational therapy and sports medicine. Students will develop skills in prevention, assessment, prognosis, and rehabilitation of injuries

and other health conditions. Students will learn the principles of developing a plan of care, including: evaluation, interventions, assessment, goal setting and discharge. Students will also learn how to develop a diet for healthy individuals and for special populations through a comprehensive understanding of nutrition. Students will also be prepared to sit for the ACSM certified personal trainer exam and have the opportunity to earn the CPT credential.

Cyber Security and Networking Technology: Grades 9-12

The Cyber Security and Networking program prepares students who are interested in networking and computer diagnostics. It begins with Cisco IT Essentials, PC Hardware and software, and networking operating systems. Students initially prepare for CompTIA A+ and Comp TIA Server + certifications and then, through Cisco CCNA Discovery 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.

Power Motor Sports: Grades 9-12

Power Motorsports Technology teaches students to diagnose, maintain and repair utility vehicles, all-terrain vehicles, including side-by-sides, motorcycles, water crafts as well as outdoor power machines, including lawn and garden equipment. Students will learn the principles of engine operation, understand basic electricity, service and maintain fuel and carburetor systems, transmissions, and powertrain systems used on various types of recreational and lawn & garden equipment. Students may have the opportunity to earn the following certifications: PA Emissions Certification; S/P2, OSHA 10.