PATHWAYS TO SUCCESS

BIG SPRING HIGH SCHOOL

HIGH SCHOOL COURSE SELECTION GUIDE

2026-2027

A Career Pathways Planning
& Course Selection Guide
For Students & Parents

BIG SPRING SCHOOL DISTRICT

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Joseph Sinkovich, *Assistant Principal*
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School Counselors

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Adam Oldham, *Class of 2029*
Kylie Shaul, *Class of 2028*

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Big Spring School District is an equal opportunity education institution and will not discriminate on the basis of race, color, national origin, sex or disability in its activities, programs or employment practices as required by Title VI, the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, and Section 504 of the Rehabilitation Act of 1973.

BIG SPRING HIGH SCHOOL

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100 Mount Rock Road
Newville, PA 17241
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Dear Big Spring High School Families:

Each year, the turning of the academic calendar invites us to pause – not only to reflect on where we have been, but to consider thoughtfully where we hope to go next.

The pages that follow represent far more than a list of classes or graduation requirements. They are, in many ways, an invitation. An invitation to explore interests, discover strengths, challenge assumptions, and imagine new possibilities. Course selection is one of the first opportunities students have to take meaningful ownership of their education, and with that opportunity comes both excitement and responsibility.

To our students: I encourage you to approach this process with curiosity and courage. Choose courses that stretch your thinking, deepen your understanding, and help you grow – not only academically, but personally. Some paths will feel familiar; others may feel uncertain. Both have value. Progress is rarely made by remaining entirely comfortable.

To our families: your guidance matters greatly. The conversations you share at home about goals, interests, and aspirations help students make choices that align with both their present abilities and future dreams. Your support and encouragement form an essential foundation for their success.

No single schedule defines a student, just as no single year defines a life. What matters most is the steady commitment to learning, effort, and growth. Along the way, our school counselors, teachers, and administrators stand ready to offer guidance and insight, ensuring that each student builds a program of study that is both challenging and achievable.

As you review this guide together, I invite you to think not only about credits and requirements, but about purpose. Education is not merely preparation for a career – it is preparation for citizenship, compassion, and thoughtful participation in the wider world.

May your choices be guided by ambition balanced with wisdom, and may this coming year bring discovery, perseverance, and pride in accomplishments earned.

Sincerely,

Michael Carnes

Dr. Michael Carnes
Big Spring High School Principal

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INTRODUCTION

Earning an education is one of the most important tasks young people have to accomplish as they transition into adulthood. This process becomes progressively more important and often more difficult as students move from middle school into high school.

Big Spring High School offers a broad curriculum with specific elective courses that will, to a large extent, determine the options available to students once they graduate and look for work. Creating a strong academic history that is both challenging and enjoyable will promote personal satisfaction and access to a wider world of opportunity after graduation!

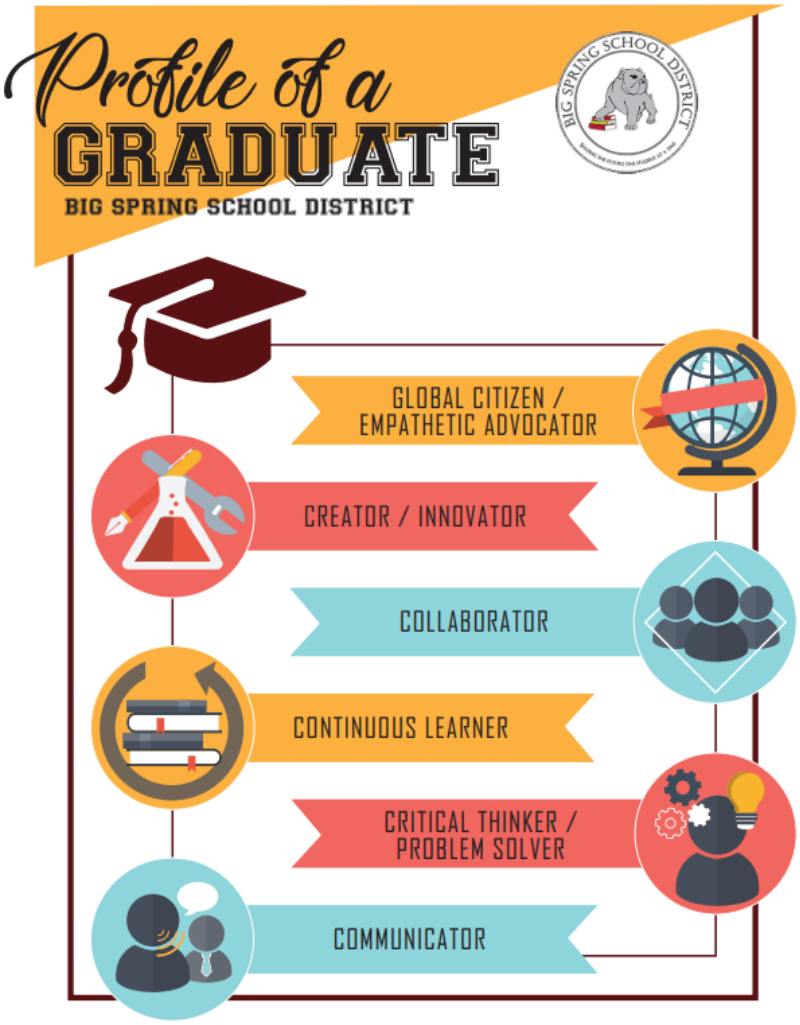
It is important to consider your future goals and dreams as you select courses for next year. The world of work is rapidly changing as existing jobs become more complex and new jobs demand increased levels of education. Career planning is a life-long process that begins with the selection of courses during the high school years.

It is important for all students to think two and three years ahead and consider how this year's course selections might have an impact upon future opportunities.

A decision about your program of studies is not made by you alone. It is a cooperative effort on the part of you the student, your parents, teachers, counselors, and administrators.

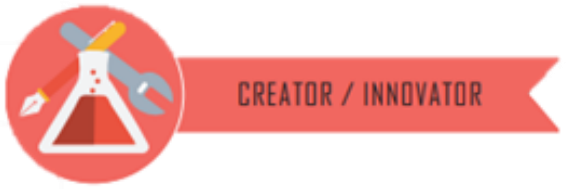
Choosing classes, however, is only part of the obligation students must undertake in school. Habits and qualities of character – studying, preparation, participation, hard work, and, above all, disciplined behavior and a positive attitude – are just as important as the classes you take in achieving a well-rounded high school education.





WHO ARE BIG SPRING GRADUATES?

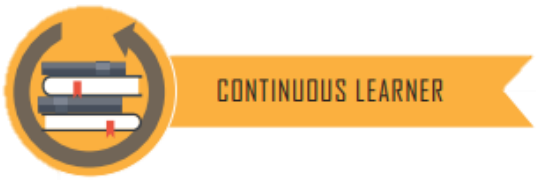
The Profile of a Graduate



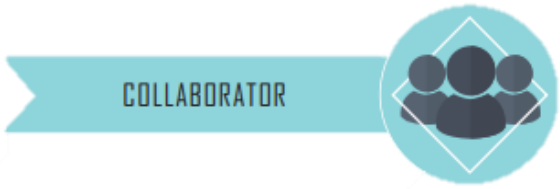
Big Spring graduates take risks, explore multiple possibilities, challenge the status quo, and seek to continually improve processes and products. They deliberate through a design process to solve problems and act on creative ideas.



Big Spring graduates have an awareness of the responsibilities of contributing individuals in a diverse society. They recognize and respect the differences in values that may exist between themselves and people from other countries or from varying social and cultural backgrounds.



Big Spring graduates adapt to varied roles, responsibilities, and contexts, working effectively in a climate of ambiguity and changing priorities. They persist to accomplish difficult tasks and to overcome academic and personal barriers to meet goals.



Big Spring graduates work effectively, respectfully, and with empathy, both giving and receiving feedback, in a team of differing opinions, skills, and strengths. They assume shared responsibility for work focused on solving a problem or creating a product they otherwise would not be able to do alone.



Big Spring graduates speak and write with clarity, listen actively, and read with comprehension. They know their audience, understand the purpose, choose precise language, and when appropriate, incorporate media to enhance ideas.



Big Spring graduates reason effectively in order to identify, define, and solve complex problems and essential questions.

SCHOOL COUNSELING SERVICES

School Board Policy 112

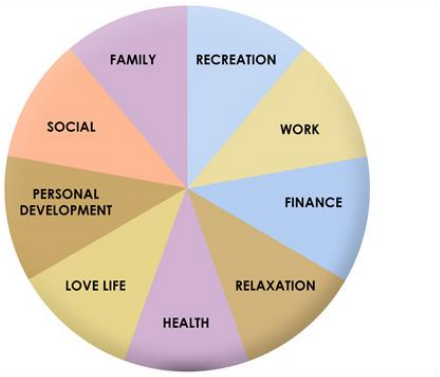
School Counselors at Big Spring High School are available to help students engage successfully in the school setting, to understand their strengths and abilities, and to help them connect these interests with a career path for life after graduation. They can help students define goals and learn about occupational areas. Most important, they wish to help students develop as individuals and to be able to obtain the tools and skills to reach future goals. Students are highly encouraged to meet with their counselors to discuss course selection.

Academic planning is a key component of career planning and as such, Big Spring school counselors encourage students to consider three big questions as they select their courses each year:



Who am I?

What are my unique gifts, talents, and interests?

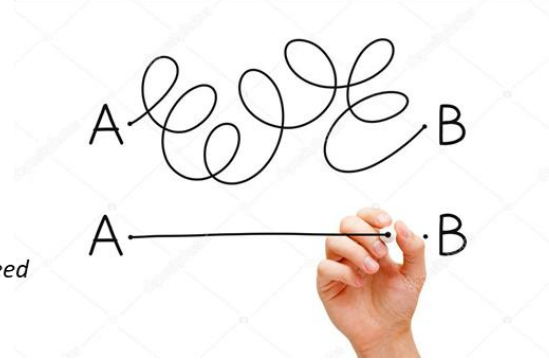


Where am I going?

What kind of lifestyle do I want in my future?

How do I get there?

What training/education, skills, and employment do I need to have the lifestyle I want to have?



School Counselor Contact Information

Class of 2027 and 2030	Dr. Jocelyn Kraus	jkraus@bigspring.k12.pa.us	717-776-2429
Class of 2026	Dr. Adam Oldham	aboldham@bigspring.k12.pa.us	717-776-2428
Class of 2028	Mrs. Kylie Shaul	kshaul@bigspring.k12.pa.us	717-776-2466
School Counseling Office Secretary	Mrs. Kelsey Alleman	kalleman@bigspring.k12.pa.us	717-776-2437
School Counseling Office Secretary	Mrs. Carissa Roberts	croberts@bigspring.k12.pa.us	717-776-2483

GRADUATION REQUIREMENTS

School Board Policy 217

Utilizing Career Pathways, Big Spring High School is dedicated to combining academic excellence and hands-on learning to provide a comprehensive, personalized, and well-rounded college and career program for all of its students. This individualized plan will allow the student to obtain a high school diploma that meets the needs of each student's post-secondary plan while earning the required credits for graduation. See pages 18-21 for the Diploma Tracking Sheets, which are monitored and updated for each student by their school counselor throughout high school.

For the class of 2027, students will take a total of 31 possible credits, and be required to earn 27 credits to graduate.

- 4 credits of English, 3 credits of Math, 3 credits of Science, and 3 credits of Social Studies, 3 additional core credits, 3 Health/PE classes, Career Project Seminar, Personal Finance, and 10 Big Spring Competency Areas (Arts and Humanities, Communications, Digital Literacy, Global Studies, Lab Science, Literature, Numerical Analysis, Project-Based, Research Writing, Wellness). Students must also pass 9.5 elective credits.

For the class of 2028, students will take a total of 30 possible credits, and be required to earn 26 credits to graduate.

- 4 credits of English, 3 credits of Math, 3 credits of Science, and 3 credits of Social Studies, 3 additional core credits, 3 Health/PE classes, Career Project Seminar, Personal Finance, and 5 Big Spring Competency Areas (Arts and Humanities, Communications, Digital Literacy, Project-Based, Teen Health II). Students must also pass 8.5 elective credits.

For the class of 2029, students will take a total of 29 possible credits, and be required to earn 24 credits to graduate.

- 4 credits of English, 3 credits of Math, 3 credits of Science, and 3 credits of Social Studies, 3 additional core credits, 3 Health/PE classes, Career Project Seminar, Personal Finance, and 3 Big Spring Competency Areas (Arts and Humanities, and two Career/Professional Skills classes). Students must also pass 5.5 elective credits.

For the class of 2030 and beyond, students will take a total of 28 possible credits, and be required to earn 24 credits to graduate.

- 4 credits of English, 3 credits of Math, 3 credits of Science, and 3 credits of Social Studies, 3 additional core credits, 3 Health/PE classes, Career Project Seminar, Personal Finance, and 3 Big Spring Competency Areas (Arts and Humanities, and two Career/Professional Skills classes). Students must also pass 5.5 elective credits.

Big Spring High School also offers a **Distinguished Diploma** for students who participate in Honors/AP/Dual Enrollment courses, world language, and community service (see page 22 for more information).

HIGH SCHOOL SCHEDULING

Big Spring High School operates on a **Modified Traditional Schedule**. On **traditional days**, each of the seven periods in a day are 52 minutes long (43 minutes long on Fridays), with student lunches taking place during Period 4 (30 minutes before or after instruction). Two days each week are **intensive days**, which allow for one day of an extended block period for each class every week. Period 7 does not get an extended block period, but meets every day of the week for 52 minutes (43 on Fridays).

On intensive days, students have access to four 30-minute flex periods which can be used for additional support with teachers, participation in clubs and activities, and as a study hall. On both intensive days, students will eat lunch during a flex period, and on one intensive day, students will meet with their Advisement groups during Flex D.

<table>
<tr><th>MONDAY (DAY A)</th><th>TUESDAY (DAY A)</th><th>WEDNESDAY (DAY B)</th><th>THURSDAY (DAY C)</th><th>FRIDAY (DAY D)</th></tr>
<tr><td>Homeroom</td><td>Homeroom</td><td>Homeroom</td><td>Homeroom</td><td>Homeroom</td></tr>
<tr><td>Period 1</td><td>Period 1</td><td rowspan="2">Period 1</td><td rowspan="2">Period 2</td><td>Period 1</td></tr>
<tr><td>Period 2</td><td>Period 2</td><td>Period 2</td></tr>
<tr><td>Period 3</td><td>Period 3</td><td rowspan="2">Period 3</td><td rowspan="2">Period 4</td><td>Period 3</td></tr>
<tr><td rowspan="2">Period 4
(Lunch → Class)
(Class → Lunch)</td><td rowspan="2">Period 4
(Lunch → Class)
(Class → Lunch)</td><td>Flex A</td></tr>
<tr><td>3 Flex Periods (A, B, C)
(Lunch in B or C)</td><td>3 Flex Periods (A, B, C)
(Lunch in B or C)</td><td>Period 4
(Lunch → Class)
(Class → Lunch)</td></tr>
<tr><td>Period 5</td><td>Period 5</td><td rowspan="2">Period 5</td><td rowspan="2">Period 6</td><td>Period 5</td></tr>
<tr><td>Period 6</td><td>Period 6</td><td>Period 6</td></tr>
<tr><td>Period 7</td><td>Period 7</td><td>Period 7</td><td>Period 7</td><td>Period 7</td></tr>
<tr><td colspan="2">No flex periods on Day A or B</td><td>Flex D</td><td>Advisement</td><td>Flex D</td></tr>
</table>

Students are encouraged to speak with their School Counselor about their plans of study. It cannot be over emphasized that this process requires **collaboration** of all parties, with the primary responsibility falling on the student to help create the most appropriate schedule.

Students will input their course selection requests using their Aspen portal. Each student will meet individually with their school counselor each year in the spring during the scheduling process to ensure that students are taking courses that align with their career plans, as well as making sure students meet all requirements for graduation.

SCHEDULE CHANGES

Students desiring to change their schedule should contact their counselor prior to the beginning of the course. Course changes once a course has begun will require principal approval.

1. Schedules will not be changed after the third day of the start of a course.
2. Schedules will be changed if the student no longer meets the prerequisite for a scheduled class.
3. Schedules may be changed if a student has failed a required class and if the following conditions are met:
   - The student schedules an appointment with his/her counselor.
   - There is "space" available in the desired course. Classes will not be over-allocated to accommodate a student who has failed.
   - There is an available class with a teacher other than the one the student has "failed".
4. Schedules may be changed based on teacher recommendations that a student's placement due to their ability to successfully complete the course or if the teacher feels the student belongs in a higher-level course. The following procedures must be followed:
   - The teacher must contact the student's counselor to review the student's educational plan and the effects which would result from any change.
   - The student and parent will be contacted to discuss the recommended change, and if both agree, the change will be made.
5. Schedules may be changed if a post high school program requires a certain course for admission or placement.
6. Students enrolled at Cumberland-Perry CTC are considered to be enrolled in a yearlong course. Credit will be awarded at the conclusion of the course. As in all classes, partial credit is not awarded.

HIGH SCHOOL CREDIT EARNED IN MIDDLE SCHOOL

School Board Policy 217

Credits earned at the Big Spring Middle School in courses listed in the High School Course Selection Guide (Algebra I, French I, and Spanish I) will be transferred onto student transcripts. The grade associated with the course at the middle school will not be factored into Grade Point Average (GPA) or class rank. Middle school courses cannot be used to satisfy high school competency requirements. Students successfully completing one of these courses will be able to move onto the next course in the sequence at the high school, and the credit will count as an elective toward their cumulative credit total toward graduation.

COURSE OVERRIDE PROCESS

In order to be successful in specific courses, students must possess a knowledge background and ability level. To aid in the student's success and keep frustration level to a minimum, teachers make recommendations regarding certain sequential courses for all students.

The parent has the right to override the teacher's recommendation. To do this, a parent must obtain and sign a course override form from the counseling office to acknowledge the request for an override.

Signing the form will grant permission for the course to be taken regardless of the recommendation, if there are available seats in the selected course. Please be aware that once this course has begun, the student will be expected to remain in this course for the duration regardless of the degree of success or failure he/she may experience. Schedule changes should occur prior to the beginning of the course. Course changes once a course has begun will require principal approval.

GRADING SYSTEM

Grades earned in any course shall reflect student fulfillment of academic and other requirements as may be established by the District. Grading is based on straight percentage from 0 to 100 percent. To earn credit for any course, a student is obliged to:

1. Fulfill the established course requirements.
2. Meet other standards prescribed for the course.

BIG SPRING HS GRADING SCALE *GPA is reported on a 4.0 scale*		
A	90-100%	4 Quality Points
B	80-89%	3 Quality Points
C	70-79%	2 Quality Points
D	60-69%	1 Quality Point
F	Below 60%	0 Quality Points
I	Incomplete	
P	Pass	
F	Fail	

CUMBERLAND PERRY AREA CAREER AND TECHNICAL CENTER GRADING SCALE*		
A	93-100%	4 Quality Points
B	85-92%	3 Quality Points
C	77-84%	2 Quality Points
D	70-76%	1 Quality Point
F	Below 70%	0 Quality Points

*Students taking classes at CPACTC will earn grades in their shop and social studies classes based on this scale

MARKING PERIOD AND FINAL EXAM PERCENTAGES OF FINAL GRADE			
	Full Year Courses	Semester 1 Courses	Semester 2 Courses
Quarter 1 (Q1)	20%	40%	
Quarter 2 (Q2)	20%	40%	
Quarter 3 (Q3)	20%		40%
Quarter 4 (Q4)	20%		40%
Final Exam (E1)	20%	20%	20%
Final Grade (F1)	100%	100%	100%

BIG SPRING HONOR ROLL

In order to be recognized for the Big Spring High School Honor Roll, the following criteria will be used:

HONOR ROLL	DISTINGUISHED HONOR ROLL
Student earns at least Bs in all courses.	Student earns As in all courses.

WEIGHTED COURSES

Big Spring High School offers academic courses as Advanced Placement (AP), Dual Enrollment/College, and Weighted Internships in the classroom that provide challenging educational opportunities requiring in-depth research, writing, and advanced study skills. Students are recognized for meeting the academic challenges of these courses with grade weighting.

The following quality point weighting system which utilizes letter grades to report student achievement will be utilized. Final letter grades for courses will be assigned quality point values:

Quality Points Earned	A	B	C	D	F
Academic and Honors Courses	4	3	2	1	0
AP/Dual Enrollment/Weighted Internship Courses	4.5	3.5	2.5	1.5	0

DUAL ENROLLMENT

High School juniors and seniors who meet admissions criteria may take college courses sponsored by Harrisburg Area Community College (HACC) and/or Shippensburg University. When the course is completed, a HACC/SHIP transcript records the class, credits and grades earned. Dual enrollment courses are eligible to be considered for transfer to other post-secondary colleges/universities or towards a HACC/SHIP credit bearing degree program. Students may be approved to take dual enrollment courses with other colleges/universities if they have an acceptance letter to that college/university.

These courses will be added to a student's high school transcript and can be counted toward graduation requirements. Pre-approved summer college experiences can also be added to a student's high school transcript, but will not count toward their GPA. Students are limited to enrolling in two (2) dual enrollment courses per semester. Students are responsible for their own transportation.

Big Spring High School also participates in a College in the High School relationship with Lackawanna College. Students who choose to enroll with Lackawanna College can earn 3-4 college credits for earning a C or better in eligible Big Spring High School classes.

ADVANCED PLACEMENT (AP) COURSES

For students interested in earning college credit while in high school, Big Spring currently offers fourteen AP courses to prepare students for AP exams, which can earn college credits for successful completion. Students who plan to take any AP courses are advised to check with their potential colleges of choice regarding acceptance of AP exam scores for credit.

AP US Government and Politics
AP World History
AP US History
AP Psychology

AP Seminar
AP English Literature and Composition
AP English Language and Composition

AP Studio Art
AP Music Theory

AP Biology
AP Chemistry
AP Environmental Science
AP Physics I
AP Physics II
AP Physics C – Mechanics

AP Calculus AB
AP Calculus BC
AP Statistics

CALCULATING GRADE POINT AVERAGE (GPA)

School Board Policy 214

The cumulative measure of a student's academic achievement is their Grade Point Average (GPA). A student's GPA only updates each time they complete a course, when credit is earned. To calculate GPA, final course grades are converted into Quality Points. Class rank is determined using cumulative GPA. Weighted classes receive additional Quality Points. This formula is demonstrated below.

STEP ONE – TRANSLATE FINAL COURSE GRADES INTO QUALITY POINT UNITS					
Non-Weighted Courses			Weighted Courses		
90-100%	A	4.0 Quality Points	90-100%	A	4.5 Quality Points
80-89%	B	3.0 Quality Points	80-89%	B	3.5 Quality Points
70-79%	C	2.0 Quality Points	70-79%	C	2.5 Quality Points
60-69%	D	1.0 Quality Points	60-69%	D	1.5 Quality Points
<60%	F	0 Quality Points	<60%	F	0 Quality Points

STEP TWO – CALCULATE QUALITY POINTS PER CLASS
(Course Quality Points ÷ Credit Value of Course)

STEP THREE – CALCULATE GPA
(Sum of Quality Points ÷ Sum of Total Credits) = GPA

SAMPLE STUDENT					
Course Name	Course Grade	Letter Grade	Credit Value	Quality Points	Total Quality Points
Concert Band	94	A	1	4.0	4.0
Earth and Space Science	96	A	1	4.0	4.0
AP World History	89	B	1	3.5	3.5
Honors Physics I	90	A	1	4.0	4.0
Driver's Ed/PE	100	A	0.5	4.0	2.0
Career Project Seminar	92	A	0.5	4.0	2.0
AP English Literature	97	A	1	4.5	4.5
Honors Spanish IV	93	A	1	4.0	4.0
Honors Pre-Calculus	79	C	1	2.0	2.0
		Total Credits	8	Total Quality Points	30

Total Quality Points	Total Credits	GPA
30	8	3.75

GRADE LEVEL PROMOTION

School Board Policy 215

Each year at the high school, students schedule 7 credits that they will earn if they successfully pass all of their classes. Students will be promoted each year of high school and be "retained" as 5th year seniors (if necessary), rather than be retained based on credit deficiency each year. The credit total required to earn a Big Spring diploma is outlined on page 8.

The following chart shows the minimum credits students must earn each year to be considered on track to graduate in 4 years at the Big Spring High School:

	Class of 2027	Class of 2028	Class of 2029	Class of 2030 and Beyond
End of Grade 9	4	4	3	3
End of Grade 10	12	12	10	10
End of Grade 11	20	19	17	17
Required to Graduate	27	26	24	24

SMART FUTURES

Electronic Career Portfolios (22 Pa. Code 339)

Smart Futures is a college and career readiness tool that provides students with college planning and career assessment tools. Smart Future's web-based software provides students with a variety of features, including college research and matching tools, career assessment and personality tests, and surveys to help students connect what they are doing in school to what they would like to do once they complete their education.

Every student receives a Smart Futures account when they enter Kindergarten. Students are assigned tasks to complete throughout each school year to help them learn about the world of work and to develop their post-secondary plans. These activities are housed in each student's Smart Futures account, which serves as an electronic career portfolio.

Students who choose to apply to colleges and universities their senior year will use their Naviance portal to request transcripts and letters of recommendation as well. Students who need to use the Common Application to apply to college(s) will match their Naviance account to their Common Application account for a streamlined college application process.

In lieu of taking the Career Project Seminar class, students participating in CPACTC must complete all required Smart Futures activities to satisfy graduation requirements. This must be completed by the end of junior year.

STATE HIGH SCHOOL GRADUATION PATHWAYS

Act 158 of 2018 (Act 158), which was signed into law by Governor Tom Wolf on October 24, 2018, shifts Pennsylvania's reliance on high stakes testing as a graduation requirement to provide alternatives for high school students to demonstrate readiness for postsecondary success. This legislation expands the options for students to demonstrate postsecondary readiness through four additional pathways that more fully illustrate college, career, and community readiness.

Therefore, in addition to earning sufficient credits and meeting all competency areas, **students graduating as part of the Class of 2023 and beyond** must satisfy one of the five state graduation requirement pathways as outlined below in order to earn a diploma from the Big Spring High School:

PENNSYLVANIA STATE GRADUATION REQUIREMENT PATHWAYS

Keystone Proficiency Pathway	Keystone Composite Pathway	Career and Technical Education Pathway	Alternative Assessment Pathway	Evidence Based Pathway
• Student passes all three Keystone exams with a score of proficiency or advanced	• Student passes at least ONE Keystone exam with proficiency or advanced **AND** • Student attains a composite score of at least 4452	• Student passes the Keystone-related courses **AND** • Student passes their NOCTI **OR** • Student demonstrates "a high likelihood of success to pass their NOCTI"	• Student passes the Keystone-related courses **AND** • One of the following: ○ Attainment of an "Established Score" on an approved alternative assessment ▪ ASVAB (31) ▪ PSAT (970) ▪ SAT (1010) ▪ ACT (31) ○ Gold Level on the ACT WorkKeys Assessment ○ Attainment of an "Established Score" on an AP/IB exam in academic content area associated with the Keystone exam a student did not pass ○ Successful completion of concurrent enrollment course in academic content area associated with the Keystone exam a student did not pass ○ Successful completion of a pre-apprenticeship program ○ Acceptance into an accredited 4-year nonprofit institution of higher education and evidence of the ability to enroll in college level work	• Student passes the Keystone-related courses **AND** • Three Pieces of Evidence • One of the following: ○ Attainment of an "Established Score" on an ACT WorkKeys assessment, an SAT Subject Test, or AP/IB Exam ○ Acceptance into "nonprofit, not 4-year college, postsecondary institution" and evidence of the ability to enroll in college level work ○ Attainment of an industry recognized credential ○ Successful completion of a dual enrollment postsecondary course AND • Two of the following: ○ Complete a service learning project ○ Attain a score of proficient or advanced on a Keystone exam ○ Attain a letter guaranteeing full-time employment ○ Certificate demonstrating completion of an internship or a cooperative education program ○ Compliance with the NCAA's core courses for college-bound student athletes with a minimum GPA of 2.0

Keystone Exams will continue as the statewide assessment that Pennsylvania uses to comply with accountability requirements set forth in the federal Every Student Succeeds Act (ESSA). Although a student may not be required to achieve proficiency on the Keystone Exams in order to graduate, students are required to take the Keystone Exams for purposes of federal accountability.

All students will attempt the three Keystone exams, Algebra I, Literature, and Biology, at the conclusion of the semester in which they take the course.

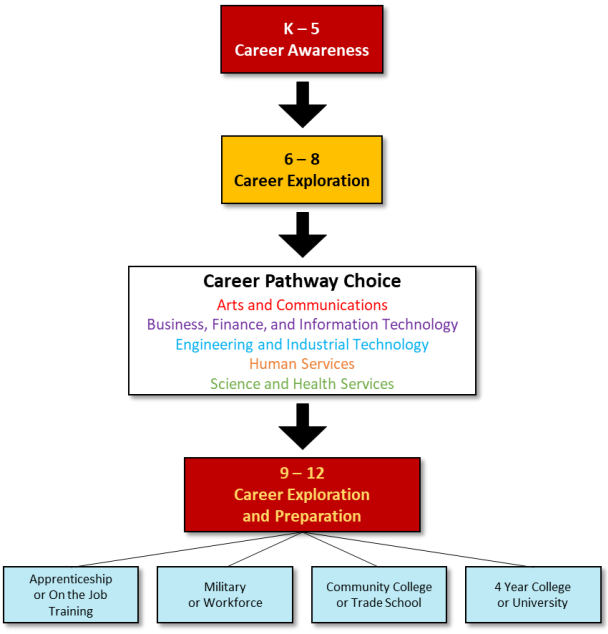
BIG SPRING CAREER PATHWAYS

To support the career development of our students, the Big Spring School district delivers career awareness, exploration, and preparation activities K-12. As a culminating activity of their K-8 career development, students identify a **career pathway** in 8th grade to support their high school course selection process. Career pathways help students connect course offerings to their personalized areas of interest.

Each of the five (5) career clusters represent major sectors/industries of the workforce and economy. In addition to courses offered in our building, program offerings through the Cumberland-Perry Area Career and Technical School (CPACTC) are also available to students in each of the career pathways.

Students are **not** obligated to take courses only in a specific career pathway, however as all students have many choices and options for how they complete courses at the Big Spring High School, it is advised that they use their scheduling effectively to explore potential career interests and/or to develop skills and background knowledge necessary to an intended career field.

BIG SPRING CAREER PATHWAY OPTIONS				
ARTS AND COMMUNICATIONS	**BUSINESS, FINANCE, AND INFORMATION TECHNOLOGY**	**ENGINEERING AND INDUSTRIAL TECHNOLOGY**	**HUMAN SERVICES**	**SCIENCES AND HEALTH SERVICES**
Designed to cultivate students' awareness, interpretation, application and production of visual, verbal and written work.	Designed to prepare students for careers in the world of business, finance and information technology.	Designed to cultivate students' interests, awareness and applications areas related to technologies necessary to design, develop, install or maintain physical systems.	Designed to cultivate students' interests, skills and experience for employment in careers related to human and family needs.	Designed to cultivate students' interests in the life, physical and behavioral sciences. In addition, the planning, managing and providing of therapeutic services, diagnostic services, health information and biochemistry research development.
FOCUS AREAS				
•Performing Arts •Visual Arts •Publishing Arts	•Marketing, Sales, and Service •Finance •Information Technology •Business Management	•Engineering and Engineering Technology •Construction and Architecture •Manufacturing •Transportation, Distribution, and Logistics	•Counseling and Personal Care •Education •Law, Public Safety, and Government •Hospitality and Tourism	•Health Science •Agriculture, Food, and Natural Resources •Science, Technology, and Math



On the Job Training (OTJ)	Employer-designed training established for the worker to gain the necessary work skills while he/she is getting paid on the job. Usually these will last weeks to months
Diploma/Certificate Programs	Short-term programs of 6 months to 1 year to gain specific skills to gain employment at the entry level. These can be found at technical schools, community colleges, junior college, and even some universities.
Military Training	All branches of the military have skilled training for 3 years or more. Students can use their GI Bill to pay for college after their discharge or serve for 20 years until retirement with full benefits.
Apprenticeship Programs	Industry-based program training works on the job and in a classroom setting as well. Upon completion the worker will gain journeyman status in the specific industry (3-4 years in length). Apprentices are paid as they go to school.
Associate's Degree Programs	These are terminal 2-year degrees allowing the person to gain entry-level employment in a specific career. Many times these workers will begin employment after 2 years of school then go on for future degrees at the employer's expense. Typical locations are community and junior colleges. Some technical schools and universities have associate degree programs.
Bachelor's Degree Programs	These are four-year degrees with a combination of general education course work and specific major. They can be liberal arts colleges, private colleges, public colleges, or universities.
Graduate/Professional Degree Programs	These are the post-graduate fields such as law, medicine, and Ph. D or other professional fields, typically 1 to 5 years beyond a bachelor's degree.

LATE ARRIVAL/EARLY DISMISSAL (SENIOR PRIVILEGE)

Students who wish to participate in Senior Privilege Late Arrival/Early Dismissal must submit a signed permission form prior to the start of the school year. Late Arrival takes the place of Period 1, and Early Dismissal takes the place of Period 7. Senior students are permitted to arrive late OR leave early under the following criteria for eligibility:

1. Students must take and be passing the required number of courses set for graduation according to BSSD Board Policy. Seniors that have not taken or are not passing the required number of courses to graduate will NOT be eligible or will be removed from the program and enrolled into a regular full-day schedule of classes.
2. Student has satisfied the state graduation requirements regarding Act 158 of 2018.
3. Parents must give written permission on an Out of Building Permission form.
4. Transportation to and from school is the responsibility of the student.
5. Students must enter and sign-in at the office or sign-out and leave at the office.
6. Students who arrive early must report to the library. Students who choose to remain at school after signing-out must indicate on the sign-out form and report to the library.
7. Students are not permitted to loiter in the parking lot or any other area of the school.
8. Students are responsible for reporting to school at the appropriate time in the event the Bell Schedule is adjusted for weather conditions, testing, etc. Failure to sign-in at the appropriate time will result in an unexcused tardy to school.

SUMMER SCHOOL/FAILED COURSES/CREDIT RECOVERY

School Board Policy 124

If a student fails a course required for graduation, the course must be completed before a student can participate in the graduation ceremony and/or receive their diploma. Big Spring School District offers credit recovery courses for students to complete during the summer. The courses offered in summer school will be based, in part, on demand, availability and at the discretion of the administration. Students may not take more than two credits during summer school.

If a student does not make an attempt to recover their missing credits, it may be necessary for that student to return for an additional year of schooling. If a student returns for an additional year to make up failed courses, that student will attend only those classes. Please understand that if a student retakes a course during the school year, the same teacher may be assigned.

BIG SPRING HIGH SCHOOL

DIPLOMA TRACKING SHEET

Class of 2027

Student Name

GRADES 9 AND 10		
2 English Courses		
2 Social Studies Courses		
2 Science Courses		
2 Math Courses		
2 PE/Health Courses		

GRADES 11 AND 12		
8 Core Course Credits		

GRADUATION REQUIRED COURSES			
Career Project Seminar		Personal Finance	

COMPETENCIES	
Arts and Humanities*	
Communications*	
Digital Literacy*	
Global Studies	
Lab Science	
Literature	
Numerical Analysis	
Project Based*	
Research Writing	
Wellness	

EARNED CREDITS	
9th	
10th	
11th	
12th	
Total	

DISTINGUISHED DIPLOMA	
LANG 1	
LANG 2	
AP 1	
AP 2	
AP 3	
HON 1	
HON 2	
HON 3	
HON 4	
HON 5	

NOTES	

BIG SPRING HIGH SCHOOL

DIPLOMA TRACKING SHEET

Class of 2028

Student Name

GRADES 9 AND 10		
2 English Courses		
2 Social Studies Courses		
2 Science Courses		
2 Math Courses		
2 PE/Health Courses		

GRADES 11 AND 12 (Floating Core 9-12)	
English:	Social Studies:
English:	Floating Core:
Math:	Floating Core:
Science:	Floating Core:

GRADUATION REQUIRED COURSES			
Career Project Seminar		Personal Finance	

COMPETENCIES	
Arts and Humanities*	
Communications*	
Digital Literacy*/ Career Professional	
Project Based* / Career Professional	
Teen Health II	

EARNED CREDITS	
9th	
10th	
11th	
12th	

DISTINGUISHED DIPLOMA	
LANG 1	
LANG 2	
AP 1	
AP 2	
AP 3	
Hon 1	
Hon 3	
Hon 3	
Hon 4	

NOTES	

BIG SPRING HIGH SCHOOL

DIPLOMA TRACKING SHEET

Student Name

CORE COURSES (13 CREDITS)			
4 ENGLISH	3 MATH	3 SCIENCE	3 SOCIAL STUDIES

FLOATING CORE COURSES (3 CREDITS)		
These include math, science, social studies, and world language courses.		

CAREER DEVELOPMENT	
	Career Project Seminar
	Personal Finance
HEALTH/PHYSICAL EDUCATION	
	Teen Health I
	Teen Health II
	Health/PE Elective
COMPETENCIES	
Arts and Humanities	
Career/Professional Skills	
Career/Professional Skills	

DISTINGUISHED DIPLOMA	
Language 1	
Language 2	
AP 1	
AP 2	
AP 3	
Honors 1	
Honors 2	
Honors 3	
	3.5+ Cumulative GPA
	150 Citizenship Service Hours

ELECTIVE CREDITS (4 CREDITS)	

TOTAL CREDITS EARNED			
9th	10th	11th	12th

BIG SPRING HIGH SCHOOL

DIPLOMA TRACKING SHEET

CPACTC

Student Name

CORE COURSES (13 CREDITS)			
4 ENGLISH	3 MATH	3 SCIENCE	3 SOCIAL STUDIES

CAREER DEVELOPMENT	
	Career Artifacts (8 Smart Futures)
	Personal Finance
HEALTH/PHYSICAL EDUCATION	
	Teen Health/PE
	Health/PE

COMPETENCIES	
Arts and Humanities	
Year 1 CPACTC Shop	
Year 2 CPACTC Shop	

EARNED CREDITS	
9th Grade	
10th Grade	
11th Grade	
12th Grade	
Total	

SHOP/ ELECTIVE CREDITS (4 CREDITS)	

NOTES

BIG SPRING HIGH SCHOOL

DISTINGUISHED DIPLOMA

The Distinguished Diploma is ideal for students intending to pursue post-secondary education. This option is designed to build a strong college-ready transcript. Courses toward categories can be achieved at any point between grades 9 and 12.

BIG SPRING DISTINGUISHED DIPLOMA

Two Years of World Language

Students must complete at least two years of the same language (Spanish or French) in the high school level.
Language taken at the MS does not count toward this requirement

Minimum 3.5 GPA

3 AP/College Courses

3 Additional Honors/AP/College Courses

Citizenship Hours

Students must earn 150 total hours, with a maximum of 75 hours in each of these three categories

SCHOOL	COMMUNITY	CAREER
Any after-school activity can count toward this category. One season of a school sport/music/theater will count for 75 hours. *Examples: Athletics, Marching Band, Musical, Theater*	Any volunteer work outside of school (can include required club service hours done outside of school). *Examples: Youth Group Work, Scouts, Mission Trips, Required Service Hours for Clubs*	Work experience connected to the career field a student plans to pursue after graduation can count toward this category. *Example: Pursuing a career in accounting while working at Cohick and Associates* *NOT an Example: Pursuing a career in veterinary science while working at Sheetz*

Tracking your citizenship hours is your responsibility as a student, however your Advisor can be a helpful resource in this process. All hours must be logged using the Citizenship Hours Tracking Forms, which can be turned into your Advisor for safekeeping until your senior year. Once you have achieved all 150 hours, you will submit these tracking forms to your school counselor, with a final deadline of April 30th of your senior year.

BIG SPRING HIGH SCHOOL
CITIZENSHIP HOURS TRACKING FORM

Student Name	Grade Level	Advisor Name

Activity Date	Brief Description of the Activity

Hours Participated		
Citizenship Hours Category	School	☐
	Community	☐
	Career	☐

Student Signature	
Activity Supervisor Signature	

BIG SPRING HIGH SCHOOL
CITIZENSHIP HOURS TRACKING FORM

Student Name	Grade Level	Advisor Name

Activity Date	Brief Description of the Activity

Hours Participated		
Citizenship Hours Category	School	☐
	Community	☐
	Career	☐

Student Signature	
Activity Supervisor Signature	

NCAA INFORMATION FOR STUDENT ATHLETES

The NCAA Eligibility Center certifies the **(1) academic** and **(2) amateur credentials** of all students who want to play sports in an NCAA Division I or II institution as freshmen. In order to practice, play and receive an athletics scholarship, students need to meet certain academic benchmarks. An additional certification process exists to make sure the student is still an amateur, necessary in order for the student to compete.

The following requirements must be met in order for a student to be able to practice, play and receive a scholarship at an NCAA Division I or II college or university. **NOTE: NOT ALL BIG SPRING COURSES ARE APPROVED COURSES BY THE NCAA.**

Division I:

1. Graduate from high school;
2. Complete a minimum of 16 core courses;
3. Present the required grade-point average (GPA);
4. Present a qualifying test score on either the ACT or SAT
5. Complete the amateurism questionnaire and request final amateurism certification.

Division I Core-Course Breakdown (Courses MUST appear on your list of Approved Core Courses)

4 years of English
3 years of math (Algebra I or higher)
2 years of natural or physical science (including one year of a lab science)
1 extra year of English, math, or natural or physical science
2 years of social science
4 years of extra core courses from any category above or world language

Division II:

1. Graduate from high school;
2. Complete a minimum of 16 core courses;
3. Present a minimum 2.000 core-course grade-point average (GPA);
4. Present a minimum 820 SAT score (critical reading & math only) or 68 sum ACT score qualifying test score on either the ACT or SAT
5. Complete the amateurism questionnaire and request final amateurism certification.

Division II Core-Course Breakdown (Courses MUST appear on your list of Approved Core Courses)

3 years of English
2 years of math (Algebra I or higher)
2 years of natural or physical science (including one year of a lab science)
2 years of social science
3 additional years of English, math, or natural or physical science
4 years of extra core courses from any category above or world language

NCAA CERTIFICATION PROCESS FOR STUDENTS

1. In your SOPHOMORE year, log onto www.eligibilitycenter.org to register with the NCAA as a student athlete. This site will remind you of important tasks to complete over the course of your high school studies.
2. In your JUNIOR year, register to take the SATs/ACTs and use the NCAA Eligibility Center code "9999" as a score recipient to have your results sent to the NCAA.
3. At the END of your JUNIOR year, send an official transcript to the NCAA Eligibility Center using Naviance.
4. At the END of your SENIOR year, send an official transcript to the NCAA Eligibility Center using Naviance indicating you have graduated from high school successfully.

BIG SPRING NCAA APPROVED COURSE LIST

Not all high school classes count as NCAA core courses. Only classes in English, math (Algebra 1 or higher), natural or physical science, social science, foreign language, comparative religion or philosophy may be approved as NCAA core courses.

You can earn credit for a core course only once. If you take a course that repeats the content of another core course, you earn credit for only one of these courses and the higher grade counts toward your core-course GPA.

Remedial classes, credit recovery, and classes completed through credit-by-exam are not considered NCAA core courses.

ENGLISH	MATH	NATURAL/PHYSICAL SCIENCE	SOCIAL STUDIES	ADDITIONAL CORE*
English I English II Academic English II Honors College Prep English Honors English Veritas College Prep Writing College Prep Literature AP English Literature AP English Language AP Seminar Creative Writing (0.5) Public Speaking (0.5)	Algebra I Algebra II Honors Algebra II Geometry Honors Geometry Pre-Calculus Honors Pre-Calculus Honors Trigonometry AP Calculus AB AP Calculus BC Statistics AP Statistics Comp Sci Principles (0.5) JAVA (0.5)	Biology AP Biology Chemistry AP Chemistry Earth and Space Science Environmental Science AP Environmental Science AP Physics I AP Physics II AP Physics C Anatomy and Physiology Marine and Ocean Studies Intro to Forensics (0.5)	American Studies Government AP US Govt and Politics World Studies AP World History AP Psychology Sociology Current Events (0.5) Economics (0.5) Geography (0.5) PA History (0.5) Military History I (0.5) Military History II Law I (0.5) Law II	Spanish I Spanish II Spanish III Honors Spanish IV Honors Spanish V French I French II French III Honors French IV

*Additional core courses also include any course listed in the table above

BIG SPRING HIGH SCHOOL

NCAA DIVISION I TRACKING SHEET

Students must complete 16 core courses to be eligible to compete in NCAA sports during their first year at a Division I school

Student Name		Graduating Year		Date Sheet Completed	

		Name of Big Spring Course	Grade	Quality Points
4 Years of English	English 1			
	English 2			
	English 3			
	English 4			
2 Years of Math	Math 1			
	Math 2			
	Math 3			
2 Years of Science (Natural or Physical)	Science 1			
	Science 2			
2 Years of Social Studies	Social Studies 1			
	Social Studies 2			

1 Additional Year of English, Math, or Science	Additional 1			

		Name of Big Spring Course	Grade	Quality Points
4 Years Total of Additional English, Math, Science, Social Studies, or World Languages	Additional 1			
	Additional 2			
	Additional 3			
	Additional 4			

To calculate NCAA GPA, use the following conversion for course grades (D1 Core GPA must be 2.3 or higher)			
A = 4 points	B = 3 points	C = 2 points	D = 1 point

Total Quality Points	
Total Core Course Credits (16 total by end of senior year)	
NCAA DIVISION I NCAA GPA	

BIG SPRING HIGH SCHOOL

NCAA DIVISION II TRACKING SHEET

Students must complete 16 core courses to be eligible to compete in NCAA sports during their first year at a Division II school

Student Name		Graduating Year		Date Sheet Completed	

		Name of Big Spring Course	Grade	Quality Points
3 Years of English	English 1			
	English 2			
	English 3			
2 Years of Math	Math 1			
	Math 2			
2 Years of Science (Natural or Physical)	Science 1			
	Science 2			
2 Years of Social Studies	Social Studies 1			
	Social Studies 2			

		Name of Big Spring Course	Grade	Quality Points
3 Years Total of Additional English, Math, or Science	Additional 1			
	Additional 2			
	Additional 3			

		Name of Big Spring Course	Grade	Quality Points
4 Years Total of Additional English, Math, Science, Social Studies, or World Languages	Additional 1			
	Additional 2			
	Additional 3			
	Additional 4			

To calculate NCAA GPA, use the following conversion for course grades (D2 Core GPA must be 2.2 or higher)			
A = 4 points	B = 3 points	C = 2 points	D = 1 point

Total Quality Points	
Total Core Course Credits (16 total by end of senior year)	
NCAA DIVISION II NCAA GPA	



BIG SPRING HIGH SCHOOL COURSE DESCRIPTIONS

AGRICULTURE AND TECHNOLOGY EDUCATION
ART
BUSINESS, FINANCE, AND INFORMATION TECHNOLOGY
COMPUTER SCIENCE
ENGLISH
HEALTH AND PHYSICAL EDUCATION
LANGUAGES FOR THE 21ST CENTURY
MATHEMATICS
MUSIC
SCIENCE
SOCIAL STUDIES
CUMBERLAND PERRY AREA CAREER AND TECHNOLOGY CENTER

AGRICULTURE AND TECHNOLOGY EDUCATION

AGRICULTURE CLASSES

7000	Small Animal Science		Grades: 9-12
Credits:	0.5	Career Pathways:	SH
Prerequisites:	None	Competencies:	Career/Professional Skills
Description:	This course is designed to introduce students to the use, breeds, anatomy, selection, breeding, nutrition and handling of small animals as pets. Units covered in this course include: History of Domesticated Animals, Classification Systems, Dogs, Cats, Ornamental Fish, and Exotic Animals. This will be a science-oriented class and students are expected to analyze the purpose behind the use and development of animals. This course serves as an introduction to the animal sciences and is designed for the student who wishes to learn more about taking care of their own companion animals and the student who is interested in studying animals in the future for a career.		

7010	Animal Science		Grades: 10-12
Credits:	0.5	Career Pathways:	SH
Prerequisites:	Biology recommended	Competencies:	Career/Professional Skills
Description:	This course will expose students to the world of agriculture, animal science, and career options. Students participating in the Animal Science course will have experiences in various animal science concepts with exciting hands-on activities, projects, and problems. Students' experiences will involve the study of animal anatomy, physiology, behavior, nutrition, reproduction, health, selection, and marketing. For example, students will acquire skills in meeting the nutritional needs of animals while developing balanced, economical rations. Throughout the course, students will consider the perceptions and preferences of individuals within local, regional, and world markets. This course requires participation in laboratory exercises and anatomical dissections for the purpose of learning and applying knowledge.		

7020	Veterinary Science		Grades: 11-12
Credits:	0.5	Career Pathways:	SH
Prerequisites:	Biology, Animal Science	Competencies:	Career/Professional Skills
Description:	This course is designed to expose students to provide an overview of basic practices and skills used in veterinary medicine. Students will review livestock, physiology, ruminant microbiology, and small animal care, while learning the skills of dissection, injections, medication dosage, first aid care, routine physical exams and surgical techniques. Industry leadership and business applications will also be included.		
Special Note:	**This course will have a required lab fee of $5.00.**		

7030	Welding		Grades: 10-12
Credits:	0.5	Career Pathways:	EIT
Prerequisites:	None	Competencies:	Career/Professional Skills
Description:	This is an introductory study of principles and safe practices in agricultural welding. This course focuses on oxyacetylene cutting and welding, electric arc welding, MIG welding, and Plasma Arc Cutting. Students in this course are required to pass all safety tests with 100% before working in the shop (multiple attempts are permitted). There is equal time spent in theory and practical instruction in this class. Students may be permitted to design and construct their own projects with provided materials. Attendance and a positive attitude are critical for success in this course.		
Special Note:	**This course will have a required lab fee of $10.00.**		

7040	Metal Fabrication		Grades: 11-12
Credits:	0.5	Career Pathways:	EIT, SH
Prerequisites:	Welding	Competencies:	Career/Professional Skills
Description:	This is the final course in metalworking technology. Students at this level are expected to apply techniques learned in Welding. Students in the course will continue to advance in welding and metalworking techniques, learning new processes, using machines and power tools. Students can design a project or select one from an assortment of options. Each project includes: completed working drawings, list of materials, fabrication procedures, and bill of materials. Students will pay for their material before work can begin.		
Special Note:	**This course will only be offered on odd graduation years (2027, 2029, etc.)**		

7040	Do It Yourself Home Projects (Electrical, Plumbing, and ATV)		Grades: 9-12
Credits:	0.5	Career Pathways:	EIT, SH
Prerequisites:	None	Competencies:	Career/Professional Skills
Description:	It is important for all students to learn how to conserve electricity while saving money, understand safe practices while riding an ATV, and install/repair plumbing and electricity into their home. These activities can help a student to save money not only now, but also when they become a homeowner. The students will focus on the study of the previously stated items, and create projects or complete laboratory practices that will help them to understand these components.		
Special Note:	**This course will have a required lab fee of $5.00.**		

7050	Essential Home Projects (Concrete, Tiling, Drywall, and More)		Grades: 9-12
Credits:	0.5	Career Pathways:	EIT, HS
Prerequisites:	Do It Yourself Home Projects	Competencies:	Career/Professional Skills
Description:	Do you want to learn how to complete easy projects at home? Do you want to be able to answer the questions “How do I lay tile and laminate flooring? What is the proper way to mix and pour concrete?” If you would like the answers to these questions and more, then this is the course for you. The course will study the principles and practices dealing with drywalling, flooring, concrete/masonry, laying out a square, and basic car maintenance. This course is designed as a hands-on course where class time will be spent constructing projects in the agricultural laboratory.		
Special Note:	**This course will have a required lab fee of $5.00. This course will only be offered on even graduation years (2028, 2030, etc.)**		

7060	Small Gas Engines		Grades: 10-12
Credits:	0.5	Career Pathways:	EIT, SH
Prerequisites:	None	Competencies:	Career/Professional Skills
Description:	This is a study of principles and practices in the service and repair of small gas engines. All students will be provided with a 3.5 to 6 horsepower Briggs and Stratton engine and all of the necessary tools. Students will work on an overhead valve horizontal shaft engine, and will learn engine parts, tools, and necessary components needed to disassemble and assemble an engine. When students are completed with the class, they should be able to perform basic troubleshooting techniques on small gas engines. After the engines are assembled, students can choose to work on another Briggs and Stratton engine of either horizontal or vertical crankshaft configuration.		

7070 Plant and Greenhouse Science — Grades: 10-12

Credits:	1.0	Career Pathways:	SH
Prerequisites:	None	Competencies:	Career/Professional Skills

Description: Do you want to learn how to grow, sell, and care for plants in a greenhouse and in your backyard while having fun and earning science credits? This course will provide the answers to this question and so much more! Plant and Greenhouse Science will involve the study and hands-on applications of basic plant science, greenhouse management, floral design, vegetable gardening, plant structures, genetically modified plants, and more. The class will raise various types of flowers, vegetable plants, and other projects in the greenhouse. There will be class days spent working in the school's greenhouse and conducting hands-on labs and experiments.

7080 Fish and Wildlife Management — Grades: 9-12

Credits:	0.5	Career Pathways:	SH
Prerequisites:	None	Competencies:	Career/Professional Skills

Description: This course covers four areas in the wildlife field: fish, mammals, water quality, and management. The students will study various Pennsylvania species that affect our environment, and some of these species will include whitetail deer, black bear, coyotes, owls, and more. Throughout the course, students will watch wildlife videos, complete hands-on labs, and participate in wildlife activities. This is a great course for students who would like to learn more about Pennsylvania wildlife species and how conservation has evolved over the years.

7090 Food Science and Safety — Grades: 10-12

Credits:	1.0	Career Pathways:	EIT, HS, SH
Prerequisites:	None	Competencies:	Career/Professional Skills

Description: Students in this course will complete hands-on activities, projects, and problems that simulate actual concepts and situations found in the food science and safety industry, allowing students to build content knowledge and technical skills. Students will investigate areas of food science, including food safety, food chemistry, food processing, food product development, and marketing. Research and sustainable design will be highlighted as students develop and conduct industry-based investigations. The culminating project will involve a food product development process that will include many trials and many sampling sessions.

Special Note: **This course will have a required lab fee of $10.00.**

7100 Basic FFA Leadership — Grades: 9-10

Credits:	1.0	Career Pathways:	SH, BFIT, HS
Prerequisites:	FFA Advisor Recommendation	Competencies:	Career/Professional Skills

Description: Leadership is mapping out where you need to go to "win" as an organization. Through this class, students will conquer their fears of public speaking, develop leadership skills to guide themselves and groups of their peers, analyze leaders of society, master communication, both written and oral, and broaden their knowledge about local and state agricultural issues. Students will study the stages of team work, launch their FFA career, develop a career exploration project, and more. Planning and execution of and involvement in FFA activities will also be part of the grade.

Special Note: **This is a full year course. Students in this course are HIGHLY RECOMMENDED to be FFA members. This course is required for Sophomore FFA officers, but any 9th or 10th grade student may take the course.**

7200 Advanced FFA Leadership — Grades: 11-12

Credits:	1.0	Career Pathways:	SH, BFIT, HS
Prerequisites:	FFA Advisor Recommendation	Competencies:	Career/Professional Skills

Description: Do you want to learn how to become a great leader? In this class, students will learn leadership traits, understand how to motivate others, set goals and improve time management skills, write resumes, participate in an interview, enhance speaking skills, and conduct various types of personality surveys to understand their learning style. This course will help any student to better their leadership and teamwork skills which could be used in future careers. Involvement in the FFA activities will also be part of the class.

Special Note: **This is a full year course. All students enrolled in any agriculture course are local FFA members; students in this course are highly encouraged to complete the requirements to be an active member at the area and state level. This will allow a student to compete or participate at area, state, and national events. All 9th or 10th grade students must enroll in the Basic FFA Leadership course; the Advanced course is only open to 11th or 12th grade students. <u>This course also takes the place of Career Project Seminar for 11th grade students.</u>**

7110 Supervised Agriculture Experience (Record Book) — Grades: 9-12

Credits:	1.0	Career Pathways:	SH, HS
Prerequisites:	None	Competencies:	Career/Professional Skills

Description: This course is for any FFA member who plans to show an animal at the Shippensburg Fair or Farm Show, would like to obtain their FFA degrees and/or any member who would like to maintain an SAE project. If a student is developing their AET projects in another agricultural class, then they do not need to take this course. Record keeping skills in budgeting, inventory, receipts, expenses, and net worth will be taught as well as maintaining a daily log. All projects will be evaluated 3 times a year for a grade.

Special Note: **Students must turn in their records on the assigned due dates in order to receive a grade and a credit for the class.**

7120 Equine Science (Horses) — Grades: 9-12

Credits:	0.5	Career Pathways:	SH
Prerequisites:	None	Competencies:	Career/Professional Skills

Description: This course is a study of the principles and practices dealing with the equine species. If you want to learn more about horses, then this is the course for you. It will include an introduction to the history of horses, classification of various breeds, the anatomy and nutrition of the species, and the proper care and handling techniques. This class is highly recommended for a student that is interested in horses or would like to learn more about horses.

Special Note: **This class is an introductory level course and students with prior horse knowledge must understand that the class will start at the basic level. All students are welcome to take this course.**

7300 Intro to Agribusiness — Grades: 11-12

Credits:	0.5	Career Pathways:	BFIT, SH
Prerequisites:	None	Competencies:	Career/Professional Skills

Description: Introduction to Agribusiness introduces students to business management in agriculture. Mathematics, reading, and writing components are woven in the context of agriculture. Throughout the course are practical and engaging activities, projects, and problems to develop and improve business and employability skills. Additionally, students investigate and develop viable business plans in order to solve local problems. The business plan ideas are communicated to student peers and members of the professional community

AGRICULTURE AND TECHNOLOGY EDUCATION

TECHNOLOGY EDUCATION CLASSES

9000 Introduction to Drafting — Grades: 9-12

Credits:	0.5	Career Pathways:	EIT
Prerequisites:	None	Competencies:	Career/Professional Skills

Description: This introductory course deals with learning drafting fundamentals and basic engineering principles. Students will become familiar with drafting tools, methods, and processes, which are used by industry. Throughout the course, students will develop and practice drafting skills and techniques in order to communicate the drafting language properly. This course will also allow students to explore the area of CADD (Computer Aided Design and Drafting) with the use of the latest version of AutoCAD. This course focuses on mechanical drawings such as multi-view, isometric, and section drawings. Additionally, students will be introduced to 3D modeling and 3D printing.

9010 Civil Engineering — Grades: 10-12

Credits:	1.0	Career Pathways:	EIT
Prerequisites:	Algebra I	Competencies:	Career/Professional Skills

Description: This course provides an overview of the fields of Civil Engineering. This course covers topics such as: The Roles of Civil Engineers, Project Planning, Site Planning, Building Design, Surveying, Topography, and Bridge Design and Construction, all of which will be introduced using Autodesk Civil 3D software. Course Material and projects should be enhanced through participation in Technology Student Association challenges.

Special Note: **This course will have a required lab fee of $10.00.**

9020 Sustainable Engineering — Grades: 9-12

Credits:	0.5	Career Pathways:	EIT
Prerequisites:	None	Competencies:	Career/Professional Skills

Description: This course will provide an overview of various sustainable engineering concepts related to solar power, wind power, water filtration, and solar fuel cells. Students will also learn many different ways to implement sustainable technologies, materials, and energy for their personal use through many different hands-on projects.

Special Note: **This course will have a required lab fee of $10.00.**

9030 Robotics — Grades: 10-12

Credits:	1.0	Career Pathways:	EIT
Prerequisites:	None	Competencies:	Career/Professional Skills

Description: No prior robotics experience is required; the curriculum is created to ensure students with varying learning styles and levels can accomplish goals by sequentially working through units, gradually increasing application of new skills. Additionally, students can advance in their skills to create fully autonomous robotic systems utilizing block programming through industry standard C++ programming environments. This is a hands-on, project-based course utilizing VEX Robotics systems for students to apply learning in creating robots through a series of design challenges.

9040	Architecture I – Residential Architectural Design		Grades: 9-12
Credits:	0.5	Career Pathways:	EIT
Prerequisites:	None	Competencies:	Career/Professional Skills
Description:	This course introduces students to the fundamentals of residential architecture and home design. Students use Autodesk Revit to create digital models while learning about floor plans, home styles, human-centered design, and project management. Through hands-on projects, students develop creativity, problem-solving, and design skills while planning and modeling their own residential designs. No prior experience required.		
Special Note:	**These floor plans can be used in a college application portfolio for prospective architecture students.**		

9041	Architecture II – Commercial Architectural Design		Grades: 9-12
Credits:	0.5	Career Pathways:	EIT
Prerequisites:	Architecture I	Competencies:	Career/Professional Skills
Description:	Commercial builds on skills from Architectural Design I as students design and model commercial and public buildings. Using Autodesk Revit, students explore building types, codes and regulations, accessibility, sustainability, and human-centered design. Through hands-on projects and research, students develop advanced design, problem-solving, collaboration, and project management skills.		
Special Note:	**These floor plans can be used in a college application portfolio for prospective architecture students.**		

9050	Electronics		Grades: 10-12
Credits:	0.5	Career Pathways:	EIT
Prerequisites:	Algebra I	Competencies:	Career/Professional Skills
Description:	In this course, students will gain skills and knowledge through classroom and lab activities in the areas of basic DC and AC circuits, circuit components, testing, electromagnetism and inductance, capacitance, power supplies, power generation and distribution. Students will learn the safe use of the tools, test instruments, equipment and supplies used in this course plus information on career opportunities in this field. Hands-on and problem-solving activities will expose students to areas of electron theory, Ohm's Law, insulators, conductors, and electronic components. Participation in Technology Student Association (TSA) would help to enhance the learning opportunity and provide practical application of the course material that is taught.		

9060	Engineering Design and Innovation Workshop		Grades: 10-12
Credits:	1.0	Career Pathways:	EIT
Prerequisites:	Introduction to Drafting	Competencies:	Career/Professional Skills
Description:	This course introduces students to the engineering design process through hands-on, project-based work in a makerspace environment. Students use AutoCAD and Inventor to create 3D models and 3D-printed projects while applying engineering principles and real-world constraints. The course progresses from guided skill-building to self-directed design challenges, encouraging creativity, problem-solving, and independent thinking.		
Special Note:	**This course will have a required lab fee of $10.00.**		

9070	Wood Technology		Grades: 9-12
Credits:	0.5	Career Pathways:	EIT
Prerequisites:	None	Competencies:	Career/Professional Skills
Description:	This is an introductory course designed to develop student appreciation of problem solving in woodworking technology. Students receive instruction in the following: machine, tool, and personal safety, correct working habits and attitudes, custodial laboratory maintenance, and the proper use of materials, tools, and processes required to successfully plan and construct small wood products in the allotted course time. Emphasis is placed on the development of fundamental problem solving and woodworking skills necessary for good craftsmanship. All students must pay for materials used before any construction begins.		
Special Note:	**Cost per student for materials used in required projects is $20.00-$30.00.**		

9080	Wood Production		Grades: 10-12
Credits:	0.5	Career Pathways:	EIT
Prerequisites:	Wood Technology	Competencies:	Career/Professional Skills
Description:	This is the final course in woodworking technology. Students at this level are expected to apply advanced woodworking techniques learned in Wood Technology. Students in the course will continue to advance in wood working techniques learning new processes using machines and power tools. Students can design a project or select one from an assortment of options. The project includes: completed working drawings, list of materials, construction procedure, board foot and cost computations. Students will pay for their material before work can begin.		

9090	Structural Engineering		Grades: 10-12
Credits:	1.0	Career Pathways:	EIT
Prerequisites:	Architectural Design	Competencies:	Career/Professional Skills
Description:	Students will develop a basic understanding of the design and behavior of structures. Through laboratory activities, students will learn how structures are designed, why certain materials are used, how structures withstand loads, and the impacts of structures on societal, biological, and technological systems.		
Special Note:	**This course will have a required lab fee of $10.00.**		

9110	Introduction to Artificial Intelligence		Grades: 9-12
Credits:	0.5	Career Pathways:	EIT
Prerequisites:	None	Competencies:	Career/Professional Skills
Description:	Ever wonder how Netflix knows what to recommend or how phones recognize faces? In Introduction to Artificial Intelligence, you'll explore how AI works, how machines learn from data, and how smart technology makes decisions. Using hands-on activities from Code.org, you'll investigate real-world AI systems, discover what's happening behind the scenes, and discuss important issues like bias, privacy, and ethics. No coding experience required—just curiosity about the technology shaping your future.		

9120	Drone Beginner		Grades: 9-12
Credits:	0.5	Career Pathways:	EIT
Prerequisites:	None	Competencies:	Career/Professional Skills
Description:	This beginner-level course is designed to provide participants with a comprehensive introduction to the operation of drones, also known as Unmanned Aerial Vehicles (UAVs). Whether you want to fly recreationally or are interested in pursuing a career in the rapidly expanding field of drone technology, this course will equip you with fundamental knowledge and practical skills to safely and effectively operate drones. Through a combination of classroom instruction and hands-on practice, participants will learn about the basic principles of flight, drone components and types, regulations and legal considerations, safety protocols, and best practices for piloting drones. Emphasis will be placed on building a solid foundation in drone operation, fostering a responsible approach to flying, and understanding the ethical implications of drone use.		

9121	Drone Advanced		Grades: 10-12
Credits:	0.5	Career Pathways:	EIT
Prerequisites:	Drone Beginner	Competencies:	Career/Professional Skills
Description:	This advanced-level course is tailored for individuals who have a solid foundation in drone operation and wish to deepen their knowledge and skills in utilizing drones for more complex tasks and applications. Building upon the fundamentals covered in beginner courses, participants will explore advanced techniques, specialized equipment, and emerging technologies to expand the possibilities of drone use across various industries. Through a combination of classroom instruction, practical exercises, case studies, and real-world simulations, participants will delve into advanced topics such as autonomous flight, precision navigation, advanced aerial imaging, and drone integration with other technologies. Emphasis will be placed on practical applications and real-world scenarios, preparing participants to tackle challenges and leverage opportunities in their respective fields of interest.		
Special Note:	**Students must be 16 years of age as of September 1st to be eligible to take the FAA Drone Certification exam upon completion of the course.**		

9130	Honors Technology Education Capstone		Grades: 11-12
Credits:	1.0	Career Pathways:	EIT
Prerequisites:	3 previous Technology Education courses	Competencies:	Career/Professional Skills
Description:	The Big Spring High School Technology and Engineering Capstone Course is designed to provide you with the opportunity to apply all that you have learned in the four years of high school to a project which will extend your learning, stretch your potential, and challenge your abilities. Completed during the senior year, the work of the Capstone Course consists of four major pillars: research paper, product/performance, portfolio, and presentation. The goal is to choose a topic of interest to you and explore it. This might include investigating a topic you have always been curious about or choosing something you know a little bit about and taking your understanding of it to a new and challenging level.		

ART

7500	The Visual Experience		Grades: 11-12
Credits:	1.0	Career Pathways:	AC
Prerequisites:	"B" average or higher overall GPA recommended	Competencies:	Arts and Humanities
Description:	This course is not an art making course, rather it is an exploration of how art has developed and influenced our visual world. The course will start with an overview of artistic concepts, time periods, and art movements. Students will participate in research and discussions throughout the course that explore the relationships of art and history to today's culture.		
Special Note:	**Highly recommended as a prerequisite for AP Studio Art.**		

7605	AP Studio Art		Grades: 11-12
Credits:	**1.0 (Core Credit for AC Pathway)**	Career Pathways:	AC
Prerequisites:	"B" average or higher in 2D Studio Art III is recommended; The Visual Experience is also recommended	Competencies:	Arts and Humanities
Description:	This is the fourth and final level that is a culmination of the drawing and painting skills from the first three levels. The course is based on the requirement of completing a portfolio that will be submitted to AP for scoring. The Portfolio has two main components: Selected works (work that shows the application of skills) and the Sustained Investigation (work on a theme or topic that shows practice, experimentation, and revision). The semester will be spent working on the Sustained Investigation portion of the portfolio requirements in an independent study environment.		
Special Note:	**Offered fall Semester only. It is recommended that students enrolled in AP courses take the AP Exam. This course is weighted .5 for a cumulative GPA calculation. There may be work that needs to be completed after the semester is over. There will be a fee for the portfolio review in May (similar to the AP Exam fee). Students are responsible for the art supplies for the course. Discounted supplies are available for purchase through the Art Department.**		

7600	2D Studio Art I		Grades: 9-11
Credits:	1.0	Career Pathways:	AC
Prerequisites:	None	Competencies:	Arts and Humanities, Project-Based
Description:	This entry level course will focus on basic drawing and painting skills. The course will begin with learning about drawing from observation and progress into exploring new media including: pencil, charcoal, colored pencil, oil pastel, and paint. Students will work on projects that focus on sighting and proportions, value, facial proportions and portraits, and basic color theory and brush techniques.		
Special Note:	**Prerequisite course for Drawing & Painting II. Materials fee of $10 - $20 for the course.**		

7620	2D Studio Art II		Grades: 10-12
Credits:	1.0	Career Pathways:	AC
Prerequisites:	2D Studio Art I; "B" average recommended	Competencies:	Arts and Humanities
Description:	This second level course that will continue to focus on drawing and painting skills. The course will start with a review of drawing skills from level 1. Additionally, the course will progress to more advanced drawing skills and exploring new media including acrylic paint and chalk pastels. Students will work on projects that focus on drawing ellipsis and perspective, landscapes, working with reflections, and ending with a student choice painting.		
Special Note:	**This course is for students who are serious about learning more advanced drawing and painting skills. Prerequisite course for Honors Drawing and Painting III. Materials fee of approximately $20 - $30 for the course if students do not already have the supplies.**		

7630	Honors 2D Studio Art III		Grades: 11-12
Credits:	1.0	Career Pathways:	AC
Prerequisites:	2D Studio Art II; "B" average recommended	Competencies:	Arts and Humanities
Description:	This is a third level course that continues building drawing and painting skills. The course will begin with a review of skills for level 1 and 2, Additionally, the course will progress to more advanced drawing skills using previous media and exploring the new medium of Gouache. Students will work on projects that focus on advanced perspective techniques, composition, symbolism, painting from observation, and expressive portraits.		
Special Note:	**Prerequisite course for AP Studio Art. Materials fee of approximately $30 - $40 for the course if students do not already have the supplies.**		

7700	3D Studio Art I		Grades: 10-12
Credits:	1.0	Career Pathways:	AC
Prerequisites:	None	Competencies:	Arts and Humanities
Description:	This entry level course will focus on constructing three-dimensional works using multiple sculptural skills and techniques. The course will begin with learning about sculptural techniques and progress into exploring new media including: clay, plaster, wire, cardboard and found objects. Students will work on projects that focus on modeling, carving, casting, construction, and assemblage to create final pieces.		

7720	3D Studio Art II		Grades: 11-12
Credits:	1.0	Career Pathways:	AC
Prerequisites:	3D Studio Art I; "B" average recommended	Competencies:	Arts and Humanities
Description:	This second level course will continue to focus on constructing three-dimensional works using multiple sculptural skills and techniques. The course will start with a review of skills from level 1. Additionally, the course will progress to new media including plastercraft. Students will work on projects that focus on geometric form construction, self-portrait, and student choice pieces.		

7800	Ceramics I		Grades: 9-12
Credits:	0.5	Career Pathways:	AC
Prerequisites:	None	Competencies:	Arts and Humanities
Description:	This entry level course will focus on constructing three-dimensional works using basic hand building skills while using clay. The course will begin with learning about basic design skills, the hand building techniques of pinch, coil and slab, and working with finishes for final piece. Students will work on projects that use the hand building techniques in concert to create student designed functional and decorative pieces.		

7820	Ceramics II		Grades: 10-12
Credits:	0.5	Career Pathways:	AC
Prerequisites:	Ceramics I; "B" average recommended	Competencies:	Arts and Humanities
Description:	This second level course that will focus on teaching wheel throwing techniques using clay. The course begins with basic wheel throwing skills such as centering and throwing, and continues with throwing more advanced forms. Students will be required to throw a collection of pieces that are functional (microwave and dishwasher safe).		

7830	Ceramics III		Grades: 10-12
Credits:	0.5	Career Pathways:	AC
Prerequisites:	Ceramics II; "B" average recommended	Competencies:	Arts and Humanities
Description:	This third-level course will focus on teaching more advanced wheel-throwing techniques and combining those techniques with hand building using clay. The course begins with advanced wheel-throwing skills and continues with utilizing a combination of wheel-throwing and hand-building techniques to build a portfolio of ceramic work. Students will be required to throw a collection of functional pieces (microwave- and dishwasher-safe) as well as a series of more intricate forms using a combination of multiple ceramic skills.		
Special Note:	**Ceramics II and III may be taken in the same year.**		

7900	Digital Photography I		Grades: 9-12
Credits:	0.5	Career Pathways:	AC
Prerequisites:	None	Competencies:	Arts and Humanities
Description:	This entry level course will focus on basic photographic skills that apply to any type of camera. The course will begin with a review of basic art concepts, compositional techniques, lighting techniques, digital photo editing, and digital file organization. Students will complete shooting assignments that practice these skills and capture quality digital photographs.		
Special Note:	**It is strongly recommended that you have a basic understanding of using computers to organize and work with digital files. It is also strongly recommended that you have access to a digital camera (Cell phone camera, Point & Shoot camera, or DSLR camera) of your own, as photo shoots will be primarily done outside of class. Cameras are available for sign out if needed.**		

7920	Digital Photography II		Grades: 10-12
Credits:	1.0	Career Pathways:	AC
Prerequisites:	Digital Photography I; "B" average recommended	Competencies:	Arts and Humanities
Description:	This second level course will continue to focus on photographic skills, but will require the use of a DSLR or Mirrorless camera. The course will begin with a review of level 1 concepts and introduce the DSLR and it's features and students will complete shooting assignments that practice using aperture, shutter speed, and advanced lighting techniques using the DSLR. In the second half of the semester, students will work on independent projects that will be assembled into a website portfolio with the assistance of a guest instructor.		
Special Note:	**You will have access to school DSLR cameras that can be signed out for the class or you can use your own DSLR or Mirrorless camera for the class (if it meets the minimum requirements for class). CELLPHONE CAMERAS WILL NOT BE ACCEPTABLE FOR THIS CLASS!**		

BUSINESS, FINANCE, AND INFORMATION TECHNOLOGY

5300	Career Project Seminar		Grades: 11
Credits:	0.5	Career Pathways:	**This course is required for graduation; all students must successfully pass this course or equivalency.**
Prerequisites:	None	Competencies:	
Description:	This course helps students choose a career path they are interested in pursuing and research the necessary preparation. Students will complete an interest Inventory and personality survey to determine careers suited to them, and will develop a resume and cover letter tailored to that career. Students will reinforce the experience by participating in a job shadow and mock interview in that career.		
Special Note:	**This course is required for graduation; all students must successfully pass this course or equivalency. Students may not job shadow at their current place of employment or internship.**		

5400	Personal Finance		Grades: 11-12
Credits:	0.5	Career Pathways:	**This course is required for graduation; all students must successfully pass this course.**
Prerequisites:	None	Competencies:	
Description:	This course is designed to teach students how to responsibly and effectively manage their money. Students will learn how to set financial goals, budget their money, save and invest their money, understand insurance, open and maintain a checking account, use credit effectively, and distinguish between the different sources of credit.		
Special Note:	**This course is required for graduation; all students must successfully pass this course.**		

5020	Principles of Marketing		Grades: 10-12
Credits:	0.5	Career Pathways:	AC, BFIT, HS
Prerequisites:	Business 101 recommended	Competencies:	Career/Professional Skills
Description:	Marketing is all around us – every place we go, every item we consume, every person we talk to and every advertisement we witness. This course will introduce students to basic marketing terminology and concepts such as marketing researching and planning, advertising and promoting, and selling. Dynamic examples such as episodes of the hit ABC Series, Shark Tank©, Flo the Progressive Lady, Jake from State Farm, and many more will be used to demonstrate the curriculum.		
Special Note:	**An emphasis is placed on group work and a majority of the class grade will require students to work in a group setting.**		

5090	Business 101		Grades: 9-10
Credits:	1.0	Career Pathways:	BFIT
Prerequisites:	None	Competencies:	Career/Professional Skills
Description:	This course prepares and elevates students of all areas. Join this high-energy, high-impact, and dynamic class to learn the key principles and components of business and leadership such as decision making, habits, ethics, and teamwork through an array of self-discovery and mentored activities. Additionally, entry level business topics will be explored such as business types, structures, and practices.		
Special Note:	**This course is a full year course. Members of this class are encouraged to join Future Business Leaders of America (FBLA), an organization represented at many high schools all over the country and the world. Club dues for the 2026-2027 school year will be approximately $25.00.**		

5030 Retail Management — Grades: 9-12

Credits:	0.5	Career Pathways:	AC, BFIT, HS
Prerequisites:	None	Competencies:	Career/Professional Skills

Description: This course will teach the concepts of owning or operating a retail store. Students will learn how retailers manage inventory, market products, make purchasing decisions, order merchandise to be sold, price merchandise, provide customer service and a variety of related skills and tasks

5050 Event Planning — Grades: 9-12

Credits:	0.5	Career Pathways:	AC, BFIT
Prerequisites:	None	Competencies:	Career/Professional Skills

Description: Event planning is a fast-growing industry. This career field is best suited to those that have a lot of energy, are comfortable with self-promotion, enjoy talking to and socializing with others, are well organized, can handle multi-tasking and have an eye for detail. Some of the topics covered in this course include communication, negotiation, organization, problem solving, and interpersonal skills. This course will provide a basic understanding of event planning. Those who have a desire to organize and help others host both large- and small-scale events will enjoy this class.

5080 Sports Management — Grades: 9-10

Credits:	0.5	Career Pathways:	BFIT
Prerequisites:	None	Competencies:	Career/Professional Skills

Description: The field of sports is a massive industry, valued well into the hundreds of billions of dollars. From exciting championship events to heart-pounding concerts (and everything in-between), the industry is full of opportunity. In this course, general principles of management are presented and intended to be a guide on taking your first career step into the fast-paced, challenging, and competitive world of sports. If you have considered what your career could be in sports, this class is a great introduction into the field. Students will be expected to collaborate with classmates and present projects.

5100 Fundamentals of Accounting — Grades: 10-12

Credits:	**1.0**	Career Pathways:	BFIT, HS
Prerequisites:	None	Competencies:	Career/Professional Skills

Description: **This course is designed for students wishing to pursue a college degree in business or who plan on owning their own business soon after leaving high school.** Students will be introduced to accounting principles and procedures for a business run as a sole proprietorship. Students will follow the accounting cycle by analyzing and interpreting the financial operations and documents of a business. Additionally, students will learn about accounting systems and specific accounting procedures for merchandisers.

Special Note: **This class is eligible for dual enrollment credit through Lackawanna College.**

5200 Entrepreneurship — Grades: 10-12

Credits:	0.5	Career Pathways:	AC, BFIT, EIT, HS
Prerequisites:	None	Competencies:	Career/Professional Skills

Description: This course is designed to get students excited about becoming true entrepreneurs. Students will have the opportunity to create and fully develop their own product or service. Real-world entrepreneurs and business experts will serve as coaches and mentors guiding student teams through the process of ideation, market research, and business plan development. Over the course of the year, student teams will learn about marketing, accounting, human resources, as well as the legal aspects of running a business to get them geared up for their Pitch. Pitches put student teams in front of actual investors to pitch their innovative idea and possibly win funding to turn their business plans into reality during the summer and following school year.

CAREER INTERNSHIP OPPORTUNITIES

These opportunities are coordinated by the Business Department. Students can earn credit for participation. Speak with Mrs. Powell for more information. Internships can count as a Project-Based Competency.

C600 Career Internship

Description: This program is a supervised, paid or non-paid occupational experience at a school-approved site. Students are given the opportunity to explore their intended career field to gain a better understanding and appreciation of the field and to help make more informed decisions regarding career choices and post-secondary education. Transportation and related costs of participation are the student/parent's responsibility.

C509 Art Exploration Program

Description: This program is exploration with Carlisle Area art and design-related businesses. Students spend one quarter exploring various careers and business opportunities that are offered by the businesses. Based on a final evaluation of the student's work ethic during the exploration, they may be offered an additional quarter interning/volunteering at a specific business. Students are selected through an application process. Transportation and related costs are the student/parent's responsibility.

C511 Penn State PULSE Program

Description: This is an after-school program taught at Penn State Milton S. Hershey Medical Center. PULSE aims to cultivate interest in medicine, biomedical science and healthcare systems science by introducing learners to medical students, biomedical researchers and practicing clinicians. Students attend lectures, review patient cases, and gain shadowing opportunities. Transportation and related costs of participation are the student/parent's responsibility. Students must apply for this program in the Spring.

C512 ACE Mentoring Program

Description: This is an after-school program that gives students a hands-on introduction to careers in architecture, construction management, and engineering. Industry professionals meet with the students at the Cumberland-Perry Vo-Tech once a week from 5:00 p.m. until 6:30 p.m. from October through March. Transportation and a one-time fee of $40 are the student/parent's responsibility.

C513 CPARC Social Services Exploration

Description: This is a social services exploration program at CPARC Carlisle/Mechanicsburg. The mission of CPARC is to empower, inspire, and educate adults with intellectual disabilities. Students will spend one quarter of their senior year exploring several departments within the organization. Based on a final evaluation of the student's work ethic during the exploration, they may be offered an additional quarter of interning/volunteering in a specific area. These students will be selected through an application process. Transportation and related costs are the student/parent's responsibility.

C514 Penn State Holy Spirit Health Careers Internship

Description: This program is available through a partnership with Penn State Holy Spirit. Students spend the first quarter of their senior year exploring the many career opportunities offered at a large healthcare facility. Students are selected through an application and interview process. Only two students from Big Spring are selected to attend. Transportation and related costs are the student/parent's responsibility.

C516 Emergency Medical Technician (EMT) Program

Description: This course is offered through HACC during Semester II. Students will gain the knowledge and skills required to provide basic pre-hospital emergency care. The class is held at Cumberland Goodwill EMS Station in Carlisle. Tuition for the course is $925 and the cost of the textbook is $143. Transportation and related costs of participation are the student/parent's responsibility.

C519 Emerging Health Professions Internship

Description: The Emerging Health Professionals Programs is a dual enrollment program that combines skills-based, interactive and university-level classroom learning with shadowing in a health care setting. The program is designed for high school seniors interested in the health care field and allows students the opportunity to explore careers in health care first-hand. In addition, the program is designed to prepare students for post-secondary education by offering college science courses through a regionally accredited University.

The Emerging Health Professionals Program is a half-day program that runs the duration of the school year in conjunction with required high school curriculum. Students spend two days a week taking college courses, two days a week in a health care setting and one day a week developing skills. Students in this program take anatomy and physiology for a total of eight college credits.

C520 UPMC Health Exploration

Description: This program is available through a partnership with UPMC Carlisle. Students spend one quarter exploring the many career opportunities offered by the healthcare facility. Based on a final evaluation of the student's work ethic during the exploration, they may be offered an additional quarter interning/volunteering in a specific area. Students are selected through an application process. Transportation and related costs are the student/parent's responsibility.

C521 Volvo Exploration Program

Description: This program is available through a partnership with Volvo in Shippensburg. Students spend one quarter exploring manufacturing, engineering, and business career opportunities that are offered by the facility. Based on a final evaluation of the student's work ethic during the exploration, they may be offered an additional quarter interning/volunteering in a specific area. Students are selected through an application process. Transportation and related costs are the student/parent's responsibility.

C522 Cumberland County Exploration Program

Description: This program is exploration with Cumberland County Agencies. Students spend one quarter exploring various career opportunities that are offered by the agencies. Based on a final evaluation of the student's work ethic during the exploration, they may be offered an additional quarter interning/volunteering at a specific business. Students are selected through an application process. Transportation and related costs are the student/parent's responsibility.

C521 Warehousing/Logistics Exploration Program

Description: This program is exploration with DHL in Newville. Students spend one quarter exploring various careers and business opportunities that are offered at the facility. Based on a final evaluation of the student's work ethic during the exploration, they may be offered an additional quarter interning/volunteering at a specific business. Students are selected through an application process. Transportation and related costs are the student/parent's responsibility.

C523 Nonprofit Exploration Program

Description: This program is exploration with local nonprofit businesses. Students spend one quarter exploring various careers and business opportunities that are offered in nonprofit businesses. Based on a final evaluation of the student's work ethic during the exploration, they may be offered an additional quarter interning/volunteering at a specific business. Students are selected through an application process. Transportation and related costs are the student/parent's responsibility.

COMPUTER SCIENCE

Computer science courses are taught by teachers in our math and business departments.

3620	Computer Science Discoveries		Grades: 9-10
Credits:	0.5	Career Pathways:	BFIT, EIT, SH
Prerequisites:	None	Competencies:	Career/Professional Skills
Description:	An introductory computer science course that empowers students to create authentic artifacts, and engage with computer science as a medium for creativity, communication, problem solving, and fun! Students can use this class to gauge their interest in the area of computer science that is not solely focused on computer coding. Topics include problem solving and computing, interactive animations and games, data and society, creating apps with devices, AI, and machine learning.		

3610	Computer Science Principles		Grades: 9-12
Credits:	0.5	Career Pathways:	AC, BFIT, EIT, HS, SH
Prerequisites:	Computer Science Discoveries recommended (not required)	Competencies:	Career/Professional Skills
Description:	How does technology impact and transform your world? This course introduces you to the foundational concepts of computer science and challenges you to explore areas such as programming, data privacy, encoding, encrypting and storage. In doing so, you will use technology to address real-world problems and build relative solutions. No experience in programming is needed.		

5000	Website Design		Grades: 9-12
Credits:	0.5	Career Pathways:	AC, BFIT, HS
Prerequisites:	None	Competencies:	Career/Professional Skills
Description:	Millions of people utilize the digital world every day! Much of our daily life is now available on the internet! Whether we are looking for the latest scores, finding our favorite music, or ordering takeout, online platforms have become intertwined with our every day. Ever wonder why a website looks the way it does? How does the designer choose graphics and fonts? Why is one website much easier to navigate than another? Well, we have the class for you! Through our Website Design course, students will engage in the design elements of online pages, both individually and in group settings, to help create a quality user experience. Come discover the differences between web designers and web developers, evaluate professionally produced websites, and review various online website building tools.		

ENGLISH

0100	English I		Grades: 9
Credits:	1.0	Career Pathways:	**English I is required for graduation; all students must successfully pass this core course.**
Prerequisites:	None	Competencies:	
Description:	Students will complete the CommonLit 360 online/9th grade curriculum, which focuses on both nonfiction and fictional texts. Multiple choice and constructed responses are key in developing students before the Keystone Exams in English II. A student choice/novel unit will also be included that will encourage collaboration, communication, and critical thinking, all parts of the Profile of a Graduate.		
Special Note:	**English I and English II are sequential.**		

0100	Honors English I		Grades: 9
Credits:	1.0	Career Pathways:	**English I is required for graduation; all students must successfully pass this core course.**
Prerequisites:	MS Data and Recommendations	Competencies:	
Description:	Students will complete the CommonLit 360 online/9th grade curriculum, which focuses on both nonfiction and fictional texts. Multiple choice and constructed responses are key in developing students before the Keystone Exams in English II. A student choice/novel unit will also be included that will encourage collaboration, communication, and critical thinking, all parts of the Profile of a Graduate.		
Special Note:	**English I and English II are sequential.**		

0200	English II		Grades: 10
Credits:	1.0	Career Pathways:	**English II is required for graduation; all students must successfully pass this core course.**
Prerequisites:	English I	Competencies:	
Description:	Students will complete the CommonLit 360 online/10th grade curriculum, which focuses on both nonfiction and fictional texts. Multiple choice and constructed responses are key in developing students before the end of course Keystone Exams. Students will also complete a novel unit and research paper encouraging communication, and critical thinking, both parts of the Profile of a Graduate.		
Special Note:	**English I and English II are sequential. Students will take the Literature Keystone exam at the conclusion of this course.**		

0200	Honors English II		Grades: 10
Credits:	1.0	Career Pathways:	**English II is required for graduation; all students must successfully pass this core course.**
Prerequisites:	English I	Competencies:	
Description:	Students will complete the CommonLit 360 online/10th grade curriculum, which focuses on both nonfiction and fictional texts. Multiple choice and constructed responses are key in developing students before the end of course Keystone Exams. Students will also complete a novel unit and research paper encouraging communication, and critical thinking, both parts of the Profile of a Graduate.		
Special Note:	**The Honors English section is designed for students who have demonstrated superior communication skills. It is recommended that a student has a B average or above in prior academic English courses. The students will be expected to address reading, writing, and research assignments thoroughly and quickly. The course will be concept-oriented with an emphasis on creative and abstract thinking. Summer reading and other enrichment activities are part of this course. English I and English II are sequential.** **Students will take the Literature Keystone exam at the conclusion of this course.**		

0650	AP Seminar		Grades: 10
Credits:	1.0	Career Pathways:	**English II is required for graduation; all students must successfully pass this core course.**
Prerequisites:	Honors English I; Keystone Literature Proficiency	Competencies:	
Description:	AP Seminar is a foundational, college-level course that develops students' abilities to research complex issues, analyze diverse perspectives, and craft evidence-based arguments. Students explore real-world topics through inquiry, collaboration, and critical reading of academic and nonacademic texts. The course emphasizes effective communication through written arguments, multimedia presentations, and oral defenses. By the end of the course, students are prepared to think critically, ask meaningful questions, and engage in rigorous academic discourse across disciplines.		
Special Note:	**AP Seminar is an elective course in the English Department. It will not replace the mandatory annual English course. Students will complete all projects regardless of whether or not they choose to submit for AP credit through the College Board. The course is weighted .5 for a cumulative GPA calculation.**		

0310	English III - Research Writing		Grades: 11
Credits:	1.0	Career Pathways:	**English III is required for graduation; all students must successfully pass this core course.**
Prerequisites:	English II	Competencies:	
Description:	In this class, students will learn how to evaluate online resources, use civil discourse to discuss current topics, and compose research-based writing. These reading and writing tasks will be shaped around real-life issues relevant to students preparing to leave high school. This course is designed for students **who are not planning to earn a four-year degree after high school**.		

0300	English III - College Preparatory Writing		Grades: 11
Credits:	1.0	Career Pathways:	**English III is required for graduation; all students must successfully pass this core course.**
Prerequisites:	English II	Competencies:	
Description:	This course is designed for students **who are planning to attend a four-year college/university**, and seeks to improve their writing and analytical skills through writing forms such as narrative, expository, and argumentative. Although there will be reading involved, the goal is to introduce students to the conventions of academic writing and critical thinking.		

0305	AP English Language and Composition		Grades: 11
Credits:	1.0	Career Pathways:	**English III is required for graduation; all students must successfully pass this core course.**
Prerequisites:	English II	Competencies:	
Description:	This course serves to prepare students to take the AP Language and Composition exam, which aligns with introductory college-level rhetoric and writing. Students will develop evidence-based analytical argumentative essays through several stages or drafts, and students will evaluate, synthesize, and cite research to support their arguments. Throughout the course, students will develop a personal style by making appropriate grammatical choices. Additionally, students will read and analyze rhetorical elements and their effects in non-fiction texts from various disciplines and historical periods.		
Special Note:	**It is recommended that students enrolled in AP courses take the AP Exam. AP English is weighted .5 for a cumulative GPA calculation. Also, students enrolled in AP Language and Composition will have summer reading and writing assignments to be completed prior to the start of the course.**		

0410	English IV - Literature		Grades: 12
Credits:	1.0	Career Pathways:	**English IV is required for graduation; all students must successfully pass this core course.**
Prerequisites:	English III	Competencies:	
Description:	Students will explore universal themes and issues by reading both fiction and nonfiction texts. Students will read both whole-class texts and self-selected texts. Class discussions and assessments will center around analysis of these texts and how they apply to our everyday lives. This course is designed for students **who are not planning to earn a four-year degree after high school.**		

0400	English IV - College Preparatory Literature		Grades: 12
Credits:	1.0	Career Pathways:	**English IV is required for graduation; all students must successfully pass this core course.**
Prerequisites:	English III	Competencies:	
Description:	This course is designed for students **who are planning to attend a four-year college**. Students will examine major literary themes through reading novels, short stories, plays, poems, and nonfiction works that reflect a variety of societies and cultures. Class discussions and compositions will encourage analytical and critical thinking.		

0405	AP English Literature and Composition		Grades: 12
Credits:	1.0	Career Pathways:	**English IV is required for graduation; all students must successfully pass this core course.**
Prerequisites:	English III	Competencies:	
Description:	Students will further enhance their skills of critical analysis in both literature and composition through a study, both wide and deep, of classic and modern fiction, poetry and drama. In content and structure, the course will follow the AP Literature Course and Exam Description provided by the College Board.		
Special Note:	**It is recommended that students enrolled in AP courses take the AP Exam. AP English is weighted .5 for a cumulative GPA calculation. Also, students enrolled in AP Literature and Composition will have summer reading and writing assignments to be completed prior to the start of the course.**		

0130	Photo Journalism		Grades: 9-12
Credits:	1.0	Career Pathways:	AC, BFIT
Prerequisites:	None	Competencies:	Career/Professional Skills
Description:	Using design software, students will learn to plan and design a yearbook while adapting their writing skills to the style of journalism. Interest in writing, photography, interviewing, publishing, designing, and school activities are essential, as are a willingness to meet deadlines, attend school events, respond to constructive feedback, and work collaboratively with others.		
Special Note:	**This is a full year course. Enrollment in this course is open to all students in Grades 9-12, but is limited to those who are approved by the instructor/advisor.**		

0160	World of Theatre		Grades: 9-12
Credits:	0.5	Career Pathways:	AC
Prerequisites:	None	Competencies:	Career/Professional Skills
Description:	In order to gain a full understanding of the theater arts, students need to study all aspects of theater. In this course, students will have the opportunity to learn how productions evolve both on and off stage. Students will study the history of theater, set design, costuming and makeup, stage presence, memorization, writing scripts, reading published plays and more.		

0170	Creative Writing		Grades: 9-12
Credits:	0.5	Career Pathways:	AC
Prerequisites:	None	Competencies:	Core Credit
Description:	This course stresses creativity and individualized projects. Students will read published poetry, fiction, plays, and narrative essays. As part of the writing process, students will read, revise and discuss their writing with peers. Units of study may include, but are not limited to: poetry, short stories, drama, and narratives.		

0180	Mass Media		Grades: 10-12
Credits:	0.5	Career Pathways:	AC
Prerequisites:	None	Competencies:	Career/Professional Skills
Description:	For those interested in a hands-on and fast paced class on journalism, from newspapers to digital media. Students will learn to write in an inquiry-based method, as well as develop communication and critical thinking skills in order to produce articles for an online newspaper and digital media tools. Visit our online newspaper at www.bshspawpring.com where you can check out our articles and broadcasts.		

0190	Public Speaking		Grades: 9-12
Credits:	0.5	Career Pathways:	AC, BFIT, EIT, HS
Prerequisites:	None	Competencies:	Core Credit
Description:	This nine-week elective will engage students in a number of speaking situations with the goal of building confidence and fluency when speaking in front of large and small groups. The course will also include a focus on speaking and listening etiquette. Students will learn techniques for a variety of speech types, including informative, persuasive, and impromptu. Additionally, students will learn and apply various organizational techniques to their speeches, will analyze the techniques used in famous speeches, and will learn the basics of logic and rhetoric.		

0140	TV Production		Grades: 10-12
Credits:	0.5	Career Pathways:	AC
Prerequisites:	None	Competencies:	Arts/Humanities
Description:	TV Production is a full-year elective focused on broadcast journalism and scripted media production. Students will: ● Produce a daily 6-minute live-to-tape school news broadcast ● Write, script, voice act, and produce six episodes of *Big Spring USA* , a scripted, animated teen sitcom with a laugh-track format ● Work in rotating production roles including writer, producer, director, anchor, camera operator, audio technician, editor, and voice actor While animation is completed externally, all creative development, scripting, performance, and editorial decision-making occurs within the course, providing students with full ownership of the content.		

HEALTH AND PHYSICAL EDUCATION

4000	Teen Health I		Grades: 9
Credits:	0.5	Career Pathways:	**This course is required for graduation; all students must successfully pass this course.**
Prerequisites:	None	Competencies:	

Description: Students will gain an understanding of life skills and health and wellness components critical to their well-being and well-being of others. Health topics will include communication and collaboration strategies, mental health, stress-related topics, human sexuality and relationships, disease awareness, prevention and responding to emergencies. Students will also set and monitor health related and life enhancement goals.

This course is paired with physical education and will contain both physical activity and classroom components.

Special Note: **This course is required for graduation; all students must successfully pass this course.**

4100	Teen Health II		Grades: 10 -12
Credits:	0.5	Career Pathways:	**This course is required for graduation; all students must successfully pass this course.**
Prerequisites:	None		

Description: Students will participate in daily moderate to vigorous physical activities and experience their impact on adolescent health improvements. Throughout the course particular attention will be given to the relationship between participation in a regular exercise and nutrition program in regards to stress management, increase in strength and flexibility, disease prevention, and weight management. The student will be exposed to a variety of exercises and activities that provide physical, social, emotional and self-care benefits that can be useful throughout the aging process.

This course is paired with physical education and will contain both physical activity and classroom components.

Special Note: **This course is required for graduation; all students must successfully pass this course.**

4300	Driver's Education		Grades: 10-12
Credits:	0.5	Career Pathways:	HS, SH
Prerequisites:	None	Competencies:	Health/PE Elective

Description: Students will learn about obtaining a permit / license, rules of the NHS (National Highway System), defensive driving techniques / driver & passenger safety strategies, privileges and penalties, basic vehicle operation controls, instruments, gauges & warning lights, how to become a responsible driver in all conditions and how to prepare for emergency situations. Students will also learn about alcohol, tobacco and other drugs as a part of the health components of this course.

This course is paired with physical education and will contain both physical activity and classroom components.

4310 Lifelong Adventure Fitness and Wilderness First Aid — Grades: 9-12

Credits:	0.5	Career Pathways:	HS, SH
Prerequisites:	None	Competencies:	Health/PE Elective

Description: This course is designed to transition students from traditional team sports to lifetime outdoor pursuits, focusing on survival skills, personal leadership, and environmental stewardship. Through experiential learning, students will master the fundamentals of goal setting, teamwork, and consumer health, gaining the ability to make informed decisions about outdoor gear, nutrition, and safety. The curriculum emphasizes "challenge by choice," encouraging students to step out of their comfort zones to build confidence and resilience in the natural world. Students will actively engage in a wide range of hands-on field activities, including boating, fishing, archery, and mountain biking, as well as essential survival skills like fire building, camp cooking, setting up a tent, and wilderness first aid. Throughout the semester, students will learn to manage risks and handle emergencies, with the opportunity to earn valuable industry-recognized certifications such as the Pennsylvania Boating Safety Certificate, Wilderness First Aid, and CPR

4340 Weight Training — Grades: 9-12

Credits:	0.5	Career Pathways:	HS, SH
Prerequisites:	None	Competencies:	Health/PE Elective

Description: Reinforces the proper guidelines, principles and techniques of weight lifting, and the development of muscular strength, endurance, power and flexibility at a beginner, intermediate and advanced level. Introduces Olympic lifting techniques. Continues development of individual weight training programs and advanced evaluation techniques.

Classes will be conducted in a large group situation for lectures, warm up, cool down, and core training. With the guidance of the instructor, students will evaluate types of muscular strength and endurance training and implement a weight training and flexibility program for personal needs. Each student will progress at a rate commensurate with their abilities. Pre and post assessment will be conducted for flexibility, body composition, muscular strength, and muscular endurance.

4410 Lifeguard Training — Grades: 10-12

Credits:	0.5	Career Pathways:	HS, SH
Prerequisites:	None	Competencies:	Health/PE Elective

Description: This course will provide training for lifeguarding jobs. Upon successful completion of the course requirements, the American Red Cross will certify the student. This course may be used as an elective or as a .5 health and physical education credit.

Special Note: **Students must be at least 15 years old to participate in the certification process.**
Students must pay for the certification process and related material—approximate cost $55.00.

4420 Elementary Water Safety — Grades: 10-12

Credits:	0.5	Career Pathways:	HS, SH
Prerequisites:	Lifeguard Training	Competencies:	Health/PE Elective

Description: This course is designed to allow recently certified lifeguards the opportunity to get the hands-on experience of observing and working in an aquatic environment. The students will spend time working in the pool with elementary level students in small groups. They will be educated in the basics of stroke mechanics and safety around aquatic environments. The lifeguards will also be putting their recently learned guarding skills in place by observing elementary water behavior and lifeguarding during the elementary class. This will provide the lifeguard with additional training in a controlled area before the lifeguard is actually placed in the position of head lifeguard. This class will also provide more individualized attention to the elementary students in the swimming classes.

Special Note: **Lifeguard certification is a prerequisite for this course.**

4430	Babysitting and Aquatic Games		Grades: 9-12
Credits:	0.5	Career Pathways:	HS, SH
Prerequisites:	None	Competencies:	Health/PE Elective

Description:

The American Red Cross babysitting course in addition to aquatic games fulfills a health and physical education credit. This class will allow students to learn babysitting techniques, complete projects on planning activities, show responsibility, diaper changing, effective communication with children and adults, leadership styles and discipline techniques while babysitting. Upon successful completion of the course and an 80% grade on the American Red Cross final students receive their American Red Cross First Aid and CPR Certification.

The Physical Education portion will consist of reviewing the 5 components of fitness followed by participating in water exercise and games that will help them achieve a positive body image as well as muscular endurance, muscular strength and cardiovascular endurance. Students will also understand the benefits of regular physical fitness such as social, psychological and physical benefits

Special Note: **American Red Cross Babysitting handbook. Students are able to view the babysitting material through an online babysitting handbook. Books are available for purchase at cost from the American Red Cross.**

LANGUAGES FOR THE 21ST CENTURY

The Big Spring High School program of language studies adheres to the instructional standards of the American Council on the Teaching of Foreign Languages. Through our classroom program we offer a comprehensive, sequenced education in language study, centered on the development of target language proficiency in Listening Comprehension, Oral Communication Skills, Literacy and Composition. Spanish and French are two of the three principal languages of the American continents, and are the heritage languages of millions of people all over the world.

Big Spring students who show a strong interest in language study have the opportunity to enroll in more than one language at a time, and to complete multiple levels of both French and Spanish.

Information regarding the opportunity to study languages not offered through our classroom program of instruction is available upon request. Online Language courses are an opportunity for students to explore with their counselor.

6100	Spanish I: Introductory/Novice Level		Grades: 9-12
Credits:	1.0	Career Pathways:	AC, BFIT, EIT, HS, SH
Prerequisites:	See Special Note	Competencies:	Core Credit
Description:	Do you want to start your journey towards communicating with millions of people around the world? In level I you will begin to understand, speak, read and write in the language by learning simple conversational skills through units such as: family, school life, sports and food! Explore different regions of the world, famous people, cuisine and more!		
Special Note:	**A grade of "C" or higher in the most recent English class is recommended for entry into the language studies program.**		

6200	Spanish II: Novice Level		Grades: 9-12
Credits:	1.0	Career Pathways:	AC, BFIT, EIT, HS, SH
Prerequisites:	Spanish I	Competencies:	Core Credit
Description:	Continue your journey towards language proficiency with level II! In this course continue speaking, reading, listening and writing by exploring travel by train and plane, dining at a restaurant, shopping and more! Discover artwork by well-known Spanish artists, shop at the Corte Ingles and hop aboard the AVE in Spain!		
Special Note:	**A grade of "C" or higher in Spanish I is recommended for advancement to Spanish II.**		

6300	Spanish III: Novice/Intermediate Level		Grades: 10-12
Credits:	1.0	Career Pathways:	AC, BFIT, EIT, HS, SH
Prerequisites:	Spanish II	Competencies:	Core Credit
Description:	Level III is the gateway to language fluency! You will learn to speak, read, and write with increasing accuracy and confidence. Units of study continue to be thematically based as you are guided to draw on the wealth of vocabulary and language structures you've accumulated since your introduction to the language in Level I. Discover hotels in Spain, cars and driving and the legendary Don Quixote!		
Special Note:	**A grade of "C" or higher in Spanish II is recommended for advancement to Spanish III.**		

6400	Honors Spanish IV: Intermediate Level		Grades: 10-12
Credits:	1.0	Career Pathways:	AC, BFIT, EIT, HS, SH
Prerequisites:	Spanish III	Competencies:	Core Credit
Description:	It's time for an adventure throughout the Spanish-speaking world in Honors level IV! Discover the people, events, places and traditions that have shaped the countries of Latin America and Spain. You will continue to improve your reading, writing, speaking and listening skills with your classmates as we strengthen grammar knowledge.		
Special Note:	**A grade of "B" or higher in Spanish III is recommended for advancement to Spanish IV.**		

6500	Honors Spanish V: Intermediate Level		Grades: 11-12
Credits:	1.0	Career Pathways:	AC, BFIT, EIT, HS, SH
Prerequisites:	Spanish IV	Competencies:	Core Credit
Description:	In Honors Spanish V, it's time to investigate authentic Spanish literature, analyze environmental issues and become acquainted with the legend of El Cid! You will engage on a daily basis to use your reading, writing, listening and speaking skills in Spanish with your classmates.		
Special Note:	**A grade of "C" or higher in Spanish IV is recommended for advancement to Spanish V.**		

6600	French I: Introductory Level		Grades: 9-12
Credits:	1.0	Career Pathways:	AC, BFIT, EIT, HS, SH
Prerequisites:	See Special Note	Competencies:	Core Credit
Description:	Do you want to start your journey towards communicating with millions of people around the world? In level I you will begin to understand, speak, read and write in the language by learning simple conversational skills through units such as: family, school life, and food! Explore different regions of the world, famous people, cuisine and more!		
Special Note:	**A grade of "C" or higher in the most recent English class is recommended for entry into the language studies program.**		

6700	French II: Novice Level		Grades: 9-12
Credits:	1.0	Career Pathways:	AC, BFIT, EIT, HS, SH
Prerequisites:	French I	Competencies:	Core Credit
Description:	Continue your journey towards language proficiency with level II! In this course continue speaking, reading, listening and writing by exploring environmental issues, dining at a restaurant, shopping and more! Discover artwork by well-known French artists, monuments of Paris and regions of France!		
Special Note:	**A grade of "C" or higher in French I is recommended for advancement to French II.**		

6800	French III: Novice/Intermediate Level		Grades: 10-12
Credits:	1.0	Career Pathways:	AC, BFIT, EIT, HS, SH
Prerequisites:	French II	Competencies:	Core Credit
Description:	Level III is the gateway to language fluency. You will learn to speak, read, and write with increasing accuracy and confidence. Units of study continue to be thematically based as you are guided to draw on the wealth of vocabulary and language structures you've accumulated since your introduction to the language in Level I. Discover hotels, cars and driving and French art!		
Special Note:	**A grade of "C" or higher in French II is recommended for advancement to French III.**		

6900	Honors French IV: Intermediate Level		Grades: 10-12
Credits:	1.0	Career Pathways:	AC, BFIT, EIT, HS, SH
Prerequisites:	French III	Competencies:	Core Credit
Description:	In Honors French IV you will investigate French cuisine, contemporary societal topics and the renowned Phantom of the Opera! You will engage with your classmates to continue reading, writing, listening and speaking in French.		
Special Note:	**A grade of "B" or higher in French III is recommended for advancement to French IV.**		

MATHEMATICS

3000	Algebra I		Grades: 9-12
Credits:	1.0	Career Pathways:	**This course is required for graduation; all students must successfully pass this course.**
Prerequisites:	None	Competencies:	
Description:	Algebra I serves as the foundation for all higher level mathematics courses. Students will develop a fundamental understanding of equations, inequalities, and functions (including linear, exponential, and quadratic). Emphasis is placed on the thinking process, organizational skills, and the understanding of concepts through problem solving.		
Special Note:	**Students will take the Algebra 1 Keystone Exam at the end of this course.**		

3001	Algebra I: Linear Functions		Grades: 9-12
Credits:	1.0	Career Pathways:	**This course in combination with Algebra 1: Nonlinear functions fulfills the Algebra 1 requirement for graduation**
Prerequisites:	None	Competencies:	
Description:	Algebra 1: Linear Functions is the first part of a two-part sequence to fulfill the Algebra 1 requirement. This class serves as the foundation for all higher-level mathematics courses where students will develop a fundamental understanding of equations, inequalities, statistics, and their application to real-world situations.		
Special Note:	**Student enrollment in this course will be determined by administration. Students will take the Algebra 1 Keystone Exam at the end of this course.**		

3002	Algebra I: Nonlinear Functions		Grades: 9-12
Credits:	1.0	Career Pathways:	**This course in combination with Algebra 1: Linear functions fulfills the Algebra 1 requirement for graduation**
Prerequisites:	None	Competencies:	
Description:	Algebra 1: Non-Linear Functions is the second part of a two-part sequence to fulfill the Algebra 1 requirement. This class explores the fundamental concept of a function along with an introduction to exponential and quadratic functions. Special emphasis is placed on real-world applications of these functions.		
Special Note:	**Student enrollment in this course will be determined by administration.**		

3100	Geometry		Grades: 9-12
Credits:	1.0	Career Pathways:	AC, BFIT, EIT, HS, SH
Prerequisites:	Algebra I	Competencies:	Core Credit
Description:	Geometry works to improve critical thinking skills by covering topics such as compass and straightedge constructions, transformations, similarity, congruence, right triangles, measurement, and properties of circles. Students will work to apply appropriate definitions and theorems and will build up to formal proof by engaging in a cycle of conjecture, rough draft, and peer feedback.		

3150	Honors Geometry		Grades: 9-12
Credits:	1.0	Career Pathways:	AC, BFIT, EIT, HS, SH
Prerequisites:	"B" or higher in Algebra 1 is recommended	Competencies:	Core Credit
Description:	Honors Geometry works to improve critical thinking skills by covering topics such as compass and straightedge constructions, transformations, similarity, congruence, right triangles, measurement, and properties of circles. Students will work to apply appropriate definitions and theorems and will build up to formal proof by engaging in a cycle of conjecture, rough draft, and peer feedback. Honors Geometry investigates these concepts at a more rigorous pace than Geometry and includes additional topics of study in preparation for Honors Algebra 2 and Honors Pre-Calculus/Trigonometry.		
Special Note:	**Honors Algebra II can be completed concurrently with Honors Geometry**		

3201	Algebra with Financial Applications		Grades: 11-12
Credits:	1.0	Career Pathways:	AC, BFIT, EIT, HS, SH
Prerequisites:	Geometry or Algebra 1: Linear + Nonlinear Functions	Competencies:	Core Credit
Description:	This course leads students into a deeper understanding of how Algebra is applied to real world-situations involving financial and consumer topics such as investing, taxes, mortgages, insurance, and many other areas. Students will use topics from Algebra 1 and learn additional Algebra tools that will allow them to critically analyze the role of mathematics in the real-world.		
Special Note:	**Financial Algebra is suggested for students who are not college-bound.**		

3200	Algebra II		Grades: 9-12
Credits:	1.0	Career Pathways:	AC, BFIT, EIT, HS, SH
Prerequisites:	Geometry	Competencies:	Core Credit
Description:	This course extends the topics seen in Algebra I and Geometry. A review of linear algebra will be followed by an introduction to the complex number system, radicals, and solving/ graphing nonlinear functions. Throughout this course, students will develop critical thinking skills, and problem-solving techniques to prepare for future math courses and college entrance exams.		
Special Note:	**Algebra II is recommended for college-bound students.**		

3250	Honors Algebra II		Grades: 9-12
Credits:	1.0	Career Pathways:	AC, BFIT, EIT, HS, SH
Prerequisites:	"B" or higher in Geometry/Honors Geometry is recommended	Competencies:	Core Credit
Description:	This course extends the topics seen in Algebra I and Geometry. A review of linear algebra will be followed by an introduction to the complex number system, radicals, and solving/ graphing nonlinear functions. Throughout this course, students will develop critical thinking skills, and problem-solving techniques to prepare for future math courses and college entrance exams. Honors Algebra II examines the above topics at a more rigorous level than Algebra II while also including further supplementary topics in preparation for Honors Pre-Calculus and Trigonometry.		
Special Note:	**Honors Algebra II can be completed concurrently with Honors Geometry**		

3350	Honors Pre-Calculus/Trigonometry		Grades: 9-12
Credits:	1.0	Career Pathways:	AC, BFIT, EIT, HS, SH
Prerequisites:	"B" or higher in Honors Algebra II is recommended	Competencies:	Core Credit
Description:	This course seeks to prepare students for success in high-level math courses through the extended use of critical thinking, analysis, and procedural mastery. Pre-calculus concepts covered will include a survey of common functions (polynomial, exponential, logarithmic, and rational) and their graphs as well as an introduction to limits. Trigonometry concepts covered will include right triangle relationships, the use of trigonometry in modeling periodic behavior, graphing trigonometric functions, trigonometric identities, and solving trigonometric equations.		

3305	AP Calculus AB		Grades: 9-12
Credits:	1.0	Career Pathways:	AC, BFIT, EIT, HS, SH
Prerequisites:	Honors Precalculus/Trigonometry	Competencies:	Core Credit
Description:	AP Calculus is designed for students who have exhibited strong mathematical and problem-solving skills, particularly those with an interest in pursuing a college degree in a math-heavy field such as physics, engineering or the actuarial sciences. Calculus is the study of how functions change and accumulate. Calculus builds on, and formalizes the concepts learned in Precalculus and Trigonometry. Strong algebra skills provide the solid foundation needed for success in Calculus.		
Special Note:	**It is recommended that students enrolled in AP courses take the AP Exam. Students who score a 3, 4, or 5 on the AP Calculus AB Exam may receive college credit for Calculus I by their respective college or university.** **Students interested in taking the Calculus B/C exam should sign up for this course and conference with the teacher for adjusted course content.**		

3500	Statistics		Grades: 11-12
Credits:	1.0	Career Pathways:	AC, BFIT, EIT, HS, SH
Prerequisites:	Geometry	Competencies:	Core Credit
Description:	The purpose of Statistics is to allow students the opportunity to see how prevalent data and statistics is in real world applications. Students will get an introduction to statistics and then further discover how numbers drive much of their everyday life. Topics that will be explored include: data gathering and comparison, probability, relationships between multiple variables, and statistical inference. Students will exhibit their understanding of statistical concepts with multiple projects throughout the course, including a final project around a topic of their choice.		

3505	AP Statistics		Grades: 9-12
Credits:	1.0	Career Pathways:	AC, BFIT, EIT, HS, SH
Prerequisites:	"B" or higher in Algebra II is recommended	Competencies:	Core Credit
Description:	Exploring data, planning a statistical study, probability, and inferential reasoning are the four main components of this course. It is designed to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students taking this course will take the AP Statistics exam and possibly receive college credit for an introductory non-calculus-based statistics course		
Special Note:	**It is recommended that students enrolled in AP courses take the AP Exam. It is strongly recommended that students provide their own TI -84 CE graphing calculator, or equivalent, for AP Statistics. It will be used extensively throughout the course and is required for the AP Statistics exam.**		

MUSIC

8000	Concert Chorus/Chamber Singers		Grades: 9-12
Credits:	1.0	Career Pathways:	AC
Prerequisites:	Recommendation of MS/HS Choir Director	Competencies:	Arts and Humanities
Description:	All students registering for choir will select "Choir", and during the spring months will complete a Placement Evaluation to determine the best ensemble fit. Students who audition will be considered for Chamber Choir, a select ensemble focusing on advanced vocal technique, challenging repertoire, and smaller ensemble singing. Those who do not audition or are not selected will automatically be placed in Concert Choir, a dynamic ensemble dedicated to developing strong vocal fundamentals while exploring a diverse selection of choral literature. Both ensembles performm 3-5 concerts per year, participate in festivals and workshops, and offer leadership and solo opportunities.		

8100	Symphonic Winds / Wind Ensemble		Grades: 9-12
Credits:	1.0	Career Pathways:	AC
Prerequisites:	Recommendation of MS/HS Band Director	Competencies:	Arts and Humanities
Description:	All students registering for band will simply select "Band," and during the spring months will complete a Placement Evaluation to determine the best ensemble fit. Students who audition will be considered for Wind Ensemble, a premier group focusing on advanced musicianship and high-level repertoire. Those who do not audition or are not selected will automatically be placed in Symphonic Winds, a dynamic ensemble designed to refine fundamentals and explore a variety of engaging literature. Both ensembles perform 3-5 concerts per year, participate in festivals and workshops, and offer leadership and solo opportunities.		

8200	Introduction to Music Theory		Grades: 9-12
Credits:	1.0	Career Pathways:	AC
Prerequisites:	Recommendation of MS/HS Music Teacher	Competencies:	Arts and Humanities
Description:	Intro to Music Theory is designed for students interested in learning about the fundamental elements of music. This course will cover the properties of music, rules of music notation, rhythm and meter, note identification, clefs, scales, modes, key signatures, triads, and seventh chords. Aural skills will be developed and introduced through singing, dictation, improvisation, and interval/chord identification.		
Special Note:	**Students should be fluent in at least one clef (treble or bass).**		

8205	AP Music Theory		Grades: 9-12
Credits:	1.0	Career Pathways:	AC
Prerequisites:	Recommendation of MS/HS Music Teacher	Competencies:	Arts and Humanities
Description:	The AP Music Theory course enables highly motivated students to engage in college level work in the areas of reading and analyzing notated music and aural training. The ultimate goal of the AP Music Theory course is to develop a student's ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a score. The achievement of this goal may be best promoted by integrated approaches to the student's development of aural, sight-singing, written, compositional, and analytical skills. The work of the course will emphasize preparation for the advanced placement music theory examination in May.		
Special Note:	**Completion of Intro to Music Theory with approval from Music Theory instructor. It is recommended that students enrolled in AP courses take the AP Exam. AP Music Theory is weighted .5 for cumulative GPA calculation.**		

8310 Guitar Lab — Grades: 9-12

Credits:	0.5	Career Pathways:	AC
Prerequisites:	None	Competencies:	Arts and Humanities

Description: Guitar Lab is designed for students at all levels of guitar playing, from novice on up. Students will receive guidance in playing guitar based on ability. Concepts covered will include note reading, tab reading, basic guitar mechanics/maintenance, and chord reading. Students will have a big opportunity to select music and styles that interests them with instructor recommendation. All students will perform a final recital as part of this course.

Special Note: **A course fee of $20.00 will be charged for student method books and guitar maintenance.**

8360 Piano Lab — Grades: 9-12

Credits:	0.5	Career Pathways:	AC
Prerequisites:	None	Competencies:	Arts and Humanities

Description: Piano Lab is designed for students at all levels of piano playing, from the novice on up. Students will receive a crash course in fundamentals and then receive individualized lessons based on ability. Concepts include note reading, lead sheet reading, rhythmic reading, elements of piano technique, scales, arpeggios, block chords, classical songs, and basic music theory.

Special Note: **A course fee of $20.00 will be charged for student method books and keyboard maintenance.**

8400 Modern Band I — Grades: 9-12

Credits:	0.5	Career Pathways:	AC
Prerequisites:	None	Competencies:	Arts and Humanities

Description: This course introduces the skills necessary to play electric guitar, acoustic guitar, electric bass, keyboard, drums, vocals, and relevant music technology. This course examines a variety of contemporary musical styles including, but not limited to, pop, rock, reggae, hip-hop, and blues. The course fosters peer-to-peer development in the rock band setting while encouraging each band to play as a single unit. Musical performance is a huge part of this class. No previous musical experience is necessary but is certainly helpful.

8410 Modern Band II — Grades: 9-12

Credits:	0.5	Career Pathways:	AC
Prerequisites:	None	Competencies:	Arts and Humanities

Description: This course takes your music-making to the next level! In this advanced course, you'll collaborate in smaller groups, giving you more creative freedom to develop your sound, refine your skills, and experiment with songwriting, arranging, and live performance. Whether you're rocking out on guitar, bass, drums, keys, or vocals, you'll push beyond the basics to explore more complex techniques, genres, and stage presence. Expect hands-on experience with recording, mixing, and even some improvisation. If you've completed Modern Band 1 or passed an audition, get ready to level up your musicianship and bring your ideas to life in a band setting!

8320 Music in Film — Grades: 9-12

Credits:	0.5	Career Pathways:	AC
Prerequisites:	None	Competencies:	Arts and Humanities

Description: Music in Film explores the purpose and history of music in association with the motion picture industry. The material will include early Black & White "silent" films through films presented in theatres today that use original scores and classical masterpieces to evoke emotion. Students will score and produce music for a film of their creation, learn about the use of music in character identification, synchronizing techniques, and the dubbing process for sound effects.

Special Note: **This course will be offered in odd graduation years (2027).**

8310 Guitar Lab — Grades: 9-12

Credits:	0.5	Career Pathways:	AC
Prerequisites:	None	Competencies:	Arts and Humanities

Description: Guitar Lab is designed for students at all levels of guitar playing, from novice on up. Students will receive guidance in playing guitar based on ability. Concepts covered will include note reading, tab reading, basic guitar mechanics/maintenance, and chord reading. Students will have a big opportunity to select music and styles that interests them with instructor recommendation. All students will perform a final recital as part of this course.

Special Note: **A course fee of $20.00 will be charged for student method books and guitar maintenance.**

8340 Lighting and Sound Design — Grades: 9-12

Credits:	0.5	Career Pathways:	AC
Prerequisites:	None	Competencies:	Arts and Humanities

Description: Lighting and Sound Design is a course for students interested in the technical side of musical theatre. Students will learn about modern lighting and sound equipment, including but not limited to light consoles, dimmer racks, lighting fixtures, color theory, sound boards, wiring, and microphone selection. In addition students will learn basic stage direction techniques and terminology. Students will use learned skills to develop a final product of designing the lighting and sound for an act of a musical.

Special Note: **This course will be offered in even graduation years (2028)**

8350 Video Game Music & Interactive Sound Design — Grades: 9-12

Credits:	0.5	Career Pathways:	AC
Prerequisites:	None	Competencies:	Arts and Humanities

Description: This course introduces students to the creative and technical foundations of composing music and designing sound for video games and interactive media. Students explore how music supports storytelling, emotion, and player experience through hands-on projects using digital audio workstations and game-inspired composition tools. Topics include melody and harmony in game music, looping and adaptive sound structures, sound effects (Foley), and basic audio production techniques. No prior music experience is required.

8360 Piano Lab — Grades: 9-12

Credits:	0.5	Career Pathways:	AC
Prerequisites:	None	Competencies:	Arts and Humanities

Description: Piano Lab is designed for students at all levels of piano playing, from the novice on up. Students will receive a crash course in fundamentals and then receive individualized lessons based on ability. Concepts include note reading, lead sheet reading, rhythmic reading, elements of piano technique, scales, arpeggios, block chords, classical songs, and basic music theory.

Special Note: **A course fee of $20.00 will be charged for student method books and keyboard maintenance.**

8370	Music Technology Lab I		Grades: 9-12
Credits:	0.5	Career Pathways:	AC
Prerequisites:	None	Competencies:	Arts and Humanities, Project-Based

Description:

Music Technology Lab 1 builds understanding of fundamental concepts involved with recording, processing, editing, and performing music. Participants will learn fundamental properties of sound, how to setup and troubleshoot basic audio equipment, how to compose music with loops, how to write music in digital notation programs, how to evaluate the effect of a room's acoustics, and how to edit and adjust live sound. The course will culminate in a final project where students write, produce, and perform their own music in different venues.

EXTRACURRICULAR MUSIC PROGRAMS AND ACTIVITIES

These opportunities are coordinated by the Music Department. Speak with Mr. Noble or Mr. Wilson for more information.

	Chamber Ensembles
Description:	Open to members of the Concert Band and/or Marching Band. Students not enrolled in these ensembles will be considered on a case-by-case basis and must get permission from the band director. These are primarily student-led ensembles with instructor supervision.

	Color Guard
Description:	Color guard members are expected to perform in both marching band and indoor. Students who only wish to participate in one season per year will be considered on a case by case basis.

	Marching Band
Description:	Participation is open to all band members. Interested students not in the band are considered on a case-by-case basis and must get permission from the band director.

	Big Spring Productions (Spring Musical)
Description:	Participation is open to all students. Auditions are required due to casting requirements.

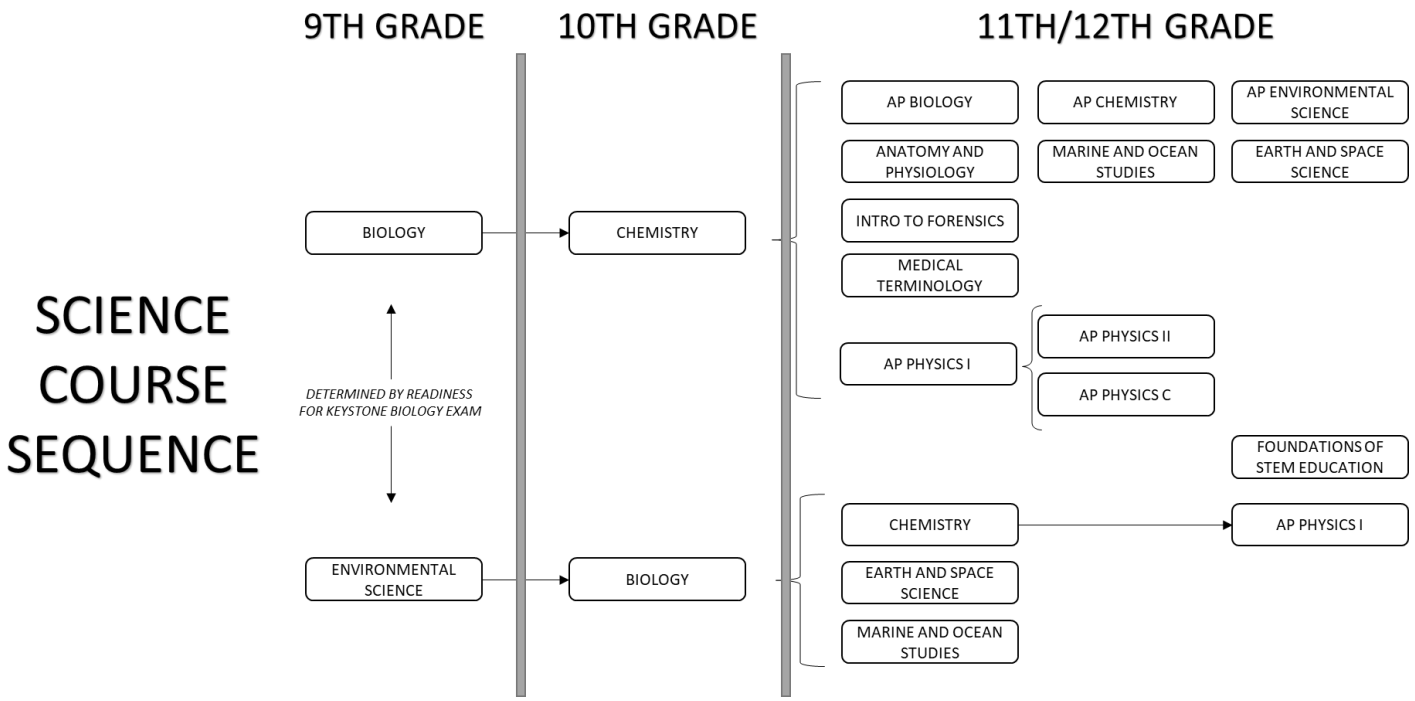
	Percussion Ensemble
Description:	Open to members of the Concert Band and/or Marching Band. Students not enrolled in these ensembles will be considered on a case-by-case basis and must get permission from the band director.

	Pit Band
Description:	Open to members of the Concert Band and/or Marching Band. Students not enrolled in these ensembles will be considered on a case-by-case basis and must get permission from the band director.

	Twilight Jazz Ensemble
Description:	Open to members in Concert Band and/or Marching Band and is dependent on required instrumentation of the ensembles.

SCIENCE

SY 26-27



2300 Environmental Science — Grades: 9

Credits:	1.0	Career Pathways:	SH
Prerequisites:	None	Competencies:	Lab Science

Description: This course examines the interactions between organisms and their environment and the relationship between ecological processes and patterns of distribution and abundance of organisms. This course is designed to give students an introductory understanding of how ecological systems and ecological principles apply to natural ecosystems and the human interface with those systems. It will include topics such as global biogeochemical cycles, the hydrologic cycle, and the carbon cycle; trophic levels in ecosystems; competition, predation, parasitism, and mutualism; population dynamics, agriculture, forestry and biodiversity. Laboratory/field sessions emphasize ecological principles and techniques.

Special Note: **Students will take Environmental Science in Grade 9 based on their readiness for the Keystone Biology Exam. If so, they will take Biology in Grade 10.**

2000 Biology — Grades: 9

Credits:	1.0	Career Pathways:	**This course is required for graduation; all students must successfully pass this course.**
Prerequisites:	None	Competencies:	

Description: The emphasis for this biology course is the study of living things and their relationships with each other as well as their environment. This course will be covering the biology Keystone state standards. Units include: characteristics of living things, biochemistry, cell transport, bioenergetics, cell cycle, DNA technologies, protein synthesis, genetics and evolution. Students will attempt the Keystone Biology exam at the conclusion of this course.

2005	AP Biology		Grades: 11-12
Credits:	1.0	Career Pathways:	SH
Prerequisites:	Biology + Chemistry	Competencies:	Core Credit
Description:	This course is designed to offer students a solid foundation in introductory college-level biology. By structuring the course around the four big ideas, enduring understandings, and science practices, students develop an appreciation for the study of life and help them identify and understand unifying principles within a diversified biological world. Topics to be covered include molecular systems, biological energy, living systems, evolution, diversity and biological system interactions.		
Special Note:	**It is recommended Biology and Chemistry final averages be 85 percent and above. It is also recommended that students enrolled in AP courses take the AP Exam. AP Biology is weighted .5 for cumulative GPA calculation.**		

2100	Chemistry		Grades: 10-12
Credits:	1.0	Career Pathways:	SH
Prerequisites:	Algebra I + Biology	Competencies:	Core Credit
Description:	This course focuses on the study of matter; its composition, properties, and structures; and the changes that matter undergoes. Specific topics also include chemical names and formulas, chemical equations, phases of matter, bonding, types of chemical reactions, solutions, and acid/base chemistry. Considerable lab work is required in this course.		

2105	AP Chemistry		Grades: 11-12
Credits:	1.0	Career Pathways:	SH
Prerequisites:	Algebra II + Chemistry	Competencies:	Core Credit
Description:	This course is taught from a college textbook and includes topics found in a first-year college chemistry course. It is assumed that students have basic chemistry knowledge. Topics from Chemistry I will be discussed in detail and additional topics such as nuclear and organic chemistry, kinetics, equilibrium, and thermodynamics will be introduced. Emphasis is placed on solving a variety of math problems relating to chemistry. Considerable lab work is required.		
Special Note:	**This course is offered once a year. It is suggested that students enrolled in AP courses take the AP Exam. AP Chemistry is weighted .5 for cumulative GPA calculation.**		

2200	AP Physics I: Algebra-Based		Grades: 10-12
Credits:	1.0	Career Pathways:	EIT, SH
Prerequisites:	Algebra I + Chemistry	Competencies:	Core Credit
Description:	This science deals with the interaction between matter and energy. It will include a study of motion and forces, energy, rotational motion, momentum, and fluids. Various laboratory exercises will be included to develop an appreciation of how the scientist works, as well as what scientists have discovered. Problem solving is emphasized.		
Special Note:	**This course is very similar to Physics I that has run for many years. This course is slightly different but the rigor will be the same. It is suggested that students enrolled in AP courses take the AP Exam. AP Physics I is weighted .5 for cumulative GPA calculation.** **Chemistry and AP Physics I may be taken concurrently**		

2250	AP Physics II: Algebra-Based		Grades: 11-12
Credits:	1.0	Career Pathways:	EIT, SH
Prerequisites:	AP Physics I	Competencies:	Core Credit
Description:	This course will serve as an introduction to thermodynamics, nuclear physics, optics, sound, electric fields, and magnetism. Problem solving will be stressed. Various labs will be incorporated into the course work.		
Special Note:	**This course is very similar to Physics II that has run for many years. This course is slightly different but the rigor will be the same. It is suggested that students enrolled in AP courses take the AP Exam. AP Physics I is weighted .5 for cumulative GPA calculation.**		

2205	AP Physics C: Mechanics		Grades: 11-12
Credits:	1.0	Career Pathways:	EIT, SH
Prerequisites:	AP Physics I + PreCalc/Trig	Competencies:	Core Credit
Description:	The course is designed to be similar to a calculus-based physics class taught at the college level. Students majoring in the sciences, mathematics, and engineering usually take this course. The course is more intensive and analytical than the regular physics course. Emphasis is placed on solving a variety of challenging problems, some requiring calculus. The subject matter of the course is a rigorous treatment of kinematics, dynamics, and other topics in mechanics		
Special Note:	**AP Physics II and AP Physics C may be taken concurrently.** **It is suggested that students enrolled in AP courses take the AP Exam. AP Physics C- Mechanics is weighted .5 for cumulative GPA calculation.**		

2305	AP Environmental Science		Grades: 11-12
Credits:	1.0	Career Pathways:	SH
Prerequisites:	Biology + Chemistry	Competencies:	Core Credit
Description:	AP Environmental Science is an applied science course. Therefore, it is designed to provide students with the scientific principles, concepts, and methodologies of the natural world and draws from various scientific disciplines. This course includes methods for analyzing and interpreting information and experimental data, including mathematical calculations. This course will include the following topics: ecosystems, biodiversity, populations, earth systems and resources, land and water use, energy resource and consumption, atmospheric pollution, aquatic and terrestrial pollution, and global change.		
Special Note:	**It is recommended that students enrolled in AP courses take the AP Exam. AP Environmental Science is weighted .5 for cumulative GPA calculation**		

2400	Anatomy and Physiology		Grades: 11-12
Credits:	1.0	Career Pathways:	SH
Prerequisites:	Biology + Chemistry	Competencies:	Core Credit
Description:	The anatomy and physiology course is an introduction to the specialized terms, basic concepts and principles which lead to an understanding of the human body and how it functions correctly. Units included in the Anatomy and Physiology course may include: introduction to terminology, biochemistry, cells, tissues, skin and the systems of the body.		

2420 Medical Terminology — Grades: 11-12

Credits:	0.5	Career Pathways:	HS, SH
Prerequisites:	None	Competencies:	Research Writing

Description: This course is a systematic approach to developing the extensive medical vocabulary used in health care occupations. Through a study of root words, prefixes and suffixes, the course will provide the ability to identify, build and recognize terminology used to describe the human body as well as pathological processes, procedures, conditions and diseases that may affect it. This is a beginner level course for students interested in the healthcare or medical fields. No previous knowledge of these topics is necessary.

2430 Intro to Forensics — Grades: 11-12

Credits:	0.5	Career Pathways:	SH
Prerequisites:	Biology + Chemistry	Competencies:	Core Credit

Description: This course will explore the aspects of science which relate to forensics. The course will also feature careers available in this fascinating field of study. Topics may include: crime scene processing, collection of evidence, visualizing, lifting and rolling fingerprints, fingerprint analysis, footwear and tire impressions, fiber analysis, glass analysis, hair analysis, drug testing and analysis, testing of body fluids and blood stain pattern analysis.

2460 Marine and Ocean Studies — Grades: 11-12

Credits:	1.0	Career Pathways:	SH
Prerequisites:	Biology + (Chem, Physics, or Envi Sci)	Competencies:	Core Credit

Description: This course focuses on the physical and biological properties of Earth's marine environments. Topics include coastal ecology, pollution, currents and tides, navigation, maritime history, seafloor geology, life zone studies, identification of marine organisms and their characteristics. Use of the Internet and data collection equipment will be utilized extensively during this course.

2490 Earth and Space Science — Grades: 11-12

Credits:	1.0	Career Pathways:	SH
Prerequisites:	Biology + (Chem, Physics, or Envi Sci)	Competencies:	Core Credit

Description: This class focuses on the processes that have created both our planet and the solar system. This course will cover topics such as meteorology, geology, hydrology, soil, and astronomy. Units covered during the course include: History of Earth, Earth's Systems, Weather and Climate, Human Sustainability, and Space Systems.

2440 Foundations of STEM Education — Grades: 10-12

Credits:	0.5	Career Pathways:	SH
Prerequisites:	Biology	Competencies:	Career/Professional Skills

Description: This class focuses on the design, planning, and delivery of STEM content to elementary school students. Topics will include: lesson planning, classroom management, learning and instruction styles, project/problem based learning, and STEM education. STEM topics will include: robotics, drones, environmental science, chemical reactions, and forces and motion.

SOCIAL STUDIES

1000	American Studies		Grades: 9
Credits:	1.0	Career Pathways:	**This course is required for graduation; all students must successfully pass this course.**
Prerequisites:	None	Competencies:	
Description:	This core course involves the study of American history and culture (circa 1890-present) through units including but not limited to the following themes: discrimination, war and change, technological developments, economic transformation and globalization, cultural diversity, and international diplomacy. Primary source texts will be utilized, requiring students to learn and practice effective historical thinking and analysis skills to interpret text, then utilizing their knowledge to research and examine how political, social, economic, and cultural changes and conflicts had an impact on the United States during this period. Comparisons between past historical events and contemporary America will be examined. Students will be required to successfully demonstrate their learning through written assignments and assessments including a culminating oral history project. Throughout the course, students will develop a greater understanding of the rights and responsibilities of American citizenship.		

1005	AP US History		Grades: 11-12
Credits:	1.0	Career Pathways:	AC, BFIT, EIT, HS, SH
Prerequisites:	None	Competencies:	Core Credit
Description:	AP U.S. History is a challenging college level course that is taken nationwide in preparation for the Advanced Placement test in May. Students who are successful on the AP test will earn college credit. Exceptional reading and writing skills, as well as willingness to devote considerable time to homework and study are necessary for success. This course is designed to enhance skills in assessing historical materials, interpreting problems and weighing evidence in order to write persuasive and credible essays.		
Special Note:	**It is recommended that students enrolled in AP courses take the AP Exam. This course is weighted .5 for cumulative GPA calculation.**		

1100	Government		Grades: 10
Credits:	1.0	Career Pathways:	**All students must successfully pass a Government course to graduate.**
Prerequisites:	None	Competencies:	
Description:	In this core course, students will explore the origins of American government, its organization and functionality, and the degree to which the American government is involved in economic, religious, and social issues and reforms. Emphasis will be placed on the relationship between government and economic issues. Examination of the federal, state, and local levels of government will be conducted throughout the course. Each unit will allow the student to research and analyze the various components of government. Several student-driven substantial projects will be successfully completed in support of the curriculum.		

1105	AP US Government and Politics		Grades: 10
Credits:	1.0	Career Pathways:	**All students must successfully pass a Government course to graduate.**
Prerequisites:	Teacher recommendation suggested	Competencies:	
Description:	This course provides an analytical perspective on government and politics in the United States through the study of general concepts used to interpret US politics and analysis of specific examples. It requires familiarity with various institutions, groups, beliefs and ideas that constitute US politics: Our Government's Constitutional underpinnings, our cultural beliefs and behaviors regarding politics, political parties/interest groups/mass media, governmental institutions and policy, civil rights and civil liberties. Students are to take the AP exam associated with this course; successful completion of which may result in college credit or advanced placement or both.		
Special Note:	**It is recommended that students enrolled in AP courses take the AP Exam. This course is weighted .5 for cumulative GPA calculation.**		

1200	World Studies		Grades: 11-12
Credits:	1.0	Career Pathways:	AC, BFIT, EIT, HS, SH
Prerequisites:	None	Competencies:	Core Credit
Description:	This course focuses on political issues, economic developments, and culture of the world. Specific topics include geography, climate, history, and religion. Primary emphasis will be given to recent events and situations occurring around the globe and their impact on the rest of the world. Multiple geographic regions (including but not limited to: Europe, Latin America, Africa, the Middle East, and Asia) will be covered, focusing on not just their history, but perhaps more importantly its cultural development and current issues. Frequent comparisons between these areas and America will be examined.		

1205	AP World History: Modern		Grades: 11-12
Credits:	1.0	Career Pathways:	AC, BFIT, EIT, HS, SH
Prerequisites:	Honors Government recommended	Competencies:	Core Credit
Description:	AP World History is taught at a first-year college level and requires students to read, write, discuss, and analyze at an advanced level. The course will prepare students to take the AP examination with the possibility of earning college credit. Students will consider political, social, economic, and cultural developments in the period circa 1450-present. Additionally, students will develop proficiency in various historical thinking skills, through the use of primary and secondary source materials. Our studies will be supplemented with cultural and artistic learning opportunities.		
Special Note:	**It is recommended that students enrolled in AP courses take the AP Exam. This course is weighted .5 for cumulative GPA calculation.**		

1300	Law I		Grades: 10-12
Credits:	0.5	Career Pathways:	AC, BFIT, EIT, HS, SH
Prerequisites:	None	Competencies:	Core Credit
Description:	This elective provides an introduction to law and the American legal system. Focusing on the rights and responsibility of citizens in a democracy, Law I includes the study of: civil liberties, torts, family law, consumer law, school law and special topics relating to current events. Guest speakers and real-world learning experiences will be included when possible.		

1310	Law II		Grades: 11-12
Credits:	0.5	Career Pathways:	AC, BFIT, EIT, HS, SH
Prerequisites:	Law I	Competencies:	Core Credit
Description:	This elective course explores the American criminal justice system. Causes of crime, investigation strategies and techniques, the trial process (including jury selection, development of case strategy, questioning of witnesses, jury deliberation, and sentencing), corrections, juvenile justice, and hate crimes. Consideration of the law's role in the media will be interpreted and critiqued throughout the course. Students will demonstrate their understanding through an intense mock trial simulation and numerous real-world activities, requiring students to demonstrate strong written and verbal communication skills		
Special Note:	**This course will only be offered during years that end with an odd number (2027, 2029, etc.). Real case studies are an integral part of our class material. Students are expected to treat case studies and sensitive subject matter with maturity and respect.**		

1340	Sports in Society		Grades: 10-12
Credits:	0.5	Career Pathways:	HS, BFIT
Prerequisites:	None	Competencies:	Career/Professional Skills
Description:	This quarter course will identify and analyze how sports and athletics have shaped our society and culture. Students with an interest in social studies, sports, business, equality and cultural change would enjoy this course. Major topic areas will include: Why People Like to Play and Watch, Globalization, Nationalism and Politics in Sports, Race and Multiculturalism, Equality in Sports, The Role of the Fan, the Mega(Business) of Sports and Sports Technology. The course will include a student-driven large-scale project on current issues facing sports.		

1350	Geography		Grades: 9-12
Credits:	0.5	Career Pathways:	AC, BFIT, EIT, HS, SH
Prerequisites:	None	Competencies:	Core Credit
Description:	Students will be developing spatial awareness by analyzing maps, charts, and graphs to understand the interaction between humans and their environment. An analysis of how the earth naturally functions is followed by what it takes for human society to function, including infrastructure and use of resources. The two are then connected and a careful consideration of how humans impact the planet and how this can be improved.		
Special Note:	**This course will only be offered during years that end with an odd number (2027, 2029, etc.).**		

1360	Economics		Grades: 9-12
Credits:	0.5	Career Pathways:	AC, BFIT, EIT, HS, SH
Prerequisites:	None	Competencies:	Core Credit
Description:	This is a recommended course for students enrolled in the Business Pathway. This course is designed to give students an understanding of our economic system. The areas of emphasis include the concepts of competition, supply and demand, inflation and deflation. The role of the consumer is emphasized. The course includes practical application by analyzing business decisions and investing, and comparison of economic goals and systems and investing.		
Special Note:	**This course will only be offered during years that end with an even number (2028, 2030, etc.).**		

1370	Military History I		Grades: 9-12
Credits:	0.5	Career Pathways:	AC, BFIT, EIT, HS, SH
Prerequisites:	None	Competencies:	Core Credit
Description:	This course examines America's military history beginning with the Indian Wars of the early 17th century colonial period, through the major wars and conflicts during the 18th and 19th centuries. The course analyzes the evolution, and development of US military strategy, operations, and tactics; examines the changes and improvements in military organization and command and control, and operational planning and logistics support; and assesses the major technological advances in America's weapons, communications, and intelligence gathering capabilities. The course examines America's wars and major conflicts, including the War of Independence, Mexican War, Civil War and Spanish-American War.		

1380	Military History II		Grades: 10-12
Credits:	0.5	Career Pathways:	AC, BFIT, EIT, HS, SH
Prerequisites:	None	Competencies:	Core Credit
Description:	This advanced course will follow the course of the United States military from the dawn of the 20th Century up through the Post-Cold War world. The course will pick up where Military History I left off by exploring the parallel course that both the nation and military share as the United States emerges as a superpower. Students will use oral history and research skills to help develop a collection of veterans' memoirs for the historical societies. There will be several required readings as well as guest speakers (veterans and re-enactors) and field trips to round out the course of study.		
Special Note:	**This course will only be offered during years that end with an even number (2028, 2030, etc.).**		

1390	Sociology		Grades: 11-12
Credits:	0.5	Career Pathways:	AC, BFIT, EIT, HS, SH
Prerequisites:	None	Competencies:	Core Credit
Description:	This elective course studies the dynamics of group relationships with American society. Major areas of concentration include sociological research and theory, cultural diversity and conformity, social structure and the socialization process, social control and deviance, social stratification, as well as racial, ethnic and gender inequality. Students will have the opportunity to develop their own sociological study based on a real-world problem.		

1405	AP Psychology		Grades: 11-12
Credits:	1.0	Career Pathways:	BFIT, HS, SH
Prerequisites:	Prior Honors/AP Experience recommended	Competencies:	Core Credit
Description:	The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. The course ultimately focuses on preparing the student for success on the AP Exam.		
Special Note:	**It is recommended that students enrolled in AP courses take the AP Exam. This course is weighted .5 for cumulative GPA calculation. Course is approved for Lackawanna College dual enrollment.**		

1330	Pennsylvania History		Grades: 9-12
Credits:	0.5	Career Pathways:	AC, BFIT, EIT, HS, SH
Prerequisites:	None	Competencies:	Core Credit
Description:	This half-credit elective explores the Keystone State's past and its place within the greater narrative of United States history. Students will study the commonwealth's varied geography, pre-colonial through modern history, examine the role of industry, and consider how various groups have shaped Pennsylvania's rich cultural heritage. The course will include an oral history research project, allowing students to investigate a topic of personal interest.		

Cumberland Perry Area Career and Technical Center (CPACTC) serves students from fourteen high schools in Cumberland, Perry, York, and Adams County. CPACTC is an extension of your high school, offering comprehensive instruction in 22 career and technical programs. Students attend CPACTC for half of their school day, taking courses in their technical program plus social studies. Students attend their sending high school for English, Science, Mathematics, Physical Education, and other graduation requirements.

The full scope of skills and competencies in the technical programs at CPACTC are taught over a three-year course sequence. However, students may attend CPACTC for one or two years to support their career goals.

CPACTC students are expected to be responsible and respectful, demonstrating safe work habits at all times. Students must be able to understand and comply with all school rules and procedures.

CPACTC has a competitive application process. Students are admitted based on their application score and school district enrollment quotas. See your sending school counselor for an application. Clicking on the program names below will connect you to the program web page at www.CPACTC.org.

2026-2027 CAREER PATHWAYS AND PROGRAMS AT CPACTC

CONSTRUCTION AND MAINTENANCE Carpentry Electrical Construction and Maintenance Heating/Ventilation/Air Conditioning Horticulture/Landscaping Masonry	**ARTS & TECHNOLOGY** Advertising Art & Design Computer Networking Computer Programming
MANUFACTURING Automation, Robotics & Electronics Precision Machine Technology Welding Technology	**HEALTH SCIENCES** Dental Assistant Nurse/Nursing Assistant Emerging Health Professionals
HUMAN SERVICES AND HOSPITALITY Cosmetology Criminal Justice Culinary Arts Early Childhood Education	**TRANSPORTATION & LOGISTICS** Auto Collision Technology Automotive Technology Diesel Technology Logistics & Warehouse Management

Additional information on curriculum, college credit opportunities, and uniform requirements is available online at https://www.cpatech.org/.

ADVANTAGES FOR STUDENTS ATTENDING CPACTC

Earn College Credit - College in the High School Program

The College in High School (CHS) program allows high school students to take college classes while enrolled at CPACTC during the regular school day. Students who are eligible to take College in the High School courses can earn credits toward high school graduation and credits towards a college degree at the same time. Harrisburg Area Community College or Pennsylvania College of Technology assesses and approves CPACTC instructors to teach these courses. HACC or Penn College awards college credits to students who complete the courses with a passing grade and all credits are eligible to transfer to other colleges and universities depending on agreements with those schools. For College in the High School course details go to https://www.cpatech.org/.

Earn College Credit - Program of Study (POS) College Articulation Agreements

Twenty programs at CPACTS are recognized by the Pennsylvania Department of Education as a "Program of Study". Students in these programs have the opportunity to earn college credit at various post-secondary schools in Pennsylvania provided they meet the following requirements:

1. Graduate from high school
2. Earn at least 2.5 GPA in your program courses
3. Achieve a score of "Advanced" or "Competent" on the NOCTI exam
4. Successfully complete all tasks on the Program of Study task list – requires all three years of a program.

Suggested Course Sequence by the Pennsylvania Department of Education for Programs of Study for Students Enrolled in Career and Technical Programs:

Grade 9	Grade 10	Grade 11	Grade 12
English	English	English	English
Earth Science	Biology	Chemistry	Elective
Social Studies	Social Studies	Social Studies	Social Studies
Algebra I or Pre-Algebra	Geometry or Algebra I	Algebra II or Geometry	Additional Math
Physical Education	Physical Education	Physical Education	Physical Education
Electives	**CPACTC Program**	**CPACTC Program**	**CPACTC Program**

Additional information on Program of Study and which colleges are participating can be found at https://www.cpatech.org/.

Earn a Pennsylvania Skills Certificate

The Pennsylvania Skills Certificate was created by the PA Department of Education to recognize career and technical education students who have shown advanced skill achievement in their career and technical program. Students must complete 50% of the program and be seniors to be eligible to earn a PA Skills Certificate.

To earn the Pennsylvania Skills Certificate, students must achieve at the advanced level on the end of program NOCTI test. The test consists of two parts – written and performance. The written test covers factual knowledge, technical information, understanding of academic principals and problem solving related to the technical field. The performance test allows students to demonstrate their skills to industry professionals who proctor the exam.

Earn Industry-Recognized Certifications

CPACTC have the opportunity to earn industry certifications which are specific to their career program. Examples include PA State Inspection certification for Auto Tech students and Certified Nursing Assistant certification for nursing students. A complete list of certifications is listed under each program description. During the 2017-2018 school year, over 300 CPACTC students earned at least one industry certification.

CONSTRUCTION AND MAINTENANCE

CARPENTRY

COMPETENCIES: CAREER/PROFESSIONAL SKILLS

There are two types of carpentry work: rough and finish. Rough carpentry includes framing, boarding, sheathing, bracing, roofing, and studding; finish carpentry includes the installation of finished flooring, stair work, siding, trim, wallboards, windows, and hardware. Students in the **Carpentry** program will learn the basics of both rough and finish carpentry, including such areas as blueprint reading, using power and hand tools, framing techniques, installing trim and hardware, estimating, and identifying materials. Many of these skills are developed through live work projects performed throughout the school. Safety instruction is emphasized throughout the program.

Potential Career Pathways	Industry Certifications	College Credits
Carpenters - $46,080.00 Construction Laborers - $37,920.00* Construction Managers - $95,260* Supervisors-Construction & Ext. Workers - $68,310* Construction and Building Inspectors - $57,110 Cabinet Makers & Bench Carpenters - $36,410	OSHA-10 ASHI Basic First Aid ASHI CPR & AED JLG Aerial Work Platform JLG Material Handler JLG Scissor Lift PA Builders Association	(Visit our website to view all college articulation partners)

2020 PA Dept. of Labor In Demand Occupation List *2020 PA Dept. of Labor High Priority Occupation* **ONET Online Bright Outlook Occupation 2020 (Median Wage as of 2020)*

ELECTRICAL CONSTRUCTION AND MAINTENANCE

COMPETENCIES: CAREER/PROFESSIONAL SKILLS

Students in the **Electrical Construction & Maintenance** program receive classroom training and practical experience in the installation of circuits, switches, conduits, circuit breakers, and other electrical devices; instruction includes the proper use and care of hand tools and equipment used to install electrical systems on a construction site. Students learn to connect and disconnect electrical equipment and determine proper installation and operation of electrical work, apply procedures used in interior circuits and outlets, and troubleshoot electrical malfunctions. Special emphasis is placed on the National Electric Code Specifications used in residential, commercial, and industrial electrical construction projects.

Potential Career Pathways	Industry Certifications	College Credits
Electrical Engineers - $98,530* Electrical Power-Line Installers & Repairers - $81,380.00 Supervisors-Construction & Ext. Workers - $68,310* Electricians - $57,300.00* Security and Fire Alarm Installer - $48,970*	OSHA-10 JLG Material Handler NJATC 1st Year Apprenticeship IEC 1st Year Apprenticeship PA Builder's Assoc. Skills Cert	(Visit our website to view all college articulation partners)

2020 PA Dept. of Labor In Demand Occupation List *2020 PA Dept. of Labor High Priority Occupation* **ONET Online Bright Outlook Occupation 2020 (Median Wage as of 2020)*

HEATING, VENTILATION, AIR CONDITIONING, AND REFRIGERATION

COMPETENCIES: CAREER/PROFESSIONAL SKILLS

The Heating, Ventilation and Air Conditioning (HVAC) program provides the fundamentals of installation, repair, and maintenance of equipment and accessory parts used for heating, air conditioning, and cooling systems. Students learn basic electricity as it applies to the electrical power source and activities used in air conditioning, heating, and refrigeration units. Various equipment and training simulators are used to teach basic refrigeration in chilling and freezing systems. They will learn to solder and braze while developing skills required for the installation, repair, and maintenance of air conditioning, heating, and refrigeration units. Instruction includes: connecting ducts, refrigerant lines, and electrical hookups to power sources; the removal and/or replacement of parts by using torches, electrical meters, testing equipment, gauges, and hand tools; diagnosing unit breakdowns; disassembling and reassembling systems; making adjustments to ensure efficient operations; and reading basic blueprints and writing diagrams. The program also covers many of the basic skills needed in the plumbing trade, providing these students interested an opportunity to pursue a career in plumbing.

Potential Career Pathways	Industry Certifications	College Credits
Energy Engineers - $99,040 HVAC Mechanics & Installers - $51,880.00 Geothermal Technicians - $39,830	OSHA 10 EPA 608 Pa Builder's Association Skills Cert.	Offered Thru HACC HVAC 100-EPA Refrigeration HVAC 101-Basic Elec. Func. HVAC 103-Fund. Of A/C HVAC 109-Heating Systems (Visit our website to view all college articulation partners)

2020 PA Dept. of Labor In Demand Occupation List *2020 PA Dept. of Labor High Priority Occupation* **ONET Online Bright Outlook Occupation 2020 (Median Wage as of 2020)*

HORTICULTURE AND LANDSCAPING

COMPETENCIES: ARTS AND HUMANITIES, CAREER/PROFESSIONAL SKILLS

There are several career pathways in the **Horticulture** program**.** Greenhouse managers, soil and plant scientists, groundskeepers, and landscape designers are just a few of the occupations in this wide-ranging field. Students spend time in the greenhouse, classroom, and outdoors as they learn identification, botany, proper plant care, and other factors impacting care and growth of plant materials. This knowledge is then utilized in the design and preparation of decorative and functional sites. Topics include sustainable practices such as hydroponics and environmental issues facing today's society, design and installation of plants, ponds, and hardscaping, laws and zoning regulations, business ethics and practices, safety and equipment operation, floral design, turf management and irrigation, and other related areas. We also offer college in the high school along with certifications for OSHA. Come explore the opportunity waiting for you!

Potential Career Pathways	Industry Certifications	College Credits
Farmworkers/Laborer (Greenhouse) - $32,070	OSHA 10	Offered thru Pennsylvania College of Technology
Landscaper/Groundskeeper - $31,600	PA Certified Horticulturalist Assoc.	
Supervisor-Landscapers and Groundskeepers - $49,370*	Pesticide Certification	HORT 101-Intro. Ornamental Horticulture
Pesticide Handler, Sprayer, Applicator - $35,840		HORT 113-Ornamental Plants
Grounds Maintenance Workers - $32,090*		
Soil and Plant Scientist - $63,200		(Visit our website to view all college articulation partners)

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MASONRY

COMPETENCIES: CAREER/PROFESSIONAL SKILLS

The **Masonry** program provides the fundamental skills needed to work with bricks, blocks, and concrete. Students learn brick and block laying; mortar mixing; scaffold construction; building construction; the proper use of masonry tools; and how to read blueprints to determine an accurate brick layout following the builder's specifications. Additionally, students check alignment and positioning of bricks by using a dry course; check for horizontal or vertical straightness by using a mason's level; gauge lines, and plumb lines; and use story gauge rods to check work. Special emphasis is placed on mortar mixing and proper spreading of mortar to ensure accurate spacing of the joints. Students learn the safe use and proper care of hand tools such as trowels, jointers, rules, squares, brick hammer, mason levels, and gauge lines.

Potential Career Pathways	Industry Certifications	College Credits
Brickmason and Blockmason - $55,320	OSHA 10	Offered thru Pennsylvania College of Technology
Cement Masons/Concrete Finishers - $54,910	JLG Material Handler	
Tile and Stone Setters - $54,240	PA Builder's Assoc. Skills Cert.	BCT 234-Masonry Principles-PCT
Helpers-Brick/Block/Stonemason - $46,130		
		(Visit our website to view all college articulation partners)

2020 PA Dept. of Labor In Demand Occupation List *2020 PA Dept. of Labor High Priority Occupation* **ONET Online Bright Outlook Occupation 2020 (Median Wage as of 2020)*

ARTS AND TECHNOLOGY

ADVERTISING, ART, AND DESIGN

COMPETENCIES: ARTS AND HUMANITIES, CAREER/PROFESSIONAL SKILLS

A large percentage of merchandising and advertising for modern promotion is done through the medium of **Advertising Art and Design**. The purpose of this course is to help prepare students for an entry-level job or to prepare the student to advance into post-secondary training at colleges and art schools. Throughout the program, students will maintain a portfolio to promote their work and talent when they graduate. The major emphasis is on the basic principles of design: color, development of skills, exploration of media, and Advertising Art and Design practices. Special emphasis is placed on manual illustration and layout skills in the area of art production, technical features of design, layout and composition, and color theory. Students will prepare graphic and advertising projects from the idea stage through to pre-press using the current Adobe Creative Suite software.

Potential Career Pathways	Industry Certifications	College Credits
Graphic Designers - $49,150 Desktop Publishers - $45,390 Special Effects Artists and Animators - $75,270 Commercial and Industrial Designer - $68,890	Adobe Photoshop Adobe InDesign Adobe Illustration	(Visit our website to view all college articulation partners)

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COMPUTER NETWORKING

COMPETENCIES: CAREER/PROFESSIONAL SKILLS

The **Computer Networking** program is designed to give students a broad background in the fundamentals of designing, installing, and maintaining a computer network. Specifically, students will cover the following topics: Computer hardware, troubleshooting, repair, and maintenance, operating systems and software, network technologies, network media and topologies, network devices, network management, network tools and troubleshooting, and security fundamentals. Emphasis will be placed on preparing students to test for industry credentials and certifications.

Potential Career Pathways	Industry Certifications	College Credits
Information Security Analyst - $101,390* Network/Comp. System Admin. - $80,250 Web Developer - $72,190* Computer User Support Spec. - $53,530*	CompTiA A+ CompTiA Net + CCNA	Offered thru HACC CNT 120-Network Tech Communications I CNT 125-Network Tech Communications II (Visit our website to view all college articulation partners)

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COMPUTER PROGRAMMING

COMPETENCIES: CAREER/PROFESSIONAL SKILLS

In **Computer Programming** students will learn to write, develop, and test code for applications to run on computer systems. In addition, they will learn about analyzing and designing solutions to troubleshoot software issues. Students will cover the following topics: understanding computer basics, interpret logical expressions using Boolean Algebra, create simple programs using algorithms, apply program analysis for evaluating algorithms and testing and debugging systems, and learn about computing practice focusing on data structures and object-oriented program design. Emphasis will be on completing college level course work leading to earning college credits through our agreement with Harrisburg University of Science and Technology.

Potential Career Pathways	Industry Certifications	College Credits
Software Developers - $99,280* Web Developer - $72,190* Computer Net. Supp. Spec. - $53,530*		Offered thru Harrisburg University CISC 120-Fund. Of Computing CISC 160-Data Structures CISC-Essential Algorithms (Visit our website to view all college articulation partners)

2020 PA Dept. of Labor In Demand Occupation List *2020 PA Dept. of Labor High Priority Occupation* **ONET Online Bright Outlook Occupation 2020 (Median Wage as of 2020)*

HEALTH SCIENCES

DENTAL ASSISTANT

COMPETENCIES: CAREER/PROFESSIONAL SKILLS

Students in the **Dental Assisting** program learn how to properly aid dentists and dental hygienists. During the course of the program, they will learn the proper techniques that go into every aspect of assisting in a dental office, from taking x-rays to scheduling appointments. To ensure that students are trained as accurately as possible, they practice on modern dental equipment and become familiar with tools common to the profession. Other asks assigned in this program include learning proper sterilization, instrument transferal, infection control, and preventative healthcare techniques; and assisting with basic dental procedures. While students emerge from the Dental Assisting program fully equipped to work as a dental assistant, further education is required before the student can achieve other positions in the field.

Potential Career Pathways	Industry Certifications	College Credits
Dental Assistant - $40,290*	Radiation Health and Safety	Offered thru HACC
Dental Lab Technician - $41,340*	Infection Control	
Dental Hygienist - $67,910*	ASH CPR & AED	DA 170-Pre Dental Clinic
	ASHI Basic First Aid	DA 171-Dental Assist I
		DA 173-Dental Radiology I
		(Visit our website to view all college articulation partners)

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NURSE/NURSING ASSISTANT

COMPETENCIES: CAREER/PROFESSIONAL SKILLS

Students in the **Nursing Assistant** program explore a variety of health professions to develop an awareness of job opportunities in the field. They develop the skills needed to perform effectively in entry-level positions and to receive a good foundation for continued study. Nursing program students learn patient care, first aid, and laboratory skills, and receive simulated work experiences such as assisting doctors with physical exams; demonstrating laboratory skills; assisting with patient care in the office or hospital; and practicing long-term care settings. Special emphasis is placed on personal hygiene; instrument and equipment identification; telephone training; correspondence and record keeping; basic nursing procedures; infection control; standard precautions; sterilization; and OSHA standards. Students are also given instruction in the sciences related to this field including medical terminology, anatomy, pharmacology, and laboratory techniques. This program will provide students with an opportunity to learn advanced functions, including clinical experience with patients through affiliation with Bethany Village Retirement Community.

Potential Career Pathways	Industry Certifications	College Credits
Nursing Assistants - $31,590	Certified Nursing Assistant	Offered thru Pennsylvania College of Technology
Home Health Aide - $25,810	Personal Care Aide	
Registered Nurse - $73,300*	ASHI CPR & First Aid + Basic First Aid	MTR 100-Medical Terminology Survey
	Act 31 Mandated Reporter	MTR 104-Basics of Medical Terminology
	OSHA 10 (Healthcare)	
		(Visit our website to view all college articulation partners)

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EMERGING HEALTH PROFESSIONALS PROGRAM

The Emerging Health Professionals Programs is SENIOR ONLY program that combines college level dual enrollment courses, job shadowing in various healthcare facilities, and a skills-based patient care curriculum. The program is designed for high school seniors interested in a pathway towards careers requiring post-secondary education in the healthcare industry. The Emerging Health Professionals Program is a half-day program that runs the duration of the school year in conjunction with required high school curriculum. Students spend two days a week taking college courses, two days a week in a health care setting and one day a week developing skills. Students in this program take Anatomy and Physiology I and II at our partner college for a total of eight college credits. Applicants must have completed one year of high school Biology and one year of high school Chemistry with a GPA of 3.0 (or % equivalent). Students must provide their own transportation and are responsible for college dual-enrollment costs. This program has a separate application, which may be found at https://www.cpatech.org/ →Programs →Health Sciences → Emerging Health Professionals.

HUMAN SERVICES AND HOSPITALITY

CULINARY ARTS

COMPETENCIES: CAREER/PROFESSIONAL SKILLS

Culinary Arts is a program that offers a broad range of skills and knowledge concerning the selection, preparation, and handling of foods. Skill development will focus on: safety and sanitation; dining room service; preparation of food; buffet service; meat cutting; baking; store room procedures; and basic management skills. Unlike the home economics courses offered by most general high schools, the instruction and on-the-job training will be conducted in a fully equipped cafeteria and restaurant at Cumberland Perry Area Career and Technical Center.

Potential Career Pathways	Industry Certifications	College Credits
Chefs/Head Cooks - $59,040* Food Service Manager - $55,320 Supervisor-Food Prep. & Servers - $38,960 Cooks, Ins. & Café - $30,090 Cooks-Restaurant - $26,770	Servsafe Manager Servsafe Food Handler Servsafe Allergens ACF Certified Fundamentals Cook	(Visit our website to view all college articulation partners)

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COSMETOLOGY

COMPETENCIES: ARTS AND HUMANITIES, CAREER/PROFESSIONAL SKILLS

The **Cosmetology** program at CPACTC gives students a great head start to a lucrative career. Our curriculum is rigid, however, by the time student's graduate they will have skills desirable to employers in the Cosmetology industry. Students in the program learn all aspects of hair care, skin care, and nail care, and not only do they practice on mannequins, but they practice on each other as well. Once the student earns 300 hours they are ready to apply skills to customers in the Cosmetology clinic. Instruction also includes resume writing, interviewing, marketing and retailing, so students are prepared to start the job search process. Students need to earn 1250 hours to be eligible to test for the PA Cosmetology License Exam.

Potential Career Pathways	Industry Certifications	College Credits
Spa Manager - $110,630 Skincare Specialist - $34,090* Cosmetologist - $27,290 Manicurist and Pedicurist - $25,770	PA State Board of Cosmetology License	(Visit our website to view all college articulation partners)

2020 PA Dept. of Labor In Demand Occupation List *2020 PA Dept. of Labor High Priority Occupation* **ONET Online Bright Outlook Occupation 2020 (Median Wage as of 2020)*

CRIMINAL JUSTICE

COMPETENCIES: CAREER/PROFESSIONAL SKILLS

Students in the **Criminal Justice** program learn administrative procedures, vehicle code and accident investigation, crime codes and criminal investigation, prevention of crime, laboratory procedure, and supplemental activities. Simulated activities develop skills in procedures used in police patrol, criminal investigations, accident investigation, report writing, use of PA Crime Code and Pennsylvania Vehicle Code, first aid, and firearms training. Special emphasis is given towards each student's career objectives. Students develop skills needed to perform effectively in police departments and security agencies, and receive a good foundation for continued study in Police Administration, Criminal Justice or Police Science.

Potential Career Pathways	Industry Certifications	College Credits
Supervisor-Police & Detectives - $91,090* Detectives and Criminal Investigators - $83,170 Emergency Management Directors - $74,590* Police/Sheriff Patrol Officer - $68,940* Correctional Officers/Jailers - $55,330	NIMS IS 100 SERIES NIMS IS 200 SERIES NIMS IS 700 SERIES NIMS IS 800 SERIES Act 235 Lethal Weapons Training (HACC) ASHI CPR/AED Pro ASHI Basic First Aid	Offered thru Pennsylvania College of Technology BEM 101-Into Emerg. Mgmt. Oper BEM 103-Hist. & Evol. Of Emerg. Mgmt. (Visit our website to view all college articulation partners)

2020 PA Dept. of Labor In Demand Occupation List *2020 PA Dept. of Labor High Priority Occupation* **ONET Online Bright Outlook Occupation 2020 (Median Wage as of 2020)*

EARLY CHILDHOOD EDUCATION

COMPETENCIES: COMMUNICATIONS, PROJECT-BASED, WELLNESS

The **Early Childhood Education** program instructs students in the preparation and presentation of nutritional snacks, instructional materials, schedules, and curriculum plans. They will also cover how to manage parent involvement, enrollment, safety and health factors, and discipline. A portion of the program is devoted to child development and preschool child growth patterns. Students will develop techniques that will be applied in the preschool program. Time will be provided to do classroom observations of the preschool children, as well as peer observations while teaching. The student will be responsible for supervising the entire preschool laboratory school program including the children's schedule, attendance, greeting children, enrollment, art, music, science, and indoor/outdoor play activities. Students have a portion of the preschool day set aside for "Learning Centers", a time in which they work independently with an assigned preschool child in an area that the child is currently strengthening.

Potential Career Pathways	Industry Certifications	College Credits
Elementary School Teacher - $59,670* Childcare Admin.-Preschool & Daycare - $48,210 Preschool Teachers - $31,380 Childcare Workers - $23,610*		(Visit our website to view all college articulation partners)

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HUMAN TRANSPORTATION AND LOGISTICS

AUTOMOTIVE COLLISION TECHNOLOGY

COMPETENCIES: LAB SCIENCE, PROJECT-BASED

The **Automotive Collision Technology** Program provides students with the training necessary to repair damaged automotive vehicles. Instruction includes the repair and replacement of defective parts to restore a vehicle to good condition. Students learn how to operate hydraulic jacks, how to use pry bars, dolly blocks, and mallets for the removal of dents. Various techniques of metal finishing used to fill the damaged areas of vehicles with body plastics and how to grind and sand until the body is smooth are also covered. Our students also learn to replace auto body parts by installing new sections, and by welding new pieces and panels. Instruction in braising, soldering, and welding practices are stressed. Students develop skills in the preparation of surfaces to be painted, matching and mixing paint, and various spraying techniques. In addition, students install trim and glass, use gauges necessary for frame straightening, and estimate the cost of the repair service.

Potential Career Pathways	Industry Certifications	College Credits
Automotive Body & Related Repairers - $47,970	I-CAR	Offered thru Pennsylvania College of Technology
Insurance Appraiser - $63,270	PA Emissions	
Claims Adjuster, Examiner, Investigator - $66,790	Cat 1 Inspector	ABC 100-Intro. to Non-Structural Repair
	SP/2 Automotive	ABC 104-Intro. to Non-Structural Repair Apps.
	EPA 609-A/C	
	OSHA Certification	(Visit our website to view all college articulation partners)

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AUTOMOTIVE TECHNOLOGY

COMPETENCIES: LAB SCIENCE, PROJECT-BASED

The **Automotive Technology** program provides students with the entry-level skills and knowledge needed for a career in the automotive field. Specialized classroom and shop exercises are designed to provide instruction in the following areas: engine repair, suspension and steering, brakes, electrical/electronic systems, heating and air conditioning, engine performance, manual drive train and axles, automatic transmission/transaxle, emissions control, hybrid technology, and alternative fuels. Students are taught to use computerized technical service manuals and are also trained to participate in the Pennsylvania State Department of Transportation (PENNDOT) safety and emissions inspection program and test. Qualified level 3 students are able to participate in the cooperative education program. This program allows students to gain paid work experience at participating repair facilities while attending school.

Potential Career Pathways	Industry Certifications	College Credits
Automotive Service Technicians - $42,010	I-CAR	Offered thru Pennsylvania College of Technology
Automotive Engineers - $88,430	PA Emissions	AMT 112-Brake Systems
Automotive Engineering Technicians - $56,980	Cat 1-3 Inspector	AMT 113-Steering & Suspension
Auto Parts Salesperson - $31,710	EPA 609-A/C	
	OSHA 10 Certification	(Visit our website to view all college articulation partners)

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DIESEL TECHNOLOGY

COMPETENCIES: LAB SCIENCE, PROJECT-BASED

Students in the **Diesel Technology** course will receive training in all areas of diesel engine construction, operation, troubleshooting and repair. Students also received instruction in maintenance, servicing, and repair of over-the-road trucks, trailers and transportation equipment. The first year of instruction will focus on diesel powered engines that are primarily related to transportation equipment, but can also be applied to diesel powered construction equipment, high lifts, farm machinery and other diesel-powered equipment. Electrical systems, turbo chargers, engine speed governors and lubrication systems are a few examples of the engine subsystems that are covered. Students will be assisted in developing a keen attention to detail, which is necessary for success in this trade. The second-and third-year students study the other components and systems of the truck such as transmissions, rear axles, clutches, drive lines, batteries, starters, alternators, steering, suspension, alignment and air conditioning, just to name a few. Instruction will be provided in oxyacetylene, AC/DC and MIG welding operations. Students who qualify will also be eligible to take the Pennsylvania State Department of Transportation (PENNDOT) safety and emissions inspection program and test for mechanics. They will also be eligible to gain the EPA, type 609 air conditioning certification.

Potential Career Pathways	Industry Certifications	College Credits
Transportation Vehicle, Equipment, Sys. Inspector-$75,820	Cat 1-7 Safety Inspector	Offered thru Pennsylvania College of Technology
Bus/Truck Mechanic & Diesel Engine Spec.-$48,330	PA Emissions	DSM 119-Fuel Systems
Automotive Service Technicians-$42,010	EPA 609-A/C	DSM 141-Heavy Duty Brake Systems
	SP/2 Safety (various)	
		(Visit our website to view all college articulation partners)

2020 PA Dept. of Labor In Demand Occupation List *2020 PA Dept. of Labor High Priority Occupation* **ONET Online Bright Outlook Occupation 2020 (Median Wage as of 2020)*

LOGISTICS AND WAREHOUSE MANAGEMENT

COMPETENCIES: DIGITAL LITERACY, PROJECT-BASED

Logistics & Warehouse Management students will receive training in the technical and "hands on" aspects of operating a warehouse. Instruction will center on "inventory control", which is a plan for supply needs, control of goods received, efficient accessible storage, and proper distribution of materials. Effective record keeping is also a learned skill. Additional activities will include: materials organization, inspection of goods and accounting for warehouse merchandise, receiving and shipping practices, and the use of power equipment such as forklifts, electric pallet jacks, rollers, and conveyor belts for loading, unloading, or placement of packaged merchandise in warehouse or storage areas. Students will receive actual training in "live" work situations. His/her experience will be comprised of working in a warehouse area that stores in excess of $100,000 of stock merchandise a year and will become familiar with handling merchandise that ranges in weight from one ounce to three tons. The program also offers the use of data base (computer) entry system for stored materials

Potential Career Pathways	Industry Certifications	College Credits
Material Handlers - $30,290 Forklift Operators - $36,800 Stock Clerks and Order Fillers - $27,910* Shipping, Receiving, Inventory Clerk - $36,650 Transportation, Storage and Distrib. Mgr - $103,260 Supply Chain Manager - $94,560 Logistics Analyst - $74,750	Certified Logistics Associate NSC Forklift Operator OSHA 10-General Industry	(Visit our website to view all college articulation partners)

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MANUFACTURING

AUTOMATION, ROBOTICS, AND ELECTRONICS

COMPETENCIES: DIGITAL LITERACY, LAB SCIENCE, PROJECT-BASED

Automation, Robotics & Electronics (also commonly called "Electromechanical Technology" or "Mechatronics") is a three-year program that prepares students for employment and for continued education. Students will learn to design, install, troubleshoot, and repair today's modern automation, robotic, and industrial equipment. Instructional topics include: industrial motor controls, robotics and electronics, programmable logic controls, mechanical power transmission systems, fluid power systems/hydraulics/pneumatics, blueprints and schematics, electricity and electrical systems, and A/C and D/C Circuitry.

Potential Career Pathways	Industry Certifications	College Credits
Industrial Machinery Mechanics - $52,510 Electrical and Electronic Engineering Tech. - $65,260 Robotics Technician - $58,350 Industrial Engineering Tech. - $56,550 Electromechanical Technician - $46,960		(Visit our website to view all college articulation partners)

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ADVANCED MANUFACTURING TECHNOLOGY

COMPETENCIES: DIGITAL LITERACY, LAB SCIENCE, NUMERICAL ANALYSIS, PROJECT-BASED

The **Advanced Manufacturing Technology** program prepares students for a challenging and rewarding career and provides entry level training for the manufacturing industry. Students will begin with bench work, blueprint reading, and layout. They will then progress to learning precision measuring tools and techniques to ten thousandths of an inch (.0001"). Students will also learn machining techniques on manual vertical milling machines and manual lathes before progressing on to CNC (Computer Numerical Control) machines. An emphasis on the programming and set up are also included in the CNC training along with instruction on MasterCam and SolidWorks computer software. The course is designed to prepare students for a career as a machinist, but is an excellent choice for a student with the desire to become an engineer.

Potential Career Pathways	Industry Certifications	College Credits
CNC Machine Tool Programmers - $58,550* Machinists - $46,340 CNC Machine Tool Operators - $42,260	NIMS Measurement, Materials, Safety NIMS Job Planning NIMS Turning Between Centers NIMS Turning-Chucking NIMS CNC Turning: Prog. Set Up/Operations NIMS Manual Milling NIMS Drill Press Skills NIMS CNC Turning Operator NIMS CNC Milling Operator NIMS Grinding Skills NIMS CNC Milling: Prog. Set OSHA 10-General Industry	Offered thru HACC MDES 207-Mach Shop Theory MDES 101-Engineering Drawing IA 205-Numerical Control CNC (Visit our website to view all college articulation partners)

2020 PA Dept. of Labor In Demand Occupation List *2020 PA Dept. of Labor High Priority Occupation* **ONET Online Bright Outlook Occupation 2020 (Median Wage as of 2020)*

WELDING TECHNOLOGY

COMPETENCIES: LAB SCIENCE, PROJECT-BASED

Welding offers training in oxyacetylene and AC/DC arc welding, semiautomatic MIG, plasma cutting, and TIG welding systems. Starting with planning and layout work, the student progresses to setting up and operating welding, brazing, and cutting equipment, oxyacetylene welding light gauge metals in all positions, and shielded metal arc welding in all positions. Emphasis is placed on blueprint reading to identify properties of metal, metal types, types and use of electrodes and welding rods, electrical principles, and welding symbols. The use of manuals and specifications charts and the understanding of welding standards established by the American Welding Society are stressed. Training will be offered in the planning, layout, forming, joining and fabrication of various shapes in light and heavy gauge metals and pipe. Students learn to use specialized hand tools and to operate shears, forming and shaping machines, drill presses, and metal cutting saws.

Potential Career Pathways	Industry Certifications	College Credits
Welders, Cutters, Solderers, & Brazers-$44,480 Structural Metal Fabricators & Fitters-$40,390	AWS Shielded Metal Arc Welding (SMAW)-3G AWS Shielded Metal Arc Welding (SMAW)-4G AWS Gas Metal Arc Welding (GMAW)-3G AWS Gas Tungsten Arc Welding (GTAW)-3G AWS Fluxcore Arc Welding D1.1 A100 OSHA Certification	Offered thru HACC WELD 102-Oxy Fuel W & C WELD 103-Shielded Metal Arc I WELD 120-Gas Metal Arc I (Visit our website to view all college articulation partners)

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APPENDIX A: TABLE OF COURSE COMPETENCIES

Arts and Humanities	Career/Professional Skills	
AP Studio Art Ceramics I Ceramics II Ceramics III Digital Photography I Digital Photography II 2D Studio I 2D Studio II 2D Studio III 3D Studio I 3D Studio II The Visual Experience Symphonic Winds Wind Ensemble Concert Choir Chamber Choir Introduction to Music Theory AP Music Theory Lighting & Sound Design Modern Band I Modern Band II Music in Film Guitar Lab Piano Lab Music Technology Lab Video Game Music + Interactive Sound Design Photojournalism Mass Media Creative Writing World of Theatre TV Production <u>CPACTC Shops</u> Advertising, Art, and Design Cosmetology Horticulture and Landscaping	Basic FFA Leadership Advanced FFA Leadership Small Animal Science Animal Science Veterinary Science Equine Science Fish and Wildlife Management Food Science and Safety Plant and Greenhouse Science Intro to Agribusiness DIY Home Projects Essential Home Projects Welding Metal Fabrication Small Gas Engines Architecture I Architecture II Civil Engineering Engineering Design and Innovation Workshop Intro to Artificial Intelligence Intro to Drafting Electronics Robotics Drones Beginner/Intermediate Structural Engineering Sustainable Engineering Wood Tech I Wood Production Computer Science Discoveries Computer Science Principles Entrepreneurship Business 101 Event Planning Principles of Marketing Public Speaking Sports Management Website Design Medical Terminology Leadership Development	<u>CPACTC Shops</u> Advanced Manufacturing Technology Advertising, Art, and Design Auto Collision and Repair Automation, Robotics, and Electronics Automotive Technology Carpentry Computer Programming Computer Networking Criminal Justice Culinary Arts Dental Assistant Diesel Technology Early Childhood Education Electrical Construction and Maintenance Horticulture and Landscaping HVAC/R Logistics and Warehouse Management Masonry Nursing Welding