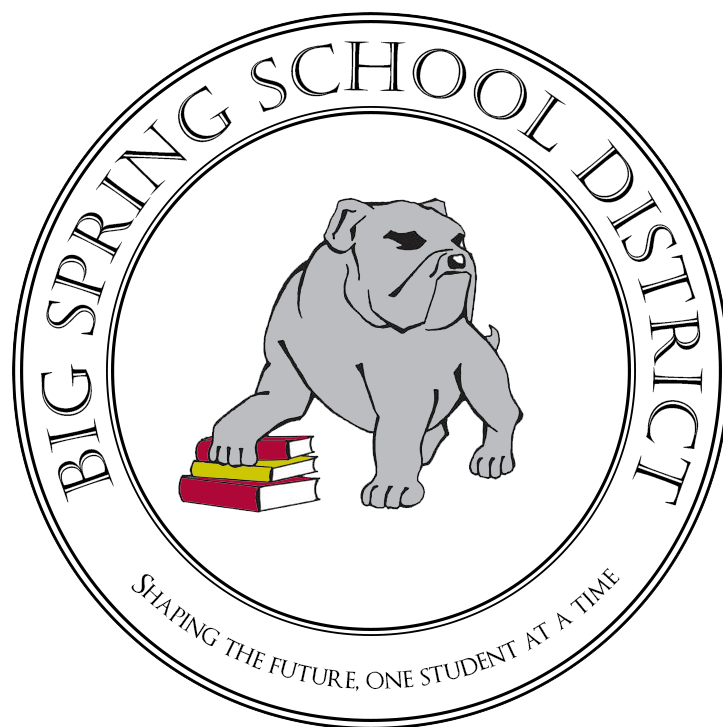


PATHWAYS TO SUCCESS  
**BIG SPRING HIGH SCHOOL**



**HIGH SCHOOL  
COURSE SELECTION GUIDE**

**2023-2024**

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



# BIG SPRING SCHOOL DISTRICT

[www.bigspringsd.org](http://www.bigspringsd.org)  
100 Mount Rock Road  
Newville, PA 17241  
(717) 776-2000

Jeanne Temple, *Interim Superintendent*  
TBA, *Assistant Superintendent*  
Nicole Donato, *Director of Curriculum & Instruction*

## BIG SPRING HIGH SCHOOL

### Administration

Jason Shover, *Principal*  
Charles Smith, *Assistant Principal*  
Joseph Sinkovich, *Assistant Principal*  
Scott Penner, *Athletic Director*

### School Counselors

Jocelyn Kraus, *Classes of 2024 and 2027*  
Adam Oldham, *Class of 2026*  
Kylie Shaul, *Class of 2025*

## BIG SPRING MIDDLE SCHOOL

### Administration

Clarissa Nace, *Principal*  
William Fry, *Assistant Principal*

### School Counselors

Amy Craig  
Anne Fulker

## MOUNT ROCK ELEMENTARY

### Administration

Karen Ward, *Principal*

### School Counselor

Susie Ryan

## NEWVILLE ELEMENTARY

### Administration

William Wonders, *Principal*

### School Counselor

Kristen Boles

## OAK FLAT ELEMENTARY

### Administration

Stacey Kimble, *Principal*

### School Counselor

Danielle Bingaman

### NOTICE OF EQUAL OPPORTUNITY

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

[www.bigspringsd.org](http://www.bigspringsd.org)  
100 Mount Rock Road  
Newville, PA 17241  
(717) 776-2000

Dear Big Spring High School Families:

Welcome to planning for the 2023-2024 school year and beyond!

As Big Spring High School educators, our primary expectation is that all of our students will complete a challenging program of study that prepares them to pursue their postsecondary goals and dreams. A critical initiative that supports students' development of their own program of study are our Career Pathways. In Eighth and Ninth grades, students become familiar with the different Pathways. Near the end of the freshman year, students select one of five Career Pathways to help them:

- Focus on a career area that matches their interests, and
- Set goals and discover classes that connect to specific pathways

In the 2023-2024 Course Description Book you will find important information critical to course and Pathways planning:

- Big Spring High School graduation requirements
- Five Pathway Options and related careers for each
- Recommended sequence of courses
- Specific courses of study for each pathway
- Big Spring High School and Cumberland Perry Area Vocational Technical School course offerings and descriptions

Completing a challenging program of study, which includes a pathway or concentration of courses, is the best predictor of increasing student achievement. We look forward to working with our Big Spring students and parents to make these high school years challenging, gratifying, and a solid foundation for students' postsecondary pursuits.

Sincerely,

*Jason Shover*

Jason Shover  
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.

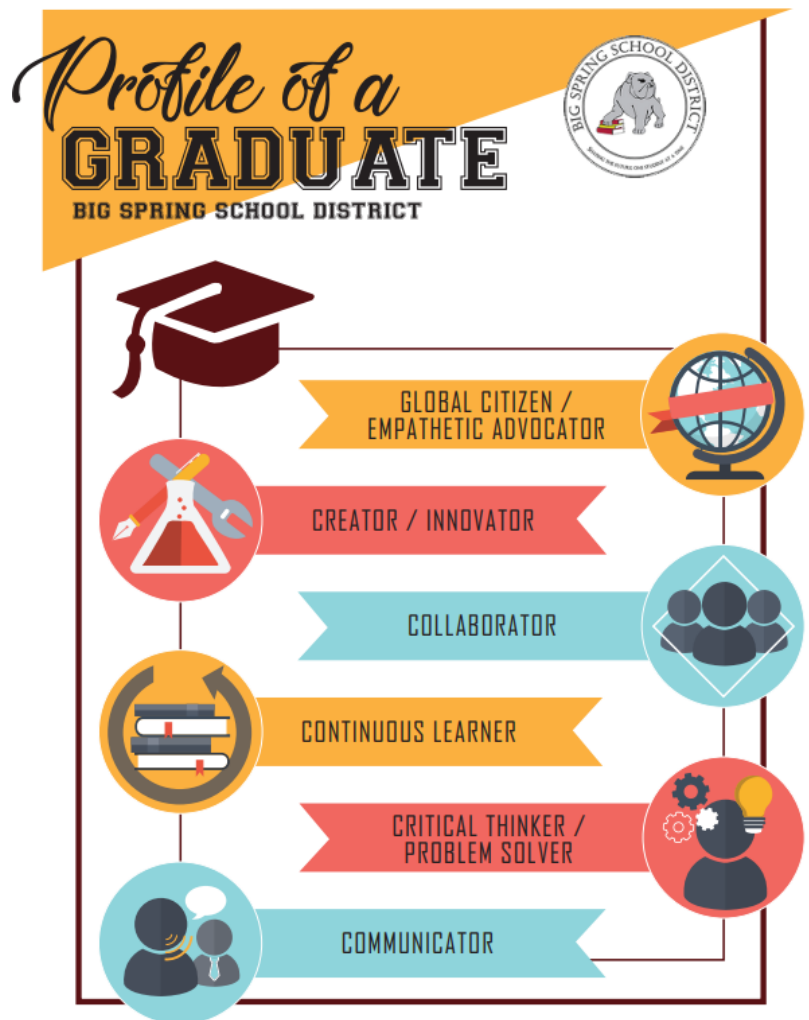
Big Spring High School offers a broad curriculum with specific elective courses that will, to a large extent, determine the options available to students once they graduate and look for work. Creating a strong academic history that is both challenging and enjoyable will promote personal satisfaction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



CREATOR / INNOVATOR

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.



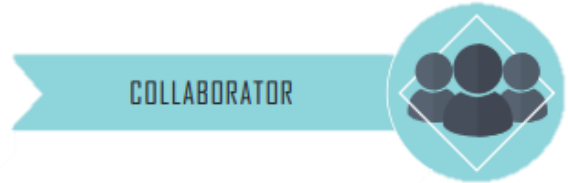
GLOBAL CITIZEN /  
EMPATHETIC ADVOCATOR

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.



CONTINUOUS LEARNER

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.



COLLABORATOR

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.



COMMUNICATOR

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.



CRITICAL THINKER /  
PROBLEM SOLVER

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

# WHAT SKILLS DO BIG SPRING STUDENTS DEVELOP IN HIGH SCHOOL?

## *Ten Big Spring Competency Areas*

|                               |                                                                                                                                                                                                                                                                                                                |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Arts and Humanities</b>    | Students are engaged through participation in and appreciation of the arts with the intent that they will become supporters of the arts.                                                                                                                                                                       |
| <b>Communications</b>         | Students are able to articulate thoughts and ideas effectively using oral, written, and nonverbal communication skills in a variety of forms and contexts.                                                                                                                                                     |
| <b>Digital Literacy</b>       | Students will gain the ability to use information and communication technologies to find, collaborate on, evaluate, create, and communicate information, requiring both cognitive and technical skills.                                                                                                        |
| <b>Project-Based Learning</b> | Students will gain knowledge and skills by working for an extended period of time to investigate and respond to an authentic, engaging, and complex question, problem, or challenge. They will be able to demonstrate what they have learned by creating a public product or presentation for a real audience. |
| <b>Global Studies</b>         | Students will learn to recognize and respect the differences in values that may exist between themselves and people from other countries or varying social and cultural backgrounds.                                                                                                                           |
| <b>Lab Science</b>            | Students will be engaged in the processes of science and engineering design.                                                                                                                                                                                                                                   |
| <b>Literature</b>             | Students will employ close reading skills to analyze and discuss a variety of literature, proving their critical thinking skills through performance-based assessments.                                                                                                                                        |
| <b>Numerical Analysis</b>     | Students will be proficient in using mathematical practices to problem solve and reason effectively.                                                                                                                                                                                                           |
| <b>Research Writing</b>       | Students will be able to conduct research and present their findings in an academic manner.                                                                                                                                                                                                                    |
| <b>Wellness</b>               | Students will be able to transfer learning to lifelong fitness and wellness habits.                                                                                                                                                                                                                            |

# SCHOOL COUNSELING SERVICES

*School Board Policy 112*

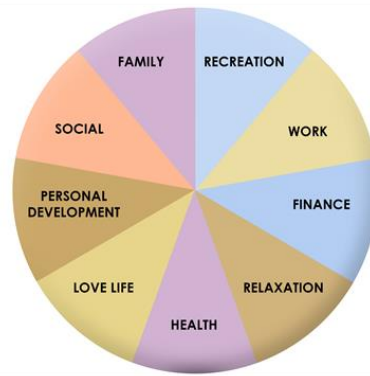
School Counselors at Big Spring High School are available to help students engage successfully in the school setting, to understand their strengths and abilities, and to help them connect these interests with a career path for life after graduation. They can help students define goals and learn about 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?*

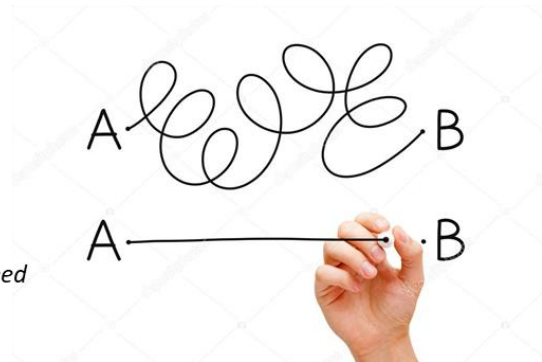


**Where am I going?**

*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 2024 and Class of 2027*  
*Class of 2026*  
*Class of 2025*

Ms. Jocelyn Kraus  
 Mr. Adam Oldham  
 Mrs. Kylie Shaul

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[kshaul@bigspring.k12.pa.us](mailto:kshaul@bigspring.k12.pa.us)

717-776-2429  
 717-776-2428  
 717-776-2466

*School Counseling Office Secretary*  
*School Counseling Office Secretary*

Mrs. Laurie Miller  
 Mrs. Carissa Roberts

[lmiller@bigspring.k12.pa.us](mailto:lmiller@bigspring.k12.pa.us)  
[croberts@bigspring.k12.pa.us](mailto:croberts@bigspring.k12.pa.us)

717-776-2437  
 717-776-2483



# GRADUATION REQUIREMENTS

## School Board Policy 217

Utilizing Career Pathways and Core Course Competencies, 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 28.0 credits for graduation.

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 18 for more information).

|                             |                             |                                                                                                          |                     |
|-----------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------|---------------------|
| <b>GRADES<br/>9 AND 10</b>  | 2 Credits of English        | <b>10 COMPETENCY<br/>AREAS MET</b><br><br>(Competencies can be met with<br>Core and/or Elective Courses) | Arts and Humanities |
|                             | 2 Credits of Math           |                                                                                                          | Communications      |
|                             | 2 Credits of Science        |                                                                                                          | Digital Literacy    |
|                             | 2 Credits of Social Studies |                                                                                                          | Global Studies      |
|                             | 2 Credits of Health/PE      |                                                                                                          | Lab Sciences        |
| <b>GRADES<br/>11 AND 12</b> | 8 Core Credits              |                                                                                                          | Literature          |
|                             | Career Project Seminar      |                                                                                                          | Numerical Analysis  |
|                             | Personal Finance            |                                                                                                          | Project Based       |
|                             |                             |                                                                                                          | Research Writing    |
|                             |                             |                                                                                                          | Wellness            |

# GRADE LEVEL PROMOTION

## School Board Policy 215

Each year at the high school, students schedule 8 credits that they will earn if they successfully pass all of their classes. In order to be promoted to the next grade level, students must earn a minimum number of credits each year. A total of 28 credits is required to earn a Big Spring diploma, as outlined above.


Credits necessary to move into the next grade level are laid out in this chart.

|                                              |            |
|----------------------------------------------|------------|
| <b>Promoted<br/>to 10<sup>th</sup> Grade</b> | 4 credits  |
| <b>Promoted<br/>to 11<sup>th</sup> Grade</b> | 12 credits |
| <b>Promoted to<br/>12<sup>th</sup> Grade</b> | 20 credits |

# 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:

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

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.

**NOTE:** The State High School Graduation Requirement Pathways go into effect for the graduating Class of 2023 and beyond.

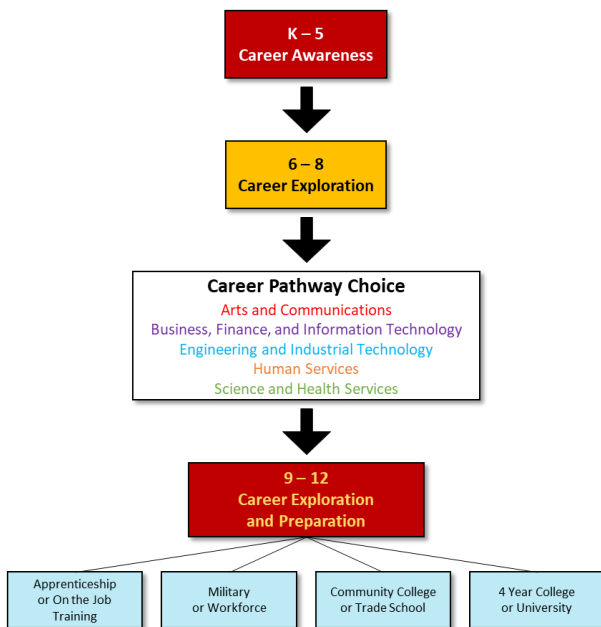
# BIG SPRING CAREER PATHWAYS

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                                                                                                               |                                                                                                                                                                   |                                                                                                                                                                                                                 |                                                                                                                                                                                    |                                                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>•Performing Arts</li> <li>•Visual Arts</li> <li>•Publishing Arts</li> </ul>        | <ul style="list-style-type: none"> <li>•Marketing, Sales, and Service</li> <li>•Finance</li> <li>•Information Technology</li> <li>•Business Management</li> </ul> | <ul style="list-style-type: none"> <li>•Engineering and Engineering Technology</li> <li>•Construction and Architecture</li> <li>•Manufacturing</li> <li>•Transportation, Distribution, and Logistics</li> </ul> | <ul style="list-style-type: none"> <li>•Counseling and Personal Care</li> <li>•Education</li> <li>•Law, Public Safety, and Government</li> <li>•Hospitality and Tourism</li> </ul> | <ul style="list-style-type: none"> <li>•Health Science</li> <li>•Agriculture, Food, and Natural Resources</li> <li>•Science, Technology, and Math</li> </ul>                                                                                       |



|                                              |                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>On the Job Training (OTJ)</b>             | 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                                                                                                                                                                                                |
| <b>Diploma/Certificate Programs</b>          | 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.                                                                                                                                                       |
| <b>Military Training</b>                     | 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.                                                                                                                                                              |
| <b>Apprenticeship Programs</b>               | 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.                                                                                                                                  |
| <b>Associate's Degree Programs</b>           | 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. |
| <b>Bachelor's Degree Programs</b>            | 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.                                                                                                                                                                              |
| <b>Graduate/Professional Degree Programs</b> | 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.                                                                                                                                                                                                                    |



## NAVIANCE

Electronic Career Portfolios (22 Pa. Code 339)

Naviance is a college and career readiness tool that provides students with college planning and career assessment tools. Naviance'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 Naviance account when they enter 6th grade. At the start of each year of high school, students are assigned tasks to complete throughout the year to help them develop their post-secondary plans. These activities are housed in each student's Naviance 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.

## HIGH SCHOOL SCHEDULING

Big Spring High School operates on a **Modified Block Schedule**. Periods 1AB, 2, 4 and 5 are 80 minutes in length and Periods 1A, and 1B are 40 minutes in length. Students have a 60-minute block of time during our Flex where they can receive enrichment and/or remediation in their classes.

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.

## 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.

# 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.

# 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.

| <b>BIG SPRING HS GRADING SCALE</b> |            |                  |
|------------------------------------|------------|------------------|
| *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       |                  |

| <b>CUMBERLAND PERRY AREA CAREER AND TECHNICAL CENTER GRADING SCALE*</b> |           |                  |
|-------------------------------------------------------------------------|-----------|------------------|
| 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

| <b>MARKING PERIOD AND FINAL EXAM PERCENTAGES OF FINAL GRADE</b> |                                                 |                    |                    |                   |
|-----------------------------------------------------------------|-------------------------------------------------|--------------------|--------------------|-------------------|
|                                                                 | Quarter Courses                                 | Semester 1 Courses | Semester 2 Courses | Full Year Courses |
| Quarter 1 (Q1)                                                  | 80%                                             | 40%                |                    | 20%               |
| Quarter 2 (Q2)                                                  | <i>whichever quarter the course takes place</i> | 40%                |                    | 20%               |
| Quarter 3 (Q3)                                                  |                                                 |                    | 40%                | 20%               |
| Quarter 4 (Q4)                                                  |                                                 |                    | 40%                | 20%               |
| Final Exam (E1)                                                 | 20%                                             | 20%                | 20%                | 20%               |
| Final Grade (F1)                                                | 100%                                            | 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:

| <b>HONOR ROLL</b>                         | <b>DISTINGUISHED HONOR ROLL</b>  |
|-------------------------------------------|----------------------------------|
| 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.

# 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 Biology  
AP Chemistry  
AP Environmental Science  
AP Physics C – Mechanics

AP English Literature and Composition  
AP English Language and Composition  
AP Studio Art  
AP Music Theory

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                       |
|---------------------------------------------------------------------|
| $(\text{Course Quality Points} \div \text{Credit Value of Course})$ |

| STEP THREE – CALCULATE GPA                                                     |
|--------------------------------------------------------------------------------|
| $(\text{Sum of Quality Points} \div \text{Sum of Total Credits}) = \text{GPA}$ |

| 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 |

## LATE ARRIVAL/EARLY DISMISSAL (SENIOR PRIVILEGE)

Students who wish to participate in Senior Privilege Late Arrival/Early Dismissal for the first semester must apply when scheduling in the spring semester of their junior year. Second semester requests must be considered prior to the second semester. Late Arrival takes the place of Period 1AB, and Early Dismissal takes the place of Period 5. 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. Students must carry a minimum of three (3) credits each semester.
3. Student has satisfied the state graduation requirements regarding Act 158 of 2018.
4. Parents must give written permission on a Senior Privilege form.
5. Transportation to and from school is the responsibility of the student.
6. Students must enter and sign-in at the office or sign-out and leave at the office.
7. 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.
8. Students are not permitted to loiter in the parking lot or any other area of the school.
9. 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.



# DIPLOMA TRACKING SHEET

|              |
|--------------|
| 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<br>Core<br>Course<br>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                 |  |

|              |  |
|--------------|--|
| <b>NOTES</b> |  |
|--------------|--|



# 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.

| <b>BIG SPRING DISTINGUISHED DIPLOMA</b>                                                                                                                                                                 |                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>At Least Two Years of World Language</b>                                                                                                                                                             |                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                             |
| Students must complete at least two years of the same language (Spanish or French) in the high school level.<br>*Language taken at the MS does not count toward this requirement*                       |                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                             |
| <b>Minimum 3.5 GPA</b>                                                                                                                                                                                  |                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                             |
| <b>3 AP/College Courses</b>                                                                                                                                                                             |                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                             |
| <b>5 Additional Honors/AP/College Courses</b>                                                                                                                                                           |                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                             |
| <b>Citizenship Hours</b>                                                                                                                                                                                |                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                             |
| Students must earn 150 total hours, with a maximum of 75 hours in each of these three categories                                                                                                        |                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                             |
| <b>SCHOOL</b>                                                                                                                                                                                           | <b>COMMUNITY</b>                                                                                                                                                                                                | <b>CAREER</b>                                                                                                                                                                                                                                                                                                               |
| <p>Any after-school activity can count toward this category. One season of a school sport/music/theater will count for 75 hours.</p> <p><i>Examples: Athletics, Marching Band, Musical, Theater</i></p> | <p>Any volunteer work outside of school (can include required club service hours done outside of school).</p> <p><i>Examples: Youth Group Work, Scouts, Mission Trips, Required Service Hours for Clubs</i></p> | <p>Work experience connected to the career field a student plans to pursue after graduation can count toward this category.</p> <p><i>Example: Pursuing a career in accounting while working at Cohick and Associates</i></p> <p><i>NOT an Example: Pursuing a career in veterinary science while working at Sheetz</i></p> |

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         |                                    | Student Signature             |  |
| Citizenship Hours Category | School <input type="checkbox"/>    | Activity Supervisor Signature |  |
|                            | Community <input type="checkbox"/> |                               |  |
|                            | Career <input type="checkbox"/>    |                               |  |



# BIG SPRING HIGH SCHOOL CITIZENSHIP HOURS TRACKING FORM

| Student Name | Grade Level | Advisor Name |
|--------------|-------------|--------------|
|              |             |              |

| Activity Date | Brief Description of the Activity |
|---------------|-----------------------------------|
|               |                                   |

|                            |                                    |                               |  |
|----------------------------|------------------------------------|-------------------------------|--|
| Hours Participated         |                                    | Student Signature             |  |
| Citizenship Hours Category | School <input type="checkbox"/>    | Activity Supervisor Signature |  |
|                            | Community <input type="checkbox"/> |                               |  |
|                            | Career <input type="checkbox"/>    |                               |  |



## 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](http://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<br>English II Academic<br>English II Honors<br>College Prep English<br>Honors English Veritas<br>College Prep Writing<br>College Prep Literature<br>AP English Literature<br>AP English Language<br><br>Creative Writing (0.5)<br>Public Speaking (0.5) | Algebra I<br>Algebra II<br>Honors Algebra II<br>Geometry<br>Honors Geometry<br>Pre-Calculus<br>Honors Pre-Calculus<br>Honors Trigonometry<br>AP Calculus AB<br>AP Calculus BC<br>Statistics<br>AP Statistics<br><br>Computer Sci Principles<br>JAVA (0.5) | Biology<br>AP Biology<br>Chemistry<br>Honors Chemistry<br>AP Chemistry<br>Earth and Space Science<br>Environmental Science<br>AP Environmental Science<br>Physics I<br>Physics II<br>AP Physics C<br>Anatomy and Physiology<br>Marine and Ocean Studies<br>Microbiology<br>Biotechnology<br><br>Intro to Forensics (0.5) | American Studies<br>Government<br>Honors Government<br>AP US Govt and Politics<br>World Studies<br>Honors World Studies<br>AP World History<br><br>Intro to Psychology<br>AP Psychology<br>Sociology<br><br>Current Events (0.5)<br>Economics (0.5)<br>Geography (0.5)<br><br>Military History I (0.5)<br>Honors Military History II<br><br>Law I (0.5)<br>Honors Law II | Spanish I<br>Spanish II<br>Spanish III<br>Honors Spanish IV<br>Honors Spanish V<br><br>French I<br>French II<br>French III<br>Honors French IV<br>Honors French V |

\*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<br>(Natural or Physical) | Science 1        |                           |       |                |
|                                             | Science 2        |                           |       |                |
| 2 Years of Social<br>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<br>(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<br>(Natural or Physical) | Science 1        |                           |       |                |
|                                             | Science 2        |                           |       |                |
| 2 Years of Social<br>Studies                | Social Studies 1 |                           |       |                |
|                                             | Social Studies 2 |                           |       |                |

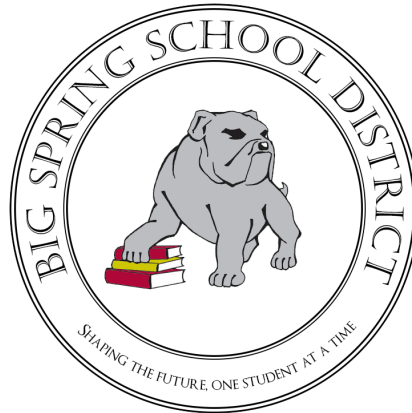
|                                                             |              | Name of Big Spring Course | Grade | Quality Points |
|-------------------------------------------------------------|--------------|---------------------------|-------|----------------|
| 3 Years Total of<br>Additional English,<br>Math, or Science | Additional 1 |                           |       |                |
|                                                             | Additional 2 |                           |       |                |
|                                                             | Additional 3 |                           |       |                |

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

|                                                                                                              |              |              |             |
|--------------------------------------------------------------------------------------------------------------|--------------|--------------|-------------|
| To calculate NCAA GPA, use the following conversion for course grades<br>(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 21<sup>ST</sup> 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: Project-Based              |
| 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:       | <b>0.5 (Core Credit)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Career Pathways: SH                      |
| Prerequisites: | Biology recommended                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Competencies: Lab Science, Project-Based |
| 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:       | <b>0.5 (Core Credit)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Career Pathways: SH                      |
| Prerequisites: | Biology, Animal Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Competencies: Lab Science, Project-Based |
| 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:  | <b>This course will have a required lab fee of \$10.00.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                          |
| 7030           | Welding                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Grades: 10-12                            |
| Credits:       | 0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Career Pathways: EIT                     |
| Prerequisites: | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Competencies: Project-Based              |
| 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:  | <b>This course will have a required lab fee of \$10.00.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                          |

**7040 Metal Fabrication Grades: 11-12**

Credits: 0.5 Career Pathways: EIT, SH  
Prerequisites: Welding Competencies: Project-Based

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.

**7040 Living on Your Own Grades: 9-12**

Credits: 0.5 Career Pathways: EIT, SH  
Prerequisites: None Competencies: Project-Based

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 Grades: 10-12**

Credits: 0.5 Career Pathways: EIT, HS  
Prerequisites: Living on Your Own Competencies: Project-Based

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.

**7060 Small Gas Engines Grades: 10-12**

Credits: 0.5 Career Pathways: EIT, SH  
Prerequisites: None Competencies: Project-Based

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. The students will have the option to work on a vertical shaft or horizontal shaft engine, including the overhead valve series. Students will learn engine parts, tools, and the 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.

Special Note: There may be a required lab fee in the 2023-2024 school year.

**7070 Plant and Greenhouse Science Grades: 10-12**

Credits: **1.0 (Core Credit)** Career Pathways: SH  
Prerequisites: None Competencies: Lab Science

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 and biology, 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 that will be 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: Digital Literacy, Project-Based

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, dissect owl pellets, 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 (Core Credit)** Career Pathways: EIT, HS, SH  
Prerequisites: None Competencies: Lab Science, Project-Based

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: Communications

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:** 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:    | Communications, Research Writing |

**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. The class will also read a leadership development book and much more! 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:** 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. This course also takes the place of Career Project Seminar for 11<sup>th</sup> grade students.

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

|                |      |                  |                |
|----------------|------|------------------|----------------|
| Credits:       | 1.0  | Career Pathways: | SH, HS         |
| Prerequisites: | None | Competencies:    | Communications |

**Description:** This course is required for any FFA member who is in one of the FFA Leadership classes, plans to show an animal at the Shippensburg Fair or Farm Show, and would like to obtain their FFA degrees and/or any member who would like to maintain an SAE project. 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 |
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|                |      |                  |                                 |
|----------------|------|------------------|---------------------------------|
| Credits:       | 0.5  | Career Pathways: | SH                              |
| Prerequisites: | None | Competencies:    | Digital Literacy, Project-Based |

**Description:** This course is a study of the principles and practices dealing with the equine species. If you love 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 |
|------|-----------------------|---------------|
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|                |                          |                  |                                 |
|----------------|--------------------------|------------------|---------------------------------|
| Credits:       | <b>1.0 (Core Credit)</b> | Career Pathways: | BFIT, SH                        |
| Prerequisites: | None                     | Competencies:    | Digital Literacy, Project-Based |

**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

**Special Note:** This course fulfills the graduation requirement of Personal Finance for seniors.

# AGRICULTURE AND TECHNOLOGY EDUCATION

## TECHNOLOGY EDUCATION CLASSES

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                      |                                                 |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------|
| <b>9000</b>    | <b>Introduction to Drafting</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Grades: 9-12</b>  |                                                 |
| Credits:       | 0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Career Pathways:     | EIT                                             |
| Prerequisites: | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Competencies:        | Digital Literacy, Project-Based                 |
| 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. |                      |                                                 |
| <b>9010</b>    | <b>Civil Engineering</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Grades: 10-12</b> |                                                 |
| Credits:       | <b>1.0 (Core Credit for EIT Pathway)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Career Pathways:     | EIT                                             |
| Prerequisites: | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Competencies:        | Digital Literacy, Project-Based                 |
| 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:  | <b>This course will have a required lab fee of \$10.00.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                      |                                                 |
| <b>9020</b>    | <b>Sustainability Engineering</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Grades: 9-12</b>  |                                                 |
| Credits:       | 0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Career Pathways:     | EIT                                             |
| Prerequisites: | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Competencies:        | Communications, Digital Literacy, Project-Based |
| 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:  | <b>This course will have a required lab fee of \$10.00.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                      |                                                 |
| <b>9030</b>    | <b>Robotics</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Grades: 10-12</b> |                                                 |
| Credits:       | <b>1.0 (Core Credit for EIT Pathway)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Career Pathways:     | EIT                                             |
| Prerequisites: | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Competencies:        | Digital Literacy, Lab Science, Project-Based    |
| 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 | Architectural Design | Grades: 9-12 |
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|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------------|
| Credits:       | 1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Career Pathways: | EIT                             |
| Prerequisites: | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Competencies:    | Digital Literacy, Project-Based |
| Description:   | This is an introductory course dealing with basic residential components, drafting techniques and Computer Aided Drafting and Design (CADD) components of architectural design. By using the design process, this course will allow students to explore the various components that are involved in the overall house planning and construction. After completing the course, the students will leave with a general understanding of residential architecture and will have completed sets of residential home floor plans created with AutoDesk Revit Architecture software package, the most common software used in the architecture field. |                  |                                 |
| Special Note:  | <b>These floor plans can be used in a college application portfolio for prospective architecture students.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  |                                 |

| 9050 | Electronics | Grades: 10-12 |
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|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |                                              |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------------------------------------------|
| Credits:       | <b>1.0 (Core Credit for EIT Pathway)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Career Pathways: | EIT                                          |
| Prerequisites: | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Competencies:    | Digital Literacy, Lab Science, Project-Based |
| 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 | Grades: 10-12 |
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|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------------|
| Credits:       | <b>1.0 (Core Credit for EIT Pathway)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Career Pathways: | EIT                             |
| Prerequisites: | Introduction to Drafting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Competencies:    | Digital Literacy, Project-Based |
| Description:   | This course will allow students to have a greater understanding of the overall design process and how engineering plays a fundamental role incorporating drafting communications. This class provides students the opportunity to work with advanced features of AutoCAD and Inventor software packages to design and create 3D models and 3D printed projects. Additionally, students will be applying engineering principles to hands-on problem-solving activities and product development projects incorporating "real world" constraints to the design process. |                  |                                 |
| Special Note:  | <b>This course will have a required lab fee of \$10.00.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |                                 |

| 9070 | Wood Technology | Grades: 9-12 |
|------|-----------------|--------------|
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|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------|
| Credits:       | 0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Career Pathways: | EIT           |
| Prerequisites: | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Competencies:    | Project-Based |
| 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:  | <b>Cost per student for materials used in required projects is \$20.00-\$30.00.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                  |               |

**9080 Wood Production Grades: 10-12**

Credits: 0.5 Career Pathways: EIT  
Prerequisites: Wood Technology Competencies: Project-Based

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 (Core Credit for EIT Pathway) Career Pathways: EIT  
Prerequisites: None Competencies: Project-Based

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.

**9100 Design and Innovation Workshop Grades: 9-12**

Credits: 0.5 Career Pathways: EIT  
Prerequisites: None Competencies: Communications, Project-Based

Description: This "Makerspace" course will consist of separate units that aim to move the student from more prescribed, controlled projects to open-ended, self-initiated work. The first few weeks aim to introduce students to the space, the materials, and some basic skills that will be useful in all future projects. The majority of the year will be spent with the students doing self-guided work. The philosophy behind this is that we want students to take ownership of their work, and thereby become genuine problem-solvers. At the same time, we recognize that certain skills need to be taught, and certain protocols need to be learnt when using tools in a makerspace.

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

**9120 SkyOp Drones Grades: 10-12**

Credits: 1.0 Career Pathways: EIT  
Prerequisites: None Competencies: Project-Based

Description: SkyOp's Drone Training Curriculum takes high school juniors and seniors from beginners to FAA-certified commercial drone pilots, ready to do aerial imaging, data collection, and autonomous flight programming. Our unique and proven curriculum includes:

- Intro to Drones: Students will receive a basic overview of drones, how they function and fly, while also learning to fly effectively without GPS, and discuss how drones are currently being deployed for commercial and public safety use.
- Part 107 Test Prep: Students will gain an understanding of the safety and operational requirements necessary to successfully complete the FAA Unmanned Aircraft – General test and become fully-licensed drone pilots.
- Hands-On Drone Flight Training – DJI Phantom 4 Pro: Students will receive comprehensive outdoor flight training on the versatile DJI Phantom 4 Pro including all of its advanced features.
- Intro to Autonomous Drone Apps with Hands-On Flight Training: Students will learn to program autonomous missions, becoming proficient in the execution of the autonomous flight protocols which enable many commercial drone deployments.

Special Note: Students must be 16 years of age as of September 1st to be eligible for the class. Students will have the option to take the FAA Drone Certification exam upon completion of the course.



|                |                                          |                  |                                              |
|----------------|------------------------------------------|------------------|----------------------------------------------|
| Credits:       | <b>1.0 (Core Credit for EIT Pathway)</b> | Career Pathways: | EIT                                          |
| Prerequisites: | 3 previous Technology Education courses  | Competencies:    | Digital Literacy, Lab Science, Project-Based |

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:       | <b>1.0 (Core Credit for AC Pathway)</b>       | Career Pathways: | AC                                    |
| Prerequisites: | "B" average or higher overall GPA recommended | Competencies:    | Arts and Humanities, Research Writing |

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.

**Special Note: Highly recommended as a prerequisite for AP Studio Art.**

## 7605 AP Studio Art Grades: 11-12

|                |                                                                                                                   |                  |                                    |
|----------------|-------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------|
| Credits:       | <b>1.0 (Core Credit for AC Pathway)</b>                                                                           | Career Pathways: | AC                                 |
| Prerequisites: | "B" average or higher in Honors Drawing and Painting II is recommended; The Visual Experience is also recommended | Competencies:    | Arts and Humanities, Project-Based |

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 Drawing and Painting 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.**

| <b>7620 Drawing and Painting II</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Grades: 10-12</b> |                                    |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------|
| Credits:                            | 1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Career Pathways:     | AC                                 |
| Prerequisites:                      | Drawing and Painting I;<br>"C" average recommended                                                                                                                                                                                                                                                                                                                                                                                                                 | Competencies:        | Arts and Humanities, Project-Based |
| 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:                       | <b>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.</b>                                                                                                                                                                                      |                      |                                    |

| <b>7630 Honors Drawing and Painting III</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Grades: 11-12</b> |                                    |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------|
| Credits:                                    | 1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                | Career Pathways:     | AC                                 |
| Prerequisites:                              | Drawing and Painting II;<br>"B" average recommended                                                                                                                                                                                                                                                                                                                                                                                                | Competencies:        | Arts and Humanities, Project-Based |
| 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:                               | <b>Prerequisite course for AP Studio Art. Materials fee of approximately \$30 - \$40 for the course if students do not already have the supplies.</b>                                                                                                                                                                                                                                                                                              |                      |                                    |

| <b>7700 Sculpture I</b> |                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Grades: 10-12</b> |                                    |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------|
| Credits:                | 1.0                                                                                                                                                                                                                                                                                                                                                                                                                          | Career Pathways:     | AC                                 |
| Prerequisites:          | None                                                                                                                                                                                                                                                                                                                                                                                                                         | Competencies:        | Arts and Humanities, Project-Based |
| 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. |                      |                                    |
| Special Note:           | <b>Prerequisite course for Sculpture II.</b>                                                                                                                                                                                                                                                                                                                                                                                 |                      |                                    |

| <b>7720 Sculpture II</b> |                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Grades: 11-12</b> |                                    |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------|
| Credits:                 | 1.0                                                                                                                                                                                                                                                                                                                                                                                                  | Career Pathways:     | AC                                 |
| Prerequisites:           | Sculpture I;<br>"C" average recommended                                                                                                                                                                                                                                                                                                                                                              | Competencies:        | Arts and Humanities, Project-Based |
| 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, Project-Based

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 handbuilding techniques of pinch, coil and slab, and working with finishes for final piece. Students will work on projects that use the handbuilding techniques in concert to create student designed functional and decorative pieces.

**7820 Ceramics II Grades: 10-12**

Credits: 1.0 Career Pathways: AC  
Prerequisites: Ceramics I; "C" average recommended Competencies: Arts and Humanities, Project-Based

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).

**7900 Digital Photography I Grades: 9-12**

Credits: 0.5 Career Pathways: AC  
Prerequisites: None Competencies: Arts and Humanities, Project-Based, Digital Literacy

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; "C" average recommended Competencies: Arts and Humanities, Project-Based, Digital Literacy

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

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                      |                                                                                                 |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------|
| <b>5300</b>    | <b>Career Project Seminar</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Grades: 11</b>    |                                                                                                 |
| Credits:       | 0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Career Pathways:     | <b>This course is required for graduation; all students must successfully pass this course.</b> |
| 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:  | <b>This course is required for graduation; all students must successfully pass this course. Students may not job shadow at their current place of employment or internship.</b>                                                                                                                                                                                                                                                                                                        |                      |                                                                                                 |
| <b>5400</b>    | <b>Personal Finance</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Grades: 11-12</b> |                                                                                                 |
| Credits:       | 0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Career Pathways:     | <b>This course is required for graduation; all students must successfully pass this course.</b> |
| 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:  | <b>This course is required for graduation; all students must successfully pass this course.</b>                                                                                                                                                                                                                                                                                                                                                                                        |                      |                                                                                                 |
| <b>5020</b>    | <b>Marketing and Advertising</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Grades: 10-12</b> |                                                                                                 |
| Credits:       | <b>0.5 (Core Credit for BFIT Pathway)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                              | Career Pathways:     | AC, BFIT, HS                                                                                    |
| Prerequisites: | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Competencies:        | Digital Literacy                                                                                |
| 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:  | <b>An emphasis is placed on group work and a majority of the class grade will require students to work in a group setting.</b>                                                                                                                                                                                                                                                                                                                                                         |                      |                                                                                                 |
| <b>5090</b>    | <b>Business 101</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Grades: 9-10</b>  |                                                                                                 |
| Credits:       | 1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Career Pathways:     | BFIT                                                                                            |
| Prerequisites: | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Competencies:        | Communications, Project-Based                                                                   |
| 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:  | <b>Members of this class should be willing to join Future Business Leaders of America (FBLA), an organization represented at many high schools all over the country and the world. Project preparation will be a large component of this class. Club dues for the 2023-2024 school year will be \$25.00. Travel and outside-the-classroom experiences are possible for students who excel in this class.</b>                                                                           |                      |                                                                                                 |

**5030 Retail Management Grades: 9-12**

Credits: 1.0 Career Pathways: AC, BFIT, HS  
Prerequisites: None Competencies: Project-Based

Description: This course will teach the concepts of owning and operating a retail store through the operation of the school store during and after school, fulfilling online orders, and ordering and designing apparel and other merchandise for the student body using a Cricut and heat press. Students will learn how to manage inventory, market products, make purchasing decisions, order merchandise to be sold, price merchandise, operate the Square Point of Sale system, and a variety of related skills and tasks.

**5040 Exploring Presentations Grades: 9-12**

Credits: 0.5 Career Pathways: AC, BFIT, EIT, HS, SH  
Prerequisites: None Competencies: Communications, Digital Literacy

Description: This course will teach student presentation skills and how to use other types of communication tools beside Google. Students will learn how to excite their audience with the new speaker techniques. Emphasis will be placed on creating eye-catching presentations and learning how to properly present to an audience using such techniques as Ignite, Public Service Announcement, Ted Talk, and Pecha Kucha. Students will be presenting each week in front of a live audience of their peers and at times teachers.

**5050 Event Planning Grades: 9-12**

Credits: 0.5 Career Pathways: AC, BFIT  
Prerequisites: None Competencies: Project-Based

Description: Event planning is one of the hottest new fields available to people from all walks of life today. Those who have a lot of energy, are comfortable with self-promotion, enjoy talking to and socializing with strangers, are well organized, can handle multi-tasking and have an eye for detail will enjoy this career. This course will give you a great basic understanding of event planning. It will also explain some of the details of how the business works and what an event planner does.

**5080 Sports and Entertainment Management Grades: 9-10**

Credits: 0.5 Career Pathways: BFIT  
Prerequisites: None Competencies: Project-Based

Description: The field of sports and entertainment is growing. General principles of management are presented through this course and are intended to be a guide in taking your first career step into the exciting world of sports and entertainment. The course will focus on the management side of running a sports team or an entertainment event. Students will be expected to collaborate with classmates and present projects.

**5100 Fundamentals of Accounting Grades: 10-12**

Credits: **1.0 (Core Credit for BFIT Pathway)** Career Pathways: BFIT, HS  
Prerequisites: None Competencies: Numerical Analysis

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 by learning the accounting concepts of the accounting cycle through analyzing and interpreting the financial operations and documents of a business. Additionally, students will learn about accounting systems and specific accounting procedures for merchandisers.

**5200****INCubatoredu****Grades: 10-12**Credits: **1.0 (Core Credit for BFIT Pathway)**

Career Pathways:

AC, BFIT, EIT, HS

Prerequisites: None

Competencies:

Project-Based

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.

Special Note:

**This course is a dual enrollment course taught at Big Spring, and participating students may earn 4 college credits through Harrisburg University. Students interested in taking this course as a dual enrollment course must complete HU's application and pay the course fee. This course is weighted .5 for cumulative GPA when taken for college credit. See your counselor or Mrs. Powell for more information regarding this course.**

# 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 Hershey 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.

## **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.

**C517 Passion through the Process Business Program**

Description: This is a ten-week program where seniors chosen from 10 mid-state school districts have the opportunity to spend 90 minutes each day exploring careers at the JDK Group in Camp Hill. During the first five weeks students will rotate through five departments. The departments included are Sales/Event Planning, Marketing, Warehouse Management, Operations, and Culinary. Participating students will then pick a specific department to concentrate on during the final five weeks. Transportation and related costs of participation are the student/parent's responsibility.

**C518 Certified Nursing Assistant (CNA) Program**

Description: The nursing assistant program allows students the opportunity to become a certified nurse assistant (CNA). Classes are taught by HACC instructors at a long-term health care facility or at Carlisle High School. This course is offered during Quarter 1 and 3 only. Enrollment in this course requires a health exam, 2-step PPD, flu shot, as well as a criminal history check. Tuition for this course is \$1098. Transportation and related costs (scrubs, white shoes, watch) 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.

# COMPUTER SCIENCE

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

## 3610 Computer Science Principles Grades: 9-12

|                |                          |                  |                                 |
|----------------|--------------------------|------------------|---------------------------------|
| Credits:       | <b>1.0 (Core Credit)</b> | Career Pathways: | AC, BFIT, EIT, HS, SH           |
| Prerequisites: | None                     | Competencies:    | Digital Literacy, Project-Based |

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 webpage (create your own!), programming, and 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 web design or programming is needed.

## 3620 Computer Science with Python Grades: 9-12

|                |                          |                  |                                 |
|----------------|--------------------------|------------------|---------------------------------|
| Credits:       | <b>1.0 (Core Credit)</b> | Career Pathways: | AC, BFIT, EIT, HS, SH           |
| Prerequisites: | Algebra I                | Competencies:    | Digital Literacy, Project-Based |

Description: This course is designed to help students develop their skills in the planning, logical, and programming arenas. The goal is for students to have a solid foundation in programming and some of the logic behind it. The course begins with an introduction to computers and hardware. The subsequent units blend the mathematics behind programming with application in Python programming language.

## 3630 Graphics with Python Grades: 9-12

|                |                          |                  |                       |
|----------------|--------------------------|------------------|-----------------------|
| Credits:       | <b>1.0 (Core Credit)</b> | Career Pathways: | AC, BFIT, EIT, HS, SH |
| Prerequisites: | None                     | Competencies:    | Project-Based         |

Description: Students will learn to create graphics using the Python programming language. No experience with programming is needed.

## 3600 JAVA Grades: 9-12

|                |                          |                  |                                   |
|----------------|--------------------------|------------------|-----------------------------------|
| Credits:       | <b>0.5 (Core Credit)</b> | Career Pathways: | AC, BFIT, HS                      |
| Prerequisites: | None                     | Competencies:    | Numerical Analysis, Project-Based |

Description: Learn to program computers using the Java programming language! Java is an excellent language to start coding because many of its structures such as branching, looping and graphics transfer to other programming languages. No experience with programming is needed to learn Java.

## 5000 Web Page Design Grades: 9-12

|                |      |                  |                                 |
|----------------|------|------------------|---------------------------------|
| Credits:       | 0.5  | Career Pathways: | AC, BFIT, HS                    |
| Prerequisites: | None | Competencies:    | Digital Literacy, Project-Based |

Description: Always wanted to see what it would be like to make real authentic web pages for a living? Wanted a class that allows you the freedom to give back to teachers, clubs, organizations and maybe used in your current career path or in higher education? Then, Web Page Design is a class you must take. This Project-Based class allows you to learn and explore how to create a fully functioning HTML Web Page from scratch; and to end the experience, you will develop a fully functioning 4- page project for your club, teacher, and or organization.

**Special Note:** This course will prepare students to take the W3Schools HTML Certification Exam.

**5060 Video Game Design I Grades: 9-12**

Credits: 0.5 Career Pathways: AC, BFIT, HS  
Prerequisites: None Competencies: Digital Literacy, Project-Based

Description: Do you wonder how your favorite game was built? Do you have a great idea for an original game? Join this class and learn the complete process of making video games. This class explores the theory and industry processes of making games. This gives you a strong basis into terminologies, game maker languages and game build processes. The class does build 2-3 games and ends with a project you build based on your own design.

**5070 Video Game Design II Grades: 10-12**

Credits: 0.5 Career Pathways: AC, BFIT, HS  
Prerequisites: Video Game Design I Competencies: Digital Literacy, Project-Based

Description: With a strong basis of knowledge from Video Game Design 1 class you are now ready to take it to the next level and this course is for you. This class is all about making games using the highest level of game maker languages either in studio 2, Beta, Construct 3 or mixing in other languages this class pushes you to the design limits, making 2-player games that excite any audience and one-player games that keep you coming back for more, the sky is the limit. If you are serious about looking into this profession then this type experience can be invaluable.

# ENGLISH

**0100**

**English I**

**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 course will focus on preparing students to read and write on a rigorous level. Students will read and analyze major works of literature including short fiction, drama, and poetry from the textbook and selected novels and plays all within thematic units. Students may also be given the option to choose some of their own reading. The Constructed Response writing format will be used in preparation for the Keystone Exams. Vocabulary exercises will be included as well.

**Special Note: English I and English II are sequential.**

**0100**

**English I Honors**

**Grades: 9**

Credits: 1.0

Career Pathways:

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

Prerequisites: Teacher Recommendation

Competencies:

Description: This course will focus on preparing students to read and write on a rigorous level. Students will read and analyze major works of literature including short fiction, drama, and poetry from the textbook and selected novels and plays all within thematic units. Students may also be given the option to choose some of their own reading. The Constructed Response writing format will be used in preparation for the Keystone Exams. Vocabulary exercises will be included as well.

**Special Note: English I and English II are sequential.**

**0200**

**English II Academic**

**Grades: 10**

Credits: 1.0

Career Pathways:

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

Prerequisites: English I

Competencies:

Description: Students will read and discuss works of fiction and nonfiction to develop and improve reading, comprehension, and critical thinking skills. Course work emphasizes literary elements, rhetorical devices, and text structures and provides students with an opportunity to improve their written expression skills in preparation for the state Keystone Exam. A research project to review basic components of research including finding, evaluating, and attributing information from a variety of sources will be required.

**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:

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

Prerequisites: English I

Competencies:

Description: Students will read and discuss works of fiction and nonfiction to develop and improve reading, comprehension, and critical thinking skills. Course work emphasizes literary elements, rhetorical devices, and text structures and provides students with an opportunity to improve their written expression skills in preparation for the state Keystone Exam. A research project to review basic components of research including finding, evaluating, and attributing information from a variety of sources will be required.

**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.**

**0300 College Preparatory Literature Grades: 11-12**

Credits: **1.0 (Core Credit)** Career Pathways: AC, BFIT, EIT, HS, SH  
Prerequisites: English II Competencies: Literature

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.

**0400 College Preparatory Writing Grades: 11-12**

Credits: **1.0 (Core Credit)** Career Pathways: AC, BFIT, EIT, HS, SH  
Prerequisites: English II Competencies: Research Writing

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.

**0310 Literature Grades: 11-12**

Credits: **1.0 (Core Credit)** Career Pathways: AC, BFIT, EIT, HS, SH  
Prerequisites: English II Competencies: Literature

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.

**0320 Research Writing Grades: 11-12**

Credits: **1.0 (Core Credit)** Career Pathways: AC, BFIT, EIT, HS, SH  
Prerequisites: English II Competencies: Communications, Research Writing

Description: This course is designed for students who are not planning to earn a four-year degree after high school. 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.

**0505 AP English Literature and Composition Grades: 11-12**

Credits: **1.0 (Core Credit)** Career Pathways: AC, BFIT, EIT, HS, SH  
Prerequisites: English II Competencies: Literature, Research Writing

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.**

**0605 AP English Language and Composition Grades: 11-12**

Credits: **1.0 (Core Credit)** Career Pathways: AC, BFIT, EIT, HS, SH  
Prerequisites: English II Competencies: Communications, Research Writing

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.**

**0130 Photo Journalism Grades: 9-12**

Credits: 1.0 Career Pathways: AC, BFIT  
Prerequisites: None Competencies: Digital Literacy, Project-Based

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: **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: Arts and Humanities

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: Project-Based

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: **1.0 (Core Credit)** Career Pathways: AC  
Prerequisites: None Competencies: Communications, Digital Literacy

Description: For those interested in a hands-on and fast paced class on journalism, from newspapers to television. Students will learn to write in a journalistic as well as develop communication and critical thinking skills in order to produce articles for an online newspaper and for a school broadcast. Requirements include video projects, written articles, interviews and using broadcasting equipment. Visit our online newspaper at [www.bshspawpring.com](http://www.bshspawpring.com) where you can check out our articles and broadcasts.

**0190 Public Speaking Grades: 9-12**

Credits: **0.5 (Core Credit)** Career Pathways: AC, BFIT, EIT, HS  
Prerequisites: None Competencies: Communications

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.



# HEALTH AND PHYSICAL EDUCATION

## 4100 Teen Health and Physical Education Grades: 9-10

|                |      |                  |                                                                                                 |
|----------------|------|------------------|-------------------------------------------------------------------------------------------------|
| Credits:       | 0.5  | Career Pathways: | <b>This course is required for graduation; all students must successfully pass this course.</b> |
| 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.

## 4000 Driver's Education/ Alcohol, Tobacco, Other Drugs, and Physical Education Grades: 9-10

|                |      |                  |                                                                                                 |
|----------------|------|------------------|-------------------------------------------------------------------------------------------------|
| Credits:       | 0.5  | Career Pathways: | <b>This course is required for graduation; all students must successfully pass this course.</b> |
| Prerequisites: | None | Competencies:    |                                                                                                 |

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.

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

## 4200 Healthy Relationships and Team Sports Grades: 11-12

|                |      |                  |          |
|----------------|------|------------------|----------|
| Credits:       | 0.5  | Career Pathways: | HS, SH   |
| Prerequisites: | None | Competencies:    | Wellness |

Description: This course focuses on what healthy and satisfying relationships look like. Emphasis will be on communication, decision making, refusal and conflict resolution skills. Other topics include growth and development, anatomy, self-care, plus rights and responsibilities in dating situations. Birth control and prevention of sexually transmitted infections (including AIDS) will also be addressed.

The Physical Education component will cover backyard games, net games, speed ball, and time may be spent in the fitness center.

## 4300 Mental Health and Individual Lifetime Activities Grades: 11-12

|                |      |                  |          |
|----------------|------|------------------|----------|
| Credits:       | 0.5  | Career Pathways: | HS, SH   |
| Prerequisites: | None | Competencies:    | Wellness |

Description: Mental Health emphasizes the importance of strong mental/emotional health and demonstrates its interrelationship to all other health areas. Students are encouraged to self-evaluate and plan strategies for personal mental health improvement. Personality, Maslow's Hierarchy of Motivation, and Mental Illness will also be researched and discussed.

This is paired with Physical Education activities that include Individual and Lifetime Activities.

**4330 Personal Fitness and Nutrition Grades: 11-12**

Credits: 0.5 Career Pathways: SH  
Prerequisites: None Competencies: Wellness

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.

**4340 Weight Training Grades: 9-12**

Credits: 0.5 Career Pathways: SH  
Prerequisites: None Competencies: Wellness

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.

Description: 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.

Special Note: **This class may be taken as an elective for 9<sup>th</sup> and 10<sup>th</sup> grade students, but cannot replace the two required PE/Health courses for students in 9<sup>th</sup> and 10<sup>th</sup> grade.**

**4410 Lifeguard Training Grades: 11-12**

Credits: 0.5 Career Pathways: HS, SH  
Prerequisites: None Competencies: Wellness

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: Wellness

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: Communications, Project-Based, Wellness

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:** This class may be taken as an elective for 9<sup>th</sup> and 10<sup>th</sup> grade students, but cannot replace the two required PE/Health courses for students in 9<sup>th</sup> and 10<sup>th</sup> grade.

**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.**

**4500 Leadership Development Grades: 11-12**

Credits: 0.5 Career Pathways: AC  
Prerequisites: None Competencies: Project-Based

Description: The curriculum will be task-driven, as students will build leadership and communication skills while working short- and long-term projects. Students will develop both written and verbal communication skills as well as their ability to work constructively in groups. Furthermore, students will examine and expand upon their personal leadership traits by studying texts and models of leadership from literature, business, and film. The course will also include a community service and school improvement focus. This class may be repeated, upon approval of the instructor.

# LANGUAGES FOR THE 21<sup>ST</sup> 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 skills in Listening Comprehension, Oral Communication Skills, Literacy and Composition. Our emphasis, at all levels of the program, is on the acquisition of fluency: the ability to understand and speak the language. 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 Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  | Grades: 9-12          |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------|
| Credits:       | 1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Career Pathways: | AC, BFIT, EIT, HS, SH |
| Prerequisites: | See Special Note                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Competencies:    | Communications        |
| Description:   | <p>Spanish I introduces the student to simple conversational skills and simple written sentence structures. Units and individual lessons are centered on a set of themes and topics which are naturally interesting to young people: family/friends/school life/sports/shopping/music/and foods. Through the study of target language phonics, alongside the acquisition of the base vocabulary and verb structures, students begin to understand, speak, read, and write in the target language.</p> <p>Culture: Spanish speaking regions of the world, famous people, cuisine, sports, and the importance of learning Spanish. Students demonstrate developing proficiencies through describing, role-playing, responding to questions about short reading selections, and participating in the creation/presentation of group skits and projects. Quizzes and tests are part of the classroom routine, along with composition work.</p> |                  |                       |
| Special Note:  | <p><b>A grade of "C" or higher in the most recent English class is recommended for entry into the language studies program.</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                  |                       |

| 6200           | Spanish II: Novice Level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                  | Grades: 9-12          |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------|
| Credits:       | 1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Career Pathways: | AC, BFIT, EIT, HS, SH |
| Prerequisites: | Spanish I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Competencies:    | Communications        |
| Description:   | <p>Spanish II continues the development of a student's capabilities in the four principal skill sets: listening, speaking, reading, and writing. There is more emphasis in Level II on building the skills to form increasingly correct, complex sentence structure, and on adding the concepts of communication that describe events in the past and future verb tenses. Instruction is thematically based and centers on topics of travel, tourism, art history, school system comparisons, restaurant settings, regional customs and more food!</p> <p>Culture: The geography and history of various travel destinations.<br/>Art: Velásquez, Goya, Picasso, and more!</p> |                  |                       |
| Special Note:  | <p><b>A grade of "C" or higher in Spanish I is recommended for advancement to Spanish II.</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  |                       |

**6300 Spanish III: Intermediate Level Grades: 10-12**

Credits: 1.0 Career Pathways: AC, BFIT, EIT, HS, SH  
Prerequisites: Spanish II Competencies: Communications, Global Studies

Description: Level III is the gateway to language fluency. Students learn to speak, read, and write with increasing accuracy and confidence. Units of study continue to be thematically based and students are guided to draw on the wealth of vocabulary and language structures they've accumulated since their introduction to the language in Level I.

Culture: Students will explore different types of literature.

**Special Note: A grade of "C" or higher in Spanish II is recommended for advancement to Spanish III.**

**6400 Honors Spanish IV Grades: 10-12**

Credits: **1.0 (Core Credit)** Career Pathways: AC, BFIT, EIT, HS, SH  
Prerequisites: Spanish III Competencies: Arts and Humanities, Communications, Global Studies

Description: The Honors Level language courses are designed to advance students more swiftly, and with greater challenge, toward language fluency in all skills areas. Level IV students are expected to willingly use the target language in the classroom, with classmates, as well as with their teacher.

The thematic focus of Level IV promotes an almost exclusive use of the classroom language; with target language to read, discuss, and write about the cultural history, physical geography, and daily lives of people who live in French and Spanish speaking regions of the world. The Level IV course comprises a comprehensive overview of grammar and a seminar style approach to reading material discussion.

Culture: In-depth study of Spanish Art & Artists.

**Special Note: A grade of "B" or higher in Spanish III is recommended for advancement to Spanish IV.**

**6500 Honors Spanish V Grades: 11-12**

Credits: **1.0 (Core Credit)** Career Pathways: AC, BFIT, EIT, HS, SH  
Prerequisites: Spanish IV Competencies: Arts and Humanities, Communications, Literature

Description: Honors Spanish V is designed to increase proficiency in listening and understanding, speaking, reading, and writing. All vocabulary and grammar are acquired, reviewed, or mastered through the study of literature, history, and culture. Attention is given to developing conversational speaking and writing skills.

**Special Note: A grade of "C" or higher in Spanish IV is recommended for advancement to Spanish V.**

**6150 Hispanic Pop Culture Grades: 9-12**

Credits: 0.5 Career Pathways: AC, BFIT, EIT, HS, SH  
Prerequisites: Spanish I Competencies: Global Studies

Description: Students will expand their understanding of other cultures by exploring Latin American and Spanish pop culture topics including television, movies, music, and sports and leisure through authentic materials and resources. For this course, students must have completed Spanish I.

**6600 French I: Introductory Level Grades: 9-12**

Credits: 1.0 Career Pathways: AC, BFIT, EIT, HS, SH  
Prerequisites: See Special Note Competencies: Communications, Digital Literacy

Description: French I introduces the student to simple conversational skills and simple written sentence structures. Units and individual lessons are centered on a set of themes and topics which are naturally interesting to young people: family/friends/school life/sports/shopping/music/and foods. Through the study of target language phonics, alongside the acquisition of the base vocabulary and verb structures, students begin to understand, speak, read, and write in the target language.

Culture: French speaking regions of the world, famous people, cuisine, sports, and the importance of learning French. Students demonstrate developing proficiencies through describing, role-playing, responding to questions about short reading selections, and participating in the creation/presentation of group skits and projects. Quizzes and tests are part of the classroom routine, along with composition work.

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: Communications, Digital Literacy

Description: French II continues the development of a student’s capabilities in the four principal skill sets: listening, speaking, reading, and writing. There is more emphasis in Level II on building the skills to form increasingly correct, complex sentence structure, and on adding the concepts of communication that describe events in the past and future verb tenses. Instruction is thematically based and centers on topics of travel, tourism, art history, school system comparisons, restaurant settings, regional customs and more food!

Culture: The geography and history of various travel destinations.  
Art: Famous monuments throughout the country.

Special Note: **A grade of “C” or higher in French I is recommended for advancement to French II.**

**6800 French III: Intermediate Level Grades: 10-12**

Credits: 1.0 Career Pathways: AC, BFIT, EIT, HS, SH  
Prerequisites: French II Competencies: Communications, Digital Literacy, Global Studies

Description: Level III is the gateway to language fluency. Students learn to speak, read, and write with increasing accuracy and confidence. Units of study continue to be thematically based and students are guided to draw on the wealth of vocabulary and language structures they’ve accumulated since their introduction to the language in Level I.

Culture: Students will explore different types of literature.

Special Note: **A grade of “C” or higher in French II is recommended for advancement to French III.**

**6900 Honors French IV Grades: 10-12**

Credits: **1.0 (Core Credit)** Career Pathways: AC, BFIT, EIT, HS, SH  
Prerequisites: French III Competencies: Arts and Humanities, Communications, Digital Literacy, Literature

The Honors Level language courses are designed to advance students more swiftly, and with greater challenge, toward language fluency in all skills areas. Level IV students are expected to willingly use the target language in the classroom, with classmates, as well as with their teacher.

Description: The thematic focus of Level IV promotes an almost exclusive use of the classroom language; with target language to read, discuss, and write about the cultural history, physical geography, and daily lives of people who live in French and Spanish speaking regions of the world. The Level IV course comprises a comprehensive overview of grammar and a seminar style approach to reading material discussion.

**Special Note: A grade of “B” or higher in French III is recommended for advancement to French IV.**

**6950 Honors French V Grades: 11-12**

Credits: **1.0 (Core Credit)** Career Pathways: AC, BFIT, EIT, HS, SH  
Prerequisites: French IV Competencies: Arts and Humanities, Communications, Digital Literacy

Description: Honors Spanish V is designed to increase proficiency in listening and understanding, speaking, reading, and writing. All vocabulary and grammar are acquired, reviewed, or mastered through the study of literature, history, and culture. Attention is given to developing conversational speaking and writing skills.

**Special Note: A grade of “B” or higher in French IV is recommended for advancement to French V.**

**6650 Exploring World Tourism Grades: 9-12**

Credits: 0.5 Career Pathways: AC, BFIT, EIT, HS, SH  
Prerequisites: None Competencies: Project-Based

Description: Students will explore pre-travel and cultural and societal topics in order to gain a better respect and understanding for culture as well as how to effectively travel to the countries investigated throughout the course.

# MATHEMATICS

## 3000 Algebra I Grades: 9-12

|                |      |                  |                                                                                                 |
|----------------|------|------------------|-------------------------------------------------------------------------------------------------|
| Credits:       | 1.0  | Career Pathways: | <b>This course is required for graduation; all students must successfully pass this course.</b> |
| 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, linear functions, and polynomials. Emphasis is placed on the thinking process, organizational skills, and the understanding of concepts through problem solving. Students will take the Keystone Algebra I exam at the conclusion of this course.

## 3100 Geometry Grades: 9-12

|                |                   |                  |                       |
|----------------|-------------------|------------------|-----------------------|
| Credits:       | 1.0 (Core Credit) | Career Pathways: | AC, BFIT, EIT, HS, SH |
| Prerequisites: | Algebra I         | Competencies:    | Numerical Analysis    |

Description: Plane Geometry investigates lines, angles, triangles, quadrilaterals, polygons, and circles. Algebra and geometry are integrated to examine concepts of measurement, congruence, similarity, and logical reasoning.

**Special Note: It is recommended that students have their own scientific calculator.**

## 3150 Honors Geometry Grades: 9-12

|                |                   |                  |                       |
|----------------|-------------------|------------------|-----------------------|
| Credits:       | 1.0 (Core Credit) | Career Pathways: | AC, BFIT, EIT, HS, SH |
| Prerequisites: | Algebra I         | Competencies:    | Numerical Analysis    |

Description: Honors Plane Geometry investigates angles, triangles, quadrilaterals, polygons, circles and basic trigonometry at a more rigorous pace than Geometry. Algebra and geometry are integrated to examine concepts of measurement, congruence, similarity, and logical reasoning. Students will be expected to complete proofs with proper mathematical notation throughout the course. The primary objective of this course is to teach students how to reason mathematically through visualization, analysis and deductive reasoning. Review work is required prior to the course.

**Special Note: "B" average or higher in Algebra I is recommended. It is also recommended that students have their own scientific calculator.**

## 3200 Algebra II Grades: 9-12

|                |                   |                  |                       |
|----------------|-------------------|------------------|-----------------------|
| Credits:       | 1.0 (Core Credit) | Career Pathways: | AC, BFIT, EIT, HS, SH |
| Prerequisites: | Geometry          | Competencies:    | Numerical Analysis    |

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, multivariable systems, 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.

## 3250 Honors Algebra II Grades: 9-12

|                |                   |                  |                       |
|----------------|-------------------|------------------|-----------------------|
| Credits:       | 1.0 (Core Credit) | Career Pathways: | AC, BFIT, EIT, HS, SH |
| Prerequisites: | None              | Competencies:    | Numerical Analysis    |

Description: Algebra I serves as the foundation for all higher level mathematics courses. Students will develop a fundamental understanding of equations, inequalities, linear functions, and polynomials. Emphasis is placed on the thinking process, organizational skills, and the understanding of concepts through problem solving.



|             |                     |                     |
|-------------|---------------------|---------------------|
| <b>3300</b> | <b>Pre-Calculus</b> | <b>Grades: 9-12</b> |
|-------------|---------------------|---------------------|

|                |                          |                  |                       |
|----------------|--------------------------|------------------|-----------------------|
| Credits:       | <b>1.0 (Core Credit)</b> | Career Pathways: | AC, BFIT, EIT, HS, SH |
| Prerequisites: | Algebra II               | Competencies:    | Numerical Analysis    |

Description: This course continues an exploration into algebraic functions. Students will use critical thinking, analysis, and procedural mastery to investigate properties of functions, rational functions, exponential and logarithmic functions, along with an introduction to sequences and series

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|-------------|----------------------------|---------------------|
| <b>3350</b> | <b>Honors Pre-Calculus</b> | <b>Grades: 9-12</b> |
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| Credits:       | <b>1.0 (Core Credit)</b>                          | Career Pathways: | AC, BFIT, EIT, HS, SH |
| Prerequisites: | "B" or higher in Honors Algebra II is recommended | Competencies:    | Numerical Analysis    |

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. Concepts covered will include a survey of common functions and their graphs, limits of functions, and an introduction to conic sections. Review work is required prior to the course.

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| <b>3360</b> | <b>Honors Trigonometry</b> | <b>Grades: 9-12</b> |
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| Credits:       | <b>1.0 (Core Credit)</b> | Career Pathways: | AC, BFIT, EIT, HS, SH |
| Prerequisites: | None                     | Competencies:    | Numerical Analysis    |

Description: This course seeks to fully prepare the student for success in higher-level math courses through the extended use of critical thinking, analysis, and procedural mastery. Concepts covered will include right triangle relationships, the use of trigonometry in modeling periodic behavior, graphing trigonometric functions, trigonometric identities, and solving trigonometric equations. If time permits, further extension and application of trigonometry will explore topics such as vectors, polar coordinates, and parametric equations

**Special Note:** As this is a numerically intensive course, with frequent connections sought between numerical and graphical solutions, the purchase of a TI-84 calculator is strongly recommended.

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|-------------|-----------------------|---------------------|
| <b>3305</b> | <b>AP Calculus AB</b> | <b>Grades: 9-12</b> |
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| Credits:       | <b>1.0 (Core Credit)</b>          | Career Pathways: | AC, BFIT, EIT, HS, SH |
| Prerequisites: | Precalculus + Honors Trigonometry | Competencies:    | Numerical Analysis    |

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. The AP Calculus AB exam is composed of both calculator-required problems and calculator-restricted problems. As such, all students taking AP Calculus AB are required to have access to a graphing calculator. The course will be taught using a TI-84 graphing calculator.

**Special Note:** The course frequently uses the TI-84 graphing calculator to study the connections between the graphical, numeric and analytic representation of a function. Students with other graphing calculators may need to work independently in order to find how their particular graphing calculator does whatever was shown on the TI-84. 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 should check with their prospective college for placement policy.

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|-------------|-----------------------|---------------------|
| <b>3355</b> | <b>AP Calculus BC</b> | <b>Grades: 9-12</b> |
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| Credits:       | <b>1.0 (Core Credit)</b> | Career Pathways: | AC, BFIT, EIT, HS, SH |
| Prerequisites: | AP Calculus AB           | Competencies:    | Numerical Analysis    |

Description: AP Calculus BC is a continuation of AP Calculus AB. Throughout the BC course, a thorough review of AB topics will lead to the fourth 'Big Idea' of AP Calculus - Sequence and Series. An in-depth study of various types of series along with methods for determining convergence and divergence will lead to an examination of approximating known functions using Maclaurin and Taylor series. The concept of approximation is a common theme throughout AP Calculus, and the power series provides a unifying, comprehensive conclusion to AP Calculus. The AP Calculus BC exam is composed of both calculator-required problems and calculator-restricted problems. As such, all students taking AP Calculus BC are required to have access to a graphing calculator. The course will be taught using a TI-84 graphing calculator.

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 BC Exam may receive college credit for Calculus I and Calculus II or be placed directly into Calculus III by their respective college or university. Students should check with their prospective college for placement policy.**

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| <b>3400</b> | <b>Mathematical Modeling Cogito</b> | <b>Grades: 11-12</b> |
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|----------------|--------------------------|------------------|-----------------------------------|
| Credits:       | <b>1.0 (Core Credit)</b> | Career Pathways: | AC, BFIT, EIT, HS, SH             |
| Prerequisites: | Geometry                 | Competencies:    | Numerical Analysis, Project-Based |

Description: Mathematical Modeling is the process of understanding real-life phenomenon by determining the mathematics that underlies the data. Beginning with whole class investigations into applications from studies such as biology, chemistry, and physics, students will be taught the use of the Vernier Logger-Pro data collection interface. Students will continue to build on these skills with labs appropriate to their mathematics background before designing and implementing a final Mathematical Modeling project of their choosing. The final project will include a presentation before an authentic audience.

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| <b>3500</b> | <b>Statistics</b> | <b>Grades: 11-12</b> |
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| Credits:       | <b>1.0 (Core Credit)</b> | Career Pathways: | AC, BFIT, EIT, HS, SH             |
| Prerequisites: | Geometry                 | Competencies:    | Numerical Analysis, Project-Based |

Description: The purpose of Statistics is to allow students the opportunity to explore the data and statistics behind each students' own interest. Students will get an introduction to statistics and then further discover how numbers drive the things that they enjoy through individual topic information gathering and projects. Topics that have been explored in the past include: sports, the medical field, entertainment (TV, movies, music, and video games), clothing, nature, food, areas of employment and others. Students will design and implement a final statistical project of their choosing. The final project will include a presentation before an authentic audience.

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| <b>3505</b> | <b>AP Statistics</b> | <b>Grades: 11-12</b> |
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|----------------|--------------------------|------------------|-----------------------|
| Credits:       | <b>1.0 (Core Credit)</b> | Career Pathways: | AC, BFIT, EIT, HS, SH |
| Prerequisites: | Algebra II               | Competencies:    | Numerical Analysis    |

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: **Recommended "B" average or higher in prerequisite course(s). 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 Choir Grades: 9-12

Credits: 1.0 Career Pathways: AC  
 Prerequisites: Recommendation of MS/HS Choir Director Competencies: Arts and Humanities

Description: Concert Choir is a full-year, performance-based course. Audition is required to place members in the correct vocal section. A wide variety of songs and styles are covered including a cappella pieces. Sight-reading is emphasized. Choral techniques including tonal quality, diction, phrasing, rhythm, and musicality are stressed.

The choir performs in 3-5 concerts each year and occasionally travels to present a concert. Choir members have the opportunity to participate in County Chorus and audition for the District 7 Chorus Festival.

## 8100 Concert Band Grades: 9-12

Credits: 1.0 Career Pathways: AC  
 Prerequisites: Recommendation of MS/HS Band Director Competencies: Arts and Humanities

Description: Concert Band is a full-year, performance-based course that includes all members of the instrumental program, grades 9 through 12. The ensemble is designed to teach the basic and advanced fundamentals of wind and percussion playing. Ensemble and solo activities are designed to develop elements of musicianship including, but not limited to: tone production, technical skills, intonation, music reading skills, listening skills, analyzing music, and studying historically significant styles of literature.

The Concert Band typically performs 3-5 concerts per year, in addition to festivals and workshops held around the region during the school day.

## 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 (Core Credit)** 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.**

**8300 Jazz Studies Grades: 9-12**

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

Description: This course will trace the development of Jazz music from its origins to present day. Students will explore the different eras, styles, artists, literature and social issues associated with Jazz music. The class will include audio and video recordings to illustrate the stylistic differences and development of each era. Students will spend extensive amounts of time on self-directed research projects that will combine both music and social studies concepts involving the various eras of jazz. This course is co-taught by both the Music and Social Studies departments.

**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.

**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.

**8340 Lighting and Sound Design Grades: 9-12**

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

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.

**8350 Voice Lab Grades: 9-12**

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

Description: Voice Lab is designed for students who would like to develop their individual voice. Students will be able to choose repertoire, with instructor recommendation, to develop their individual singing ability. The course will cover vocal ranges, diction, voice quality, and will use varying repertoire throughout, as well as basic music theory principles such as note and rhythm reading. All students will perform a final recital as part of this course.

| <b>8360 Piano Lab</b> |                                                                                                                                                                                                                                                                                                                                                                                      | <b>Grades: 9-12</b> |                     |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|
| 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:         | <b>A course fee of \$20.00 will be charged for student method books and keyboard maintenance.</b>                                                                                                                                                                                                                                                                                    |                     |                     |

| <b>8370 Music Technology Lab I</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Grades: 9-12</b> |                                    |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------|
| 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. |                     |                                    |

| <b>8371 Music Technology Lab II</b> |                                                                                                                                                                                                                                                                                                                                                                                | <b>Grades: 9-12</b> |                                    |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------|
| Credits:                            | 0.5                                                                                                                                                                                                                                                                                                                                                                            | Career Pathways:    | AC                                 |
| Prerequisites:                      | None                                                                                                                                                                                                                                                                                                                                                                           | Competencies:       | Arts and Humanities, Project-Based |
| Description:                        | Music Technology Lab 2 builds on knowledge obtained in Tech Lab 1, with more in-depth exploration of sound and editing with Audacity Soundnation, and other tools readily available to students. Projects include creating voice overs, foley art, podcasting, and the mastering of recorded audio from various live performances throughout the high school music department. |                     |                                    |

| <b>8390 Music History</b> |                                                                                                                                                                                                                                                                                                                                                                   | <b>Grades: 9-12</b> |                                     |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------|
| Credits:                  | 0.5                                                                                                                                                                                                                                                                                                                                                               | Career Pathways:    | AC                                  |
| Prerequisites:            | None                                                                                                                                                                                                                                                                                                                                                              | Competencies:       | Arts and Humanities, Global Studies |
| Description:              | This course will trace the development of music, covering the major periods, including the Renaissance, Baroque, Classical, Romantic, and Modern eras. A study of the major composers and the major works within each period in the evolution of music will be the focus of this class. Students will develop formal research skills as well as musical analysis. |                     |                                     |

# EXTRACURRICULAR MUSIC PROGRAMS AND ACTIVITIES

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

## A Cappella Ensemble

Description: Vocal Ensemble that is open to interested students involved in curricular Concert Choir. Membership is limited by audition.

## Cantabile

Description: Vocal ensemble that is open to interested students involved in curricular Concert Choir. Membership is limited by audition.

## 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.

## Gold, Silk, and Satin Lab Band

Description: Open to members in Concert Band and/or Marching Band and is dependent on required instrumentation of the ensembles. This ensemble only runs when there are enough students to support two jazz bands.

## 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 Musical Production(s)

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

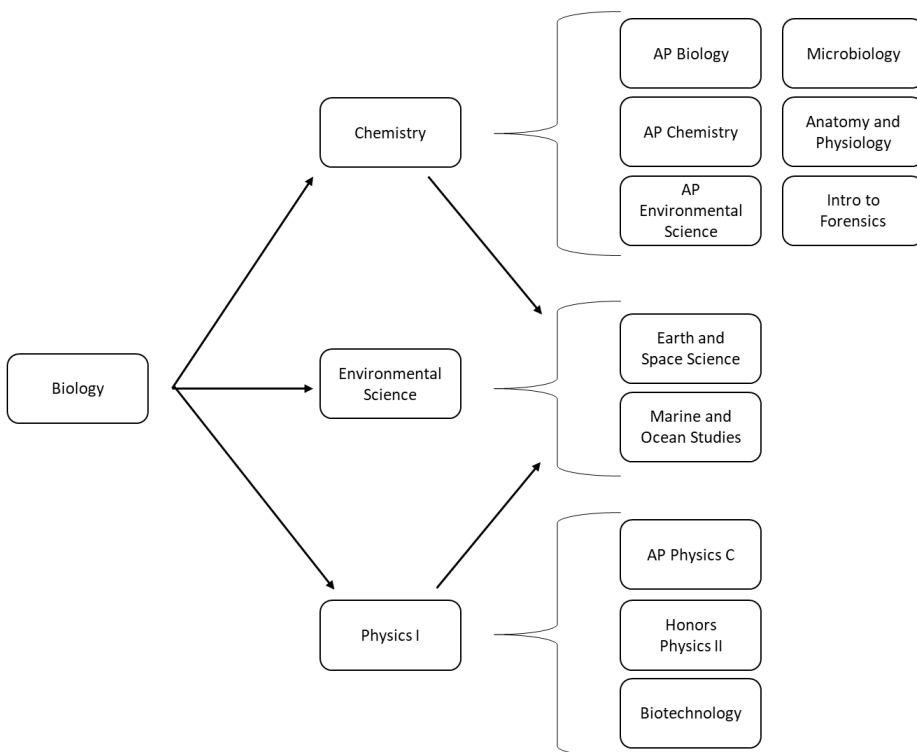
Description: Open to members of the Concert Band and/or Marching Band. Students not enrolled in these ensembles will be considered on a case-by-case basis and must get permission from the band director.

## Twilight Jazz Ensemble

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

# SCIENCE

## SCIENCE COURSE SEQUENCE



### 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 (Core Credit)** Career Pathways: SH  
 Prerequisites: Biology + Chemistry Competencies: Lab Science

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 (Core Credit)** Career Pathways: SH  
Prerequisites: Algebra I + Biology Competencies: Lab Science

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 (Core Credit)** Career Pathways: SH  
Prerequisites: Algebra II + Chemistry Competencies: Lab Science

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 Physics I Grades: 10-12**

Credits: **1.0 (Core Credit)** Career Pathways: EIT, SH  
Prerequisites: Algebra I (Chemistry recommended) Competencies: Lab Science, Numerical Analysis

Description: This science deals with the interaction between matter and energy. It will include a study of motion and forces, energy, wave motion, and electric fields. 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.

**2250 Honors Physics II Grades: 11-12**

Credits: **1.0 (Core Credit)** Career Pathways: EIT, SH  
Prerequisites: Physics I + Chemistry Competencies: Lab Science, Numerical Analysis

Description: This course will serve as an introduction to nuclear physics, optics, and sound. Problem solving and nuclear theory will be stressed as well as the impact of nuclear science on society. Discussion of waves and wave phenomena, and application of these theories will be stressed. Topics discussed will include: relativity, spectra analysis, atomic and nuclear models, fission, fusion, radioactivity, optics, sound wave motion, and energy transfer.

**2205 AP Physics C: Mechanics Grades: 11-12**

Credits: **1.0 (Core Credit)** Career Pathways: EIT, SH  
Prerequisites: Physics I (Calculus AB recommended) Competencies: Lab Science, Numerical Analysis

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:** It is suggested that students enrolled in AP courses take the AP Exam. AP Physics C- Mechanics is weighted .5 for cumulative GPA calculation.



**2206 Biotechnology Grades: 10-12**

Credits: **1.0 (Core Credit)** Career Pathways: EIT, SH  
Prerequisites: Physics I (Calculus AB recommended) Competencies: Lab Science

Description: This course provides an introduction to biotechnology and its application in a variety of medical, industrial, and agricultural disciplines. Topics covered include drug development, medical treatments, environmental biotechnology, biotechnology in animal breeding and horticulture, and ethical issues in biotechnology. This course emphasizes basic understanding of the techniques used in all areas of biotechnology, and the range of consumer products and employment available. This course is well suited to students interested in all areas of science and includes an introduction to laboratory procedures universal to all biotech labs.

Special Note: **Beginning in the 2022-2023 school year, this course will only be offered during years that end with an even number (2022, 2024, 2026, etc.)**

**2300 Environmental Science Grades: 10-12**

Credits: **1.0 (Core Credit)** Career Pathways: SH  
Prerequisites: Biology 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.

**2305 AP Environmental Science Grades: 10-12**

Credits: **1.0 (Core Credit)** Career Pathways: SH  
Prerequisites: Biology + Chemistry Competencies: Lab Science

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 (Core Credit)** Career Pathways: SH  
Prerequisites: Biology + Chemistry Competencies: Lab Science

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.

**2410 Sports Medicine Grades: 11-12**

Credits: 0.5 Career Pathways: SH  
Prerequisites: Biology Competencies:

Description: The course provides an overview of the role of a certified athletic trainer in the high school or clinical setting. Students will be instructed in the basics of anatomy, physiology, and kinesiology as they relate to athletic injuries. Students will engage in many hands-on activities and practices that will prepare the students for a future career as an athletic trainer. Techniques and skills will be taught including taping, wrapping, rehabilitation and treatment modalities along with basic first aid.

**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 (Core Credit)** Career Pathways: SH  
Prerequisites: Biology + Chemistry Competencies: Lab Science

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.

**2440 Microbiology Grades: 11-12**

Credits: **0.5 (Core Credit)** Career Pathways: SH  
Prerequisites: Biology + Chemistry Competencies: Lab Science

Description: This course will introduce microorganisms and how they affect our lives in both helpful and harmful ways. Topics include: Introduction to microbiology, microscopy, preparation of specimens, microbial growth, microbial genetics, bacteria, viruses, important eukaryotes and infectious diseases.

**Special Note: Beginning in the 2021-2022 school year, this course will only be offered during years that end with an odd number (2021, 2023, 2025, etc.)**

**2460 Marine and Ocean Studies Grades: 11-12**

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

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 (Core Credit)**

Career Pathways:

SH

Prerequisites: Biology + (Chem, Physics, or Envi Sci)

Competencies:

Lab Science

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.

# SOCIAL STUDIES

|             |                         |                  |
|-------------|-------------------------|------------------|
| <b>1000</b> | <b>American Studies</b> | <b>Grades: 9</b> |
|-------------|-------------------------|------------------|

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |                                                                                                 |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------|
| Credits:       | 1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Career Pathways: | <b>This course is required for graduation; all students must successfully pass this course.</b> |
| Prerequisites: | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Competencies:    |                                                                                                 |
| Description:   | <p>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.</p> |                  |                                                                                                 |

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| <b>1005</b> | <b>AP US History</b> | <b>Grades: 10-12</b> |
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| Credits:       | 1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Career Pathways: | AC, BFIT, EIT, HS, SH |
| Prerequisites: | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Competencies:    |                       |
| Description:   | <p>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.</p> |                  |                       |
| Special Note:  | <p><b>It is recommended that students enrolled in AP courses take the AP Exam. This course is weighted .5 for cumulative GPA calculation.</b></p>                                                                                                                                                                                                                                                                                                                                                                                        |                  |                       |

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| <b>1100</b> | <b>Government</b> | <b>Grades: 10</b> |
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| Credits:       | 1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Career Pathways: | <b>All students must successfully pass a Government course to graduate.</b> |
| Prerequisites: | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Competencies:    |                                                                             |
| Description:   | <p>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.</p> |                  |                                                                             |

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| <b>1150</b> | <b>Honors Government</b> | <b>Grades: 10</b> |
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| Credits:       | 1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Career Pathways: | <b>All students must successfully pass a Government course to graduate.</b> |
| Prerequisites: | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Competencies:    |                                                                             |
| Description:   | <p>In this honors level course, students will study the same topics as the academic-level Government course, but with an increased emphasis on the ideological and intellectual influences behind the development of American government, the creation and reform of laws, structure and function of political parties, and the impact of special interest groups and the media on governmental operations. Students will have an opportunity to develop personalized projects in areas of public policy that relate to current, real-world issues. Honors students are expected to successfully demonstrate their learning through a variety of written and verbally executed tasks. This course will also prepare students for college-level work and a successful experience in Advanced Placement history and/or government classes. Several student-driven substantial projects will be successfully completed in support of the curriculum.</p> |                  |                                                                             |

| <b>1105 AP US Government and Politics</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Grades: 10-12</b> |                                                                             |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------|
| Credits:                                  | <b>1.0 (Core Credit)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Career Pathways:     | <b>All students must successfully pass a Government course to graduate.</b> |
| Prerequisites:                            | Teacher recommendation suggested                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Competencies:        | Communications                                                              |
| Description:                              | <p>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.</p> |                      |                                                                             |
| Special Note:                             | <p><b>It is recommended that students enrolled in AP courses take the AP Exam. This course is weighted .5 for cumulative GPA calculation.</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                      |                                                                             |

| <b>1200 World Studies</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Grades: 11-12</b> |                       |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------|
| Credits:                  | <b>1.0 (Core Credit)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Career Pathways:     | AC, BFIT, EIT, HS, SH |
| Prerequisites:            | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Competencies:        | Global Studies        |
| Description:              | <p>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.</p> |                      |                       |

| <b>1250 Honors World Studies</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Grades: 11-12</b> |                       |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------|
| Credits:                         | <b>1.0 (Core Credit)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Career Pathways:     | AC, BFIT, EIT, HS, SH |
| Prerequisites:                   | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Competencies:        | Global Studies        |
| Description:                     | <p>This honors course is designed to provide college-bound students the opportunity to investigate the same historical concepts and thematic units as the academic-level World Studies course, but with an increased emphasis on primary source texts. Multiple geographic regions (including but not limited to: Latin America, Africa, the Middle East, Asia, and Europe) will be covered, focusing on not just their history, but perhaps more importantly its cultural development and current issues. Students will use primary and secondary source materials to learn and practice effective historical thinking and analysis skills to interpret texts, then utilizing their knowledge to research and examine how political, social, economic, and cultural changes and conflicts have had an impact on the region in question. Frequent comparisons between these areas and America will be examined. Students will be required to successfully demonstrate their learning through a variety of written and verbally executed tasks. The course will also begin to prepare students for college-level work and a successful experience in Advanced Placement history classes.</p> |                      |                       |

| <b>1205 AP World History: Modern</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Grades: 11-12</b> |                       |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------|
| Credits:                             | 1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Career Pathways:     | AC, BFIT, EIT, HS, SH |
| Prerequisites:                       | Honors Government recommended                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Competencies:        | Global Studies        |
| Description:                         | <p>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.</p> |                      |                       |
| Special Note:                        | <p><b>It is recommended that students enrolled in AP courses take the AP Exam. This course is weighted .5 for cumulative GPA calculation.</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                      |                       |

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| <b>1300</b> | <b>Law I</b> | <b>Grades: 10-12</b> |
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| Credits:       | <b>0.5 (Core Credit)</b> | Career Pathways: | AC, BFIT, EIT, HS, SH |
| Prerequisites: | None                     | Competencies:    | Communications        |

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.

**Special Note:** This course only counts for core credit when taken in 11<sup>th</sup> or 12<sup>th</sup> grade.

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| <b>1310</b> | <b>Honors Law II</b> | <b>Grades: 11-12</b> |
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| Credits:       | <b>1.0 (Core Credit)</b> | Career Pathways: | AC, BFIT, EIT, HS, SH            |
| Prerequisites: | Law I                    | Competencies:    | Communications, Digital Literacy |

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:** Beginning in the 2022-2023 school year, this course will only be offered during years that end with an odd number (2023, 2025, 2027, 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.

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| <b>1320</b> | <b>Current Events</b> | <b>Grades: 9-12</b> |
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| Credits:       | <b>0.5 (Core Credit)</b> | Career Pathways: | AC, BFIT, EIT, HS, SH |
| Prerequisites: | None                     | Competencies:    | Communications        |

Description: This course will focus on national and international events of social, political, economic, geographic and cultural importance. Students will study an array of events that are currently impacting the U.S. and the world. Class work will emphasize reading, researching, writing, and discussion to understand how recent events may be reshaping our history and impacting our lives.

**Special Note:** This course only counts for core credit when taken in 11<sup>th</sup> or 12<sup>th</sup> grade.

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| <b>1330</b> | <b>Design Thinking 101</b> | <b>Grades: 9-12</b> |
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| Credits:       | <b>0.5 (Core Credit)</b> | Career Pathways: | AC, BFIT, EIT, HS, SH           |
| Prerequisites: | None                     | Competencies:    | Digital Literacy, Project-Based |

Description: Students will experience the design process of Empathy, Define, Ideate, Prototype, and Test to develop ideas that meet the needs of humans. Students will be interviewing and observing people in their natural setting, then identifying an area for improvement. They will consider as many ways as possible to approach the area of need and will work to develop one of those ideas. This class teaches strategies to create critically. It also improves communication and collaboration skills and inherently involves a significant amount of hands-on group work.

**Special Note:** This course only counts for core credit when taken in 11<sup>th</sup> or 12<sup>th</sup> grade.

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| <b>1340</b> | <b>Sports in Society</b> | <b>Grades: 10-12</b> |
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| Credits:       | 0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Career Pathways: | HS, BFIT      |
| Prerequisites: | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Competencies:    | Project-Based |
| 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. |                  |               |

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| <b>1350</b> | <b>Geography</b> | <b>Grades: 9-12</b> |
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| Credits:       | <b>0.5 (Core Credit)</b>                                                                                                                                                                                                                                                                                                                                                                                                                 | Career Pathways: | AC, BFIT, EIT, HS, SH            |
| Prerequisites: | None                                                                                                                                                                                                                                                                                                                                                                                                                                     | Competencies:    | Digital Literacy, Global Studies |
| 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:  | <b>Beginning in the 2021-2022 school year, this course will only be offered during years that end with an even number (2022, 2024, 2026, etc.). This course only counts for core credit when taken in 11<sup>th</sup> or 12<sup>th</sup> grade.</b>                                                                                                                                                                                      |                  |                                  |

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| <b>1360</b> | <b>Economics</b> | <b>Grades: 9-12</b> |
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| Credits:       | <b>0.5 (Core Credit)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                          | Career Pathways: | AC, BFIT, EIT, HS, SH |
| Prerequisites: | None                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Competencies:    | Digital Literacy      |
| 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:  | <b>Beginning in the 2021-2022 school year, this course will only be offered during years that end with an odd number (2021, 2023, 2025, etc.). This course only counts for core credit when taken in 11<sup>th</sup> or 12<sup>th</sup> grade.</b>                                                                                                                                                                                                                |                  |                       |

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| <b>1370</b> | <b>Military History I</b> | <b>Grades: 9-12</b> |
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| Credits:       | <b>0.5 (Core Credit)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Career Pathways: | AC, BFIT, EIT, HS, SH          |
| Prerequisites: | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Competencies:    | Communications, Global Studies |
| 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. |                  |                                |
| Special Note:  | <b>This course only counts for core credit when taken in 11<sup>th</sup> or 12<sup>th</sup> grade.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                  |                                |

| <b>1380 Honors Military History II</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Grades: 10-12</b> |                                |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------|
| Credits:                               | <b>1.0 (Core Credit)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Career Pathways:     | AC, BFIT, EIT, HS, SH          |
| Prerequisites:                         | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Competencies:        | Communications, Global Studies |
| Description:                           | <p>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.</p> |                      |                                |
| Special Note:                          | <p><b>Beginning in the 2021-2022 school year, this course will only be offered during years that end with an even number (2022, 2024, 2026, etc.). This course only counts for core credit when taken in 11<sup>th</sup> or 12<sup>th</sup> grade.</b></p>                                                                                                                                                                                                                                                                                                                                                                |                      |                                |

| <b>1390 Sociology</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Grades: 11-12</b> |                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------|
| Credits:              | <b>1.0 (Core Credit)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                | Career Pathways:     | AC, BFIT, EIT, HS, SH         |
| Prerequisites:        | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Competencies:        | Communications, Project-Based |
| Description:          | <p>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.</p> |                      |                               |

| <b>1400 Intro to Psychology</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Grades: 11-12</b> |                                 |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------------|
| Credits:                        | <b>1.0 (Core Credit)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Career Pathways:     | AC, BFIT, EIT, HS, SH           |
| Prerequisites:                  | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Competencies:        | Digital Literacy, Project-Based |
| Description:                    | <p>This elective course is designed to give the student a broad study of the fundamental concepts and ideology of modern psychology. This course will cover basic familiarity with many of the fundamental concepts and principles of modern psychology while providing more opportunities for enrichment within a broader variety of topics. In addition, the student will be required to complete a number of projects, including supplemental reading with accompanying position papers and a number of self-directed projects intended to deepen their understanding of the science and of themselves.</p> |                      |                                 |

| <b>1405 AP Psychology</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Grades: 11-12</b> |                |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------|
| Credits:                  | <b>1.0 (Core Credit)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Career Pathways:     | BFIT, HS, SH   |
| Prerequisites:            | Prior Honors/AP Experience recommended                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Competencies:        | Communications |
| Description:              | <p>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.</p> |                      |                |
| Special Note:             | <p><b>It is recommended that students enrolled in AP courses take the AP Exam. This course is weighted .5 for cumulative GPA calculation.</b></p>                                                                                                                                                                                                                                                                                                                                                           |                      |                |





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](http://www.CPACTC.org).

### **2023-2024 CAREER PATHWAYS AND PROGRAMS AT CPACTC**

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

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

## 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                | <b>CPACTC Program</b> | <b>CPACTC Program</b>  | <b>CPACTC Program</b> |

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.

## CARPENTRY

COMPETENCIES: LAB SCIENCE, PROJECT-BASED

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

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

### Industry Certifications

OSHA-10  
 ASHI Basic First Aid  
 ASHI CPR & AED  
 JLG Aerial Work Platform  
 JLG Material Handler  
 JLG Scissor Lift  
 PA Builders Association

### College Credits

(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: LAB SCIENCE, PROJECT-BASED

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

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\*

### Industry Certifications

OSHA-10  
 JLG Material Handler  
 NJATC 1<sup>st</sup> Year Apprenticeship  
 IEC 1<sup>st</sup> Year Apprenticeship  
 PA Builder's Assoc. Skills Cert

### College Credits

(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: LAB SCIENCE, PROJECT-BASED

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

Energy Engineers - \$99,040  
 HVAC Mechanics & Installers - \$51,880.00  
 Geothermal Technicians - \$39,830

### Industry Certifications

OSHA 10  
 EPA 608  
 Pa Builder's Association Skills Cert.

### College Credits

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, LAB SCIENCE, PROJECT-BASED

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<br>Landscaper/Groundskeeper - \$31,600<br>Supervisor-Landscapers and Groundskeepers - \$49,370*<br>Pesticide Handler, Sprayer, Applicator - \$35,840<br>Grounds Maintenance Workers - \$32,090*<br>Soil and Plant Scientist - \$63,200 | OSHA 10<br>PA Certified Horticulturalist Assoc.<br>Pesticide Certification | Offered thru Pennsylvania College of Technology<br><br>HORT 101-Intro. Ornamental Horticulture<br>HORT 113-Ornamental Plants |
| (Visit our website to view all college articulation partners)                                                                                                                                                                                                                      |                                                                            |                                                                                                                              |
| <small>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)</small>                                                                                         |                                                                            |                                                                                                                              |

## MASONRY

COMPETENCIES: LAB SCIENCE, PROJECT-BASED

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<br>Cement Masons/Concrete Finishers - \$54,910<br>Tile and Stone Setters - \$54,240<br>Helpers-Brick/Block/Stonemason - \$46,130                      | OSHA 10<br>JLG Material Handler<br>PA Builder's Assoc. Skills Cert. | Offered thru Pennsylvania College of Technology<br><br>BCT 234-Masonry Principles-PCT |
| (Visit our website to view all college articulation partners)                                                                                                                              |                                                                     |                                                                                       |
| <small>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)</small> |                                                                     |                                                                                       |

# ARTS AND TECHNOLOGY

## ADVERTISING, ART, AND DESIGN

COMPETENCIES: ARTS AND HUMANITIES, DIGITAL LITERACY, PROJECT-BASED

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

Graphic Designers - \$49,150  
 Desktop Publishers - \$45,390  
 Special Effects Artists and Animators - \$75,270  
 Commercial and Industrial Designer - \$68,890

*2020 PA Dept. of Labor In Demand Occupation List*

### Industry Certifications

Adobe Photoshop  
 Adobe InDesign  
 Adobe Illustration

*2020 PA Dept. of Labor High Priority Occupation*

### College Credits

(Visit our website to view all college articulation partners)

*\*ONET Online Bright Outlook Occupation 2020 (Median Wage as of 2020)*

## COMPUTER NETWORKING

COMPETENCIES: COMMUNICATIONS, DIGITAL LITERACY, PROJECT-BASED

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

Information Security Analyst - \$101,390\*  
 Network/Comp. System Admin. - \$80,250  
 Web Developer - \$72,190\*  
 Computer User Support Spec. - \$53,530\*

*2020 PA Dept. of Labor In Demand Occupation List*

### Industry Certifications

CompTIA A+  
 CompTia Net +  
 CCNA

*2020 PA Dept. of Labor High Priority Occupation*

### College Credits

Offered thru HACC

CNT 120-Network Tech Communications I  
 CNT 125-Network Tech Communications II

(Visit our website to view all college articulation partners)

*\*ONET Online Bright Outlook Occupation 2020 (Median Wage as of 2020)*

## COMPUTER PROGRAMMING

COMPETENCIES: COMMUNICATIONS, DIGITAL LITERACY, PROJECT-BASED

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

Software Developers - \$99,280\*  
 Web Developer - \$72,190\*  
 Computer Net. Supp. Spec. - \$53,530\*

*2020 PA Dept. of Labor In Demand Occupation List*

### Industry Certifications

### College Credits

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)

*\*ONET Online Bright Outlook Occupation 2020 (Median Wage as of 2020)*

## DENTAL ASSISTANT

COMPETENCIES: LAB SCIENCE, PROJECT-BASED, WELLNESS

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

Dental Assistant - \$40,290\*  
Dental Lab Technician - \$41,340\*  
Dental Hygienist - \$67,910\*

### Industry Certifications

Radiation Health and Safety  
Infection Control  
ASH CPR & AED  
ASHI Basic First Aid

### College Credits

Offered thru HACC  
DA 170-Pre Dental Clinic  
DA 171-Dental Assist I  
DA 173-Dental Radiology I

(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)*

## NURSE/NURSING ASSISTANT

COMPETENCIES: COMMUNICATIONS, LAB SCIENCE, PROJECT-BASED, WELLNESS

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

Nursing Assistants - \$31,590  
Home Health Aide - \$25,810  
Registered Nurse - \$73,300\*

### Industry Certifications

Certified Nursing Assistant  
Personal Care Aide  
ASHI CPR & First Aid + Basic First Aid  
Act 31 Mandated Reporter  
OSHA 10 (Healthcare)

### College Credits

Offered thru Pennsylvania College of Technology  
MTR 100-Medical Terminology Survey  
MTR 104-Basics of Medical Terminology

(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)*

## 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.

## CULINARY ARTS

COMPETENCIES: LAB SCIENCE, PROJECT-BASED, WELLNESS

**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*<br>Food Service Manager - \$55,320<br>Supervisor-Food Prep. & Servers - \$38,960<br>Cooks, Ins. & Café - \$30,090<br>Cooks-Restaurant - \$26,770 | Servsafe Manager<br>Servsafe Food Handler<br>Servsafe Allergens<br>ACF Certified Fundamentals Cook | (Visit our website to view all college articulation partners)                       |
| <small>2020 PA Dept. of Labor In Demand Occupation List</small>                                                                                                               | <small>2020 PA Dept. of Labor High Priority Occupation</small>                                     | <small>*ONET Online Bright Outlook Occupation 2020 (Median Wage as of 2020)</small> |

## COSMETOLOGY

COMPETENCIES: COMMUNICATIONS, PROJECT-BASED

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<br>Skincare Specialist - \$34,090*<br>Cosmetologist - \$27,290<br>Manicurist and Pedicurist - \$25,770 | PA State Board of Cosmetology License                          | (Visit our website to view all college articulation partners)                       |
| <small>2020 PA Dept. of Labor In Demand Occupation List</small>                                                                | <small>2020 PA Dept. of Labor High Priority Occupation</small> | <small>*ONET Online Bright Outlook Occupation 2020 (Median Wage as of 2020)</small> |

## CRIMINAL JUSTICE

COMPETENCIES: COMMUNICATIONS, PROJECT-BASED

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*<br>Detectives and Criminal Investigators - \$83,170<br>Emergency Management Directors - \$74,590*<br>Police/Sheriff Patrol Officer - \$68,940*<br>Correctional Officers/Jailers - \$55,330 | NIMS IS 100 SERIES<br>NIMS IS 200 SERIES<br>NIMS IS 700 SERIES<br>NIMS IS 800 SERIES<br>Act 235 Lethal Weapons Training (HACC)<br>ASHI CPR/AED Pro<br>ASHI Basic First Aid | Offered thru Pennsylvania College of Technology<br>BEM 101-Intro Emerg. Mgmt. Oper<br>BEM 103-Hist. & Evol. Of Emerg. Mgmt.<br>(Visit our website to view all college articulation partners) |
| <small>2020 PA Dept. of Labor In Demand Occupation List</small>                                                                                                                                                                       | <small>2020 PA Dept. of Labor High Priority Occupation</small>                                                                                                             | <small>*ONET Online Bright Outlook Occupation 2020 (Median Wage as of 2020)</small>                                                                                                          |

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*<br>Childcare Admin.-Preschool & Daycare - \$48,210<br>Preschool Teachers - \$31,380<br>Childcare Workers - \$23,610* | 2020 PA Dept. of Labor High Priority Occupation | (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) |



## 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<br>Insurance Appraiser - \$63,270<br>Claims Adjuster, Examiner, Investigator - \$66,790 | I-CAR<br>PA Emissions<br>Cat 1 Inspector<br>SP/2 Automotive<br>EPA 609-A/C<br>OSHA Certification | Offered thru Pennsylvania College of Technology<br><br>ABC 100-Intro. to Non-Structural Repair<br>ABC 104-Intro. to Non-Structural Repair Apps.<br><br>(Visit our website to view all college articulation partners) |
| <small>2020 PA Dept. of Labor In Demand Occupation List</small>                                                                        | <small>2020 PA Dept. of Labor High Priority Occupation</small>                                   | <small>*ONET Online Bright Outlook Occupation 2020 (Median Wage as of 2020)</small>                                                                                                                                  |

## 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<br>Automotive Engineers - \$88,430<br>Automotive Engineering Technicians - \$56,980<br>Auto Parts Salesperson - \$31,710 | I-CAR<br>PA Emissions<br>Cat 1-3 Inspector<br>EPA 609-A/C<br>OSHA 10 Certification | Offered thru Pennsylvania College of Technology<br>AMT 112-Brake Systems<br>AMT 113-Steering & Suspension<br><br>(Visit our website to view all college articulation partners) |
| <small>2020 PA Dept. of Labor In Demand Occupation List</small>                                                                                                    | <small>2020 PA Dept. of Labor High Priority Occupation</small>                     | <small>*ONET Online Bright Outlook Occupation 2020 (Median Wage as of 2020)</small>                                                                                            |

## 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<br>Bus/Truck Mechanic & Diesel Engine Spec.-\$48,330<br>Automotive Service Technicians-\$42,010 | Cat 1-7 Safety Inspector<br>PA Emissions<br>EPA 609-A/C<br>SP/2 Safety (various) | Offered thru Pennsylvania College of Technology<br>DSM 119-Fuel Systems<br>DSM 141-Heavy Duty Brake Systems<br><br>(Visit our website to view all college articulation partners) |
| <small>2020 PA Dept. of Labor In Demand Occupation List</small>                                                                                            | <small>2020 PA Dept. of Labor High Priority Occupation</small>                   | <small>*ONET Online Bright Outlook Occupation 2020 (Median Wage as of 2020)</small>                                                                                              |

**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<br>Forklift Operators - \$36,800<br>Stock Clerks and Order Fillers - \$27,910*<br>Shipping, Receiving, Inventory Clerk - \$36,650<br>Transportation, Storage and Distrib. Mgr - \$103,260<br>Supply Chain Manager - \$94,560<br>Logistics Analyst - \$74,750 | Certified Logistics Associate<br>NSC Forklift Operator<br>OSHA 10-General Industry | (Visit our website to view all college articulation partners)               |
| <i>2020 PA Dept. of Labor In Demand Occupation List</i>                                                                                                                                                                                                                                   | <i>2020 PA Dept. of Labor High Priority Occupation</i>                             | <i>*ONET Online Bright Outlook Occupation 2020 (Median Wage as of 2020)</i> |

# 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

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

### Industry Certifications

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)

### College Credits

(Visit our website to view all college articulation partners)

## 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

CNC Machine Tool Programmers - \$58,550\*  
 Machinists - \$46,340  
 CNC Machine Tool Operators - \$42,260

### Industry Certifications

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

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)

### College Credits

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)

## 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

Welders, Cutters, Solderers, & Brazers-\$44,480  
 Structural Metal Fabricators & Fitters-\$40,390

### Industry Certifications

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

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)

### College Credits

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)

# APPENDIX A: TABLE OF COURSE COMPETENCIES

| Students can earn these four competency areas in grades 9-12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| Arts and Humanities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Communications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Digital Literacy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Project-Based                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p>AP Studio Art<br/>Ceramics I<br/>Ceramics II<br/>Concert Band<br/>Concert Choir<br/>Digital Photography I<br/>Digital Photography II<br/>Drawing and Painting I<br/>Drawing and Painting II<br/>Honors Drawing &amp; Painting III<br/>Guitar Lab<br/>Honors French IV<br/>Honors French V<br/>Honors Spanish IV<br/>Honors Spanish V<br/>Introduction to Music Theory I<br/>AP Music Theory<br/>Jazz Studies<br/>Lighting &amp; Sound Design<br/>Music History<br/>Music in Film<br/>Music Technology Lab I<br/>Music Technology Lab II<br/>Piano Lab<br/>Sculpture I<br/>Sculpture II<br/>The Visual Experience<br/>Voice Lab<br/>World of Theatre</p> <p><u>CPACTC Shops</u><br/>Advertising, Art, and Design<br/>Horticulture and Landscaping</p> | <p>Advanced FFA Leadership<br/>AP English Language<br/>AP Psychology<br/>AP US Gov't and Politics<br/>Babysitting/Aquatic Games<br/>Basic FFA Leadership<br/>Current Events<br/>Design and Innovation Workshop<br/>Exploring Presentations<br/>French I<br/>French II<br/>French III<br/>Honors French IV<br/>Honors French V<br/>Business 101<br/>Law I<br/>Honors Law II<br/>Mass Media<br/>Military History<br/>Honors Military History<br/>Public Speaking<br/>Real World Research<br/>Sociology<br/>Spanish I<br/>Spanish II<br/>Spanish III<br/>Honors Spanish IV<br/>Honors Spanish V<br/>Supervised Agricultural Experience<br/>Sustainability Engineering</p> <p><u>CPACTC Shops</u><br/>Computer Networking<br/>Computer Programming<br/>Cosmetology<br/>Criminal Justice<br/>Early Childhood Education<br/>Nursing</p> | <p>Architectural Design<br/>Civil Engineering<br/>Computer Science Principles<br/>Computer Science with Python<br/>Design Thinking 101<br/>Digital Photography I<br/>Digital Photography II<br/>Economics<br/>Electronics<br/>Engineering Design<br/>Equine Science<br/>Exploring Presentations<br/>Fish and Wildlife Management I<br/>French I<br/>French II<br/>French III<br/>Honors French IV<br/>Honors French V<br/>Geography<br/>Honors Law II<br/>Honors Tech Edu Capstone<br/>Intro to Agribusiness<br/>Intro to Drafting<br/>Intro to Psychology<br/>Lighting &amp; Sound Design<br/>Marketing<br/>Mass Media<br/>Photo Journalism<br/>Robotics<br/>Science of Animal Agriculture<br/>Sustainability Engineering<br/>Video Game Design I<br/>Video Game Design II<br/>Web Page Design</p> <p><u>CPACTC Shops</u><br/>Advanced Manufacturing Technology<br/>Advertising, Art, and Design<br/>Automation, Robotics, and Electronics<br/>Computer Networking<br/>Computer Programming<br/>Logistics and Warehouse Management</p> | <p>Animal Science<br/>AP Studio Art<br/>Architectural Design<br/>Babysitting/Aquatic Games<br/>Ceramics I<br/>Ceramics II<br/>Civil Engineering<br/>Computer Science Principles<br/>Computer Science with Python<br/>Creative Writing<br/>Design and Innovation Workshop<br/>Design Thinking 101<br/>Digital Photography I<br/>Digital Photography II<br/>Draw/Painting I<br/>Drawing &amp; Painting II<br/>Electronics<br/>Engineering Design<br/>English - Opus<br/>Equine Science<br/>Essential Home Projects<br/>Event Planning<br/>Exploring World Tourism<br/>Fish and Wildlife Management I<br/>Food Science and Safety<br/>Graphics with Python<br/>Honors Drawing &amp; Painting III<br/>Honors Tech Edu Capstone<br/>iNCubatoredu<br/>Intro Psychology<br/>Intro to Agribusiness<br/>Intro to Drafting<br/>Intro to Film<br/>JAVA<br/>Business 101<br/>Leadership Development<br/>Living on Your Own<br/>Mathematical Modeling - Cogito<br/>Music Technology Lab I<br/>Music Technology Lab II</p> | <p>Photo Journalism<br/>Robotics<br/>Science of Animal Agriculture Sculpture I<br/>Sculpture II<br/>SkyOp Drones<br/>Small Animal Science<br/>Small Gas Engines<br/>Sociology<br/>Sports &amp; Entertainment Management<br/>Sports in Society<br/>Statistics<br/>Structural Engineering<br/>Sustainability Engineering<br/>Veterinary Science<br/>Video Game Design I<br/>Video Game Design II<br/>Web Page Design<br/>Welding<br/>Wood Production<br/>Wood Tech I</p> <p><u>CPACTC Shops</u><br/>Advanced Manufacturing Technology<br/>Advertising, Art, and Design<br/>Auto Collision and Repair<br/>Automation, Robotics, and Electronics<br/>Automotive Technology<br/>Carpentry<br/>Computer Programming<br/>Cosmetology<br/>Criminal Justice<br/>Culinary Arts<br/>Dental Assistant<br/>Diesel Technology<br/>Early Childhood Education<br/>Electrical Construction and Maintenance<br/>Horticulture and Landscaping<br/>HVAC/R<br/>Logistics and Warehouse Management<br/>Masonry<br/>Nursing<br/>Welding</p> |

| Students must earn these competency areas in grades 11-12                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                      |                                                                                                                                                                                                        |                                                                                                                                                                                     |
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| Global Studies                                                                                                                                                                                                                    | Numerical Analysis                                                                                                                                                                                                                                                                                                                                                                                                               | Lab Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Literature                                                                                                                                           | Research Writing                                                                                                                                                                                       | Wellness                                                                                                                                                                            |
| <p>World Studies<br/>Honors World Studies<br/>AP World History<br/>French III<br/>Geography<br/>Hispanic Pop Culture<br/>Military History<br/>Honors Military History<br/>Music History<br/>Spanish III<br/>Honors Spanish IV</p> | <p>Accounting I<br/>Accounting II<br/>Algebra II<br/>Honors Algebra II<br/>AP Calculus AB<br/>AP Calculus BC<br/>AP Physics C: Mechanics<br/>Geometry<br/>Honors Geometry<br/>Honors Trigonometry<br/>JAVA<br/>Mathematical Modeling - Cogito<br/>Physics I<br/>Honors Physics II<br/>Pre-Calculus<br/>Honors Pre-Calculus<br/>Statistics<br/>AP Statistics</p> <p><u>CPACTC Shops</u><br/>Advanced Manufacturing Technology</p> | <p>Anatomy and Physiology<br/>Animal Science<br/>AP Biology<br/>Biotechnology<br/>College Prep Chemistry<br/>AP Chemistry<br/>Earth and Space Science<br/>Electronics<br/>Environmental Science<br/>AP Environmental Science<br/>Food Science and Safety<br/>Honors Tech Edu Capstone<br/>Intro to Forensics<br/>Marine and Ocean Studies<br/>Microbiology<br/>Physics I<br/>Honors Physics II<br/>AP Physics C: Mechanics<br/>Plant &amp; Greenhouse Science<br/>Robotics<br/>Veterinary Science</p> <p><u>CPACTC Shops</u><br/>Advanced Manufacturing Technology<br/>Auto Collision and Repair<br/>Automation, Robotics, and Electronics<br/>Automotive Technology<br/>Carpentry<br/>Culinary Arts<br/>Dental Assistant<br/>Diesel Technology<br/>Electrical Construction and Maintenance<br/>Horticulture and Landscape<br/>HVAC/R<br/>Masonry<br/>Nursing<br/>Welding</p> | <p>AP English Language<br/>AP English Literature<br/>College Prep Literature<br/>Real World Literature<br/>Honors French IV<br/>Honors Spanish V</p> | <p>AP English Language<br/>AP English Literature<br/>College Prep Writing<br/>English - Opus<br/>Real World Research<br/>Advanced FFA Leadership<br/>The Visual Experience<br/>Medical Terminology</p> | <p>Babysitting/Aquatic Games<br/>Elem Water Safety<br/>Healthy Relationships/PE<br/>Life Guarding<br/>Mental Health/PE<br/>Personal Fitness &amp; Nutrition<br/>Weight Training</p> |