



The Wallenpaupack Area School District does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities and provides equal access to the Boy Scouts and other designated youth groups. The following person has been designated to oversee inquiries regarding the non-discrimination policies. Dr. Keith Gunuskey, Superintendent, 2552 Rt. 6, Hawley, PA, 18428 Telephone (570) 226-4557.

## Note from the Principal

### Scheduling changes and deadlines

Course selection is a critical step in the academic process. Course selection should be done slowly, thoughtfully, and carefully after realistic self-evaluation and considerable dialogue with your teachers, your counselors, and your parents/guardians. The Wallenpaupack Area staff believes that accepting responsibility for decisions is an integral part of the educational and learning process. Accordingly, high school students must learn to be responsible for all decisions concerning course selection. For this reason, students will be held responsible for all decisions regarding choice of courses. No schedule changes will be approved after **Friday, June 12, 2026**. Please note this important deadline which pertains to both semester 1 and semester 2 schedules.

Travis Ey  
High School Principal

## Course Selection Information

Course description booklets are available on-line:

<https://www.wallenpaupack.org/wahs/scheduling.asp>.

***Each year you should meet with your counselor to review your credits, discuss your plans and help you decide which courses to take. Each student receives a course request form to be signed by a parent/guardian. It is understood that if this form is not returned with a parental signature by the due date, parental permission is assumed.***

The high school day is divided into four (4) blocks of eighty-four (84) minutes each. All courses are scheduled for 18 weeks (1 semester) with the exception of Band, Concert Choir, Advanced Placement courses and all career and technical education courses. Full credit (1) is given to a course which meets 5 days a week. A half credit (.5) is given to a course which meets every other day for one semester.

- All students in grades 9, 10, and 11 must schedule a minimum of three and a half (3 ½) blocks each semester. Please note: students planning to graduate early should schedule 4 blocks each semester.
- All students in Grade 12 must schedule 3 ½ blocks during semester one.
- Seniors who opt to take advantage of accelerated graduation are permitted to schedule only those credits needed to fulfill the graduation requirement during semester two.
- A student may repeat a course to improve understanding of the material or to raise a grade but will not receive a second credit if credit was awarded for the first time the course was taken.
- While every effort will be made to honor student course requests, the placement of individual classes may be changed by the school administration to meet scheduling demands.
- Some courses listed in the Course Selection Guide may not be offered due to lack of sufficient student requests.
- Courses dropped, with administrative approval, will result in a "0" for the course.

***Students in grades 9, 10, 11 or their parents may not request schedule changes after June 12, 2026. This pertains to both semester 1 and semester 2 schedules. Seniors may change semester 2 schedules until January 3, 2027. Counselors will adjust schedules in the event of course failures.***

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## Wallenpaupack Area High School

Wallenpaupack Area High School is located in the Pocono Mountains of Northeastern Pennsylvania on US Route 6, one mile east of the town of Hawley. The principal routes of access to the Lake Wallenpaupack region are US Interstate 84, US Route 6 and PA Routes 402, 590 and 507. The school district is located in a predominantly rural setting, drawing its students from a 352 square mile area.

Formerly a region of small manufacturing, canal transport, lumbering and farming, the present focal point of the area's economic life is Lake Wallenpaupack with its related resort and vacation enterprises.

The Wallenpaupack Area High School serves a student population of approximately 1086 students in grades 9, 10, 11 and 12, and employs 168 faculty members. Wallenpaupack Area High School is fully accredited by the Middle States Association of Colleges and Schools, Commission of Secondary Schools.

Curriculum options available include college preparatory and career programs of study. Support programs such as a math tutoring lab, English lab and computer labs are available to all students desiring assistance. Special education programs meet the needs of classified students. Co-curricular activities at the high school include the following:

### Activities and Clubs

Ambassador	Local History Club
Art Club	Marching Band
Aevium Club	National Honor Society
Aviation Club	Paupack United
Band Font	Scholastic Team
Central Treasurer	Science Olympiad
Chess Club	Show Choir
Color Guard	Skills U.S.A.
Concert Band	Spring Musical
Environmental Club	Stage Crew
Family, Career & Community Leaders of America (FCCLA)	Student Council
Future Business Leaders of America (FBLA)	Students Against Destructive Decisions (S.A.D.D.)
Future Health Professional (HOSA)	Technology Student Association
Guitar Club	Video Club
High Performance Club	Volunteers in Paupack
Instrumental Music	Weight Training
Literary Magazine	World Language Club
	Yearbook

## Interscholastic Sports

Baseball	Soccer - Girls
Basketball - Boys	Softball
Basketball - Girls	Swimming - Boys
Coed Cheerleading	Swimming - Girls
Competitive Spirit	Tennis - Boys
Cross Country - Boys	Tennis - Girls
Cross Country - Girls	Track & Field - Boys
Field Hockey	Track & Field - Girls
Football	Wrestling - Boys
Golf - Boys	Wrestling - Girls
Golf - Girls	Unified Bocce
Lacrosse - Girls	United Track & Field
Soccer - Boys	

## Planning Your Future

### Graduation Requirements

A student must acquire a minimum of 27 credits to graduate. These credits must include the following:

- AP Personal Finance 1 credit
- English 4 credits
- Math 4 credits (only one credit given for Algebra I A/B)
- Social Studies 4 credits
- Science 3 credits
- Electives 8 credits
- Freshman Seminar 0.5 credit required for all Freshmen.
- Sophomore Seminar 0.5 credit required for all Sophomores.
- Junior Seminar 0.5 credit required for all Juniors.
- Senior Seminar 0.5 credit required for all Seniors.
- Physical Education and Health/Driver Education 0.5 credit required 4 courses over four years.

WAHS students, including those in WVA (Wallenpaupack Virtual Academy), may take up to 8 credits in a school year.

### Keystone Exams

Beginning with the graduating class of 2023, students will be required to demonstrate proficiency in end-of-course Algebra I, Literature, and Biology Keystone Exams to graduate.

Act 158 of 2018 (Act 158), signed into law by Governor Tom Wolf on October 24, 2018, provides alternatives to Pennsylvania's statewide requirement of attaining proficiency on the three end-of-course Keystone Exams (Algebra I, Literature, and Biology) for a student to achieve statewide graduation requirements.

Effective with the graduating class of 2023, students can demonstrate postsecondary preparedness through one of four additional pathways that more fully illustrate college, career, and community readiness. Keystone Exams will continue as the statewide assessment Pennsylvania uses to comply with accountability requirements set forth in the federal Every Student Succeeds Act (ESSA).

## Graduation Pathways

**Keystone Proficiency Pathway** - students who achieve proficient or advanced scores in the three (3) Keystone Exams administered after a Keystone triggered course.

- These exams include Algebra, Literature & Biology. After completion of the Keystone Exams, students who do not earn proficiency on all three Keystone exams have additional pathways to achieve this graduation requirement.

**Keystone Composite Pathway** - students who earn a combined score of at least 4452 on all three exams.

- Students with this minimum combined score must earn at least one proficiency score & cannot earn below basic for any of the three Keystone Exams.

### Alternative Pathway Options:

**CTE Pathway** - students who participate in one of our ten Career and Technical Education Programs.

**Alternative Assessment Pathway** - students who earn a qualifying score on an alternative assessment.

Qualifying scores and assessments include:

- [PSAT/NMSQT](#)
- [ASVAB \(Armed Services Vocational Aptitude Battery\)](#)
- [SAT \(Scholastic Aptitude Test\)](#)
- [ACT \(American College Testing\)](#)

### Evidence Based Pathway:

- [Graduation Pathways Graphic](#)

For further information please visit:

- <https://pdesas.org/Frameworks/DCEToolKit/Act158PathwaysToGraduationToolkit>



## NCAA Academic Standards

Students who wish to participate in athletics as a first-year student in college must meet the NCAA academic standards. Students must apply for the NCAA certification before graduation. For information regarding these standards and the application procedure, see your counselor or visit:

<https://www.ncaa.org/>

DIVISION I	DIVISION II
<b>16 Core Courses:</b>	<b>16 Core Courses</b>
4 years of English	3 years of English
3 years of Mathematics (Algebra I or higher)	2 years of Mathematics (Algebra I or higher)
2 years of Natural/Physical science (1 year of lab if offered by high school)	2 years of Natural/Physical Science (1 year of lab if offered by high school)
1 year of additional English, Mathematics or Natural/Physical science	3 years of additional English, Mathematics or Natural/Physical science
2 years of Social Science	2 years of Social Science
4 years of additional courses (from any area above, World Language or comparative religion/philosophy)	4 years of additional courses (from any area above, World Language or comparative religion/philosophy)

### Core Courses

- NCAA Divisions I and II require 16 core courses.
- NCAA Division I require 10 core courses to be completed prior to the seventh semester (seven of the 10 must be a combination of English, Math or Natural or Physical Science that meet the distribution requirements. These 10 courses become “locked in” at the start of the seventh semester and cannot be retaken for grade improvement.
- It is possible for a Division I college-bound student-athlete to still receive athletics aid and the ability to practice with the team if he or she fails to meet the 10-course requirement but would not be able to compete during their first year.

If you have any questions about NCAA eligibility, please call the NCAA initial-eligibility clearinghouse toll-free at 877-262-1492. You may also call the NCAA at 317-917-6222.

### Request for Records

To meet deadlines, forms to be completed by school counselors and teachers must be submitted at least **2 weeks in advance of due dates**.

### Scheduling Options

To assist students in organizing their high school educational plans, brief descriptions of available programs of study are [outlined in subsequent pages](#).

## Accelerated Graduation/Senior Early Dismissal

Seniors who have completed all courses required for graduation and have scored proficient or advanced on the state assessments may graduate at the end of the fall semester. Seniors must schedule at least 3.5 credits for the fall semester. During the spring semester seniors may elect to schedule only those courses required for graduation and then be dismissed early. Students are responsible for their own transportation. Requests for participation in the accelerated graduation program must have age-appropriate parental approval and will be processed on a space available basis. Course availability and class size limitations may require students to schedule courses in the spring semester. Yearlong part-time attendance will not be permitted.

### Program participants:

- Must have scored proficient or advanced on the state assessments.
- May not leave before the end of the first semester.
- Must accept responsibility for meeting graduation requirements. Students who schedule the exact number of credits needed to graduate and then fail a course will not graduate and will not participate in Baccalaureate and Commencement.
- Are responsible for obtaining information on scholarship opportunities and commencement.
- Must schedule 3.5 credits in order to participate in spring co-curricular activities.
- Must schedule 2.5 credits to continue Social Security student benefit eligibility.
- Must attend all graduation practices.
- Must leave school grounds at the close of scheduled classes unless given permission to remain by an administrator.
- Must demonstrate continued good citizenship during the spring semester preceding graduation as determined by the school administration or participation in commencement ceremonies may be denied.

## Dual Enrollment Program

Wallenpaupack Area High School has been approved by the Pennsylvania Department of Education (PDE) to partner with eligible colleges and universities to offer high school seniors and juniors the chance to earn college credit, at reduced cost, while completing their high school requirements. Students are responsible for all tuition and fees. See your school counselor for more information.

## SOAR

SOAR is the career and technical educational plan that aligns, through articulation agreements, the secondary career and technical programs to a postsecondary diploma, credential or associate degree. SOAR programs lead students into a career pathway that is in high demand by employers, have higher skill needs, and are most likely to provide family sustaining wages. For more information see your School Counselor and visit <https://www.collegetransfer.net/>

### Benefits of SOAR:

- Saving Money on College Tuition
- Saving Time by Shortening College Attendance
- Getting on the Right Career pathway
- Entering the Job Market Ready
- Getting a Consistent Education

## Career and Technical Education

### What is career and technical education?

*CTE has a long and rich history in the United States. Today's CTE has evolved from a limited number of vocational programs available at the turn of the 20th century into a broad system that encompasses a variety of challenging fields in diverse subject areas which are constantly evolving due to the changing global economy.*

### **Today's CTE provides students:**

- Academic subject matter taught with relevance to the real world.
- Employability skills, from job-related skills to workplace ethics
- Career pathways that link secondary and postsecondary education
- Education for additional training and degrees, especially related to workplace training, skills upgrades, and career advancement.

### **Programs of Study**

- Prepare high school graduates for postsecondary education, apprenticeships, or entry into the workforce in their career related field.
- Identify relevant secondary academic and technical courses required for postsecondary enrollment and/or entry into the workforce.
- Align with postsecondary options and offer college credit for specific high school academic and technical courses.
- Recognize schools that meet academic and technical program benchmarks.
- Prepare all career and technical programs to align with the Pennsylvania High Priority Occupations that support family-sustaining wages.
- Focus on preparing students with industry certifications and high-level STEM (science, technology, engineering, and math) skills.

Programs of Study (POS) are designed to provide students with the recommended academic and technical courses needed for employment in a Pennsylvania High Priority Occupation. Students may choose from the following Programs of Study beginning in their sophomore year:

- Allied Health
- Automotive Technology
- Aviation
- Building Construction Trades
- Child Care
- Culinary Arts
- Engineering Technology
- Exercise Science and Sports Medicine
- Outdoor Power Equipment
- Protective Services

Students must take the appropriate Introduction course. Upon completion of the course, students must complete an application. CTE teachers will review applications and select students based on a rubric.

## Academic Challenge Levels

### College and Career Ready

College and Career Ready (CCR) means that students graduate from high school prepared to enter and succeed in postsecondary opportunities—whether college, university, or career—without need for remediation. To be College and Career Ready, students must graduate with the knowledge, skills, and dispositions necessary to succeed. The content knowledge and skills high school graduates must possess in academic courses includes, but is not limited to, reading, writing communications, teamwork, critical thinking, and problem solving. College and Career Ready (CCR) courses are developed to strengthen content knowledge through the application of learning to problem solving contexts.

### Honors

Honors courses provide students with the same set of skills that Career and College Ready courses do only at a more rigorous pace.

### Advanced Placement

Our twelve Advanced Placement courses are based on curricula developed by the College Entrance Examination Board. Such courses are introductory college level courses which may enable students to receive college credit upon successfully passing the College Entrance Examination Board Advanced Placement Examination. All students are required to take the Advanced Placement Exam at the end of the course.

## Career Academies at Wallenpaupack Area High School

Career Academies consist of small learning communities that aim to create a more personalized and supportive learning environment for students and teachers. They combine academic and career-related courses to enhance both the rigor and the relevance of the high school curriculum. Career Academies form partnerships with local employers to expand students' exposure to career options and skills requirements and to provide them with work-based learning experiences. The primary goals of the Career Academy approach are to enhance students' engagement and performance in high school and provide them with the credentials and skills needed to make successful transitions to post-secondary education and, eventually, a career.

### Freshman Academy

The Freshman Academy is focused on the alignment of individual strengths and interests to broad career fields. The Freshman Academy emphasizes strengthening foundational literacy, numeracy, and problem-solving skills that enhance the application of knowledge to unknown contexts through engaging classroom experiences. Each freshman participates in a Seminar Course designed to develop a Career Education Plan. This plan assists freshmen in scheduling into a pathway beginning in 10<sup>th</sup> grade.

### 10th, 11th, 12th Grade Academies

#### Academy 1

- HS00901 Automotive Technology\*
- HS00902 Building Construction Trades\*
- HS00903 Conservation and the Environment
- HS00905 Liberal Arts
- HS00907 Outdoor Power Equipment Technology\*
- HS00906 Visual Fine Arts

#### Academy 2

- HS14002 Allied Health\*
- HS00805 Child Care\*
- HS00801 Education and Human Services
- HS00803 Exercise Science and Sports Medicine\*
- HS00802 Medical Sciences
- HS00804 Protective Services\*

#### Academy 3

- HS00705 Aviation\*
- HS00702 Business
- HS00703 Computer Science and Programming
- HS00701 Culinary Arts\*
- HS00704 Engineering Technology\*

*\*Indicates an established Career and Technical Education Program*

## Academy 1

### Automotive Technology CTE

Careers in the maintenance, repair, and enhancement of automobiles and other types of vehicles. Certificates in automotive technology offer an array of options for interested students. Automotive technology programs include courses on service and maintenance, mechanical design, collision science, alternative fuel systems, shipping logistics, and more. Studying in the automotive technology pathway is a step toward a variety of careers, which may include (but are not limited to):

- |                                    |                              |
|------------------------------------|------------------------------|
| ➤ Automotive Service Technician    | ➤ Motorcycle Technician      |
| ➤ Automotive Technology Specialist | ➤ Power Equipment Technician |
| ➤ Collision Repair Entry-Level     | ➤ Researcher                 |
| ➤ Diesel Technician                | ➤ Salesperson/Parts          |
| ➤ Electronic Equipment Installer   | ➤ Service Manager            |
| ➤ Marine Service Technician        | ➤ Welder                     |

**Completer:** To fulfill completer requirements, students must complete the courses as described below within their pathway, in addition to the regular graduation requirements:

- Automotive Technology I (2 credits) (Grade: 10)
- Automotive Technology II (2 credits) (Grade: 11)
- Automotive Technology III (2 credits) (Grade: 12)
- English 11 - Embedded Course (1 credit) (Grade: 11)
- CTE Consumer Math – Embedded Course (1 credit) (Grade: 12)

#### Recommended Automotive Pathway Courses:

- Engineering & Design (1 credit) (Grades: 10, 11, 12)  
**Prerequisite: Intro to Engineering Technology or department approval**
- Robotics (1 credit) (Grades: 10, 11, 12)

#### Certifications Available for Completers in the Automotive Pathway:

- Automotive Scanner Diagnostics – Snap-On
- AYES Certificate - Automotive Youth Educational Systems
- Battery Starting and Charging System – AC Delco
- CAIS Certification - ALLDATA
- Certified Emissions Inspector – Pennsylvania Department of Transportation
- Electrical State 1 & 2 – AC Delco
- Lifting it Right – Automotive Lift Institute
- Meter Certification – Snap-On
- NC3 Electronics/ Electrical Certification (ASE) – Natl Automotive Technicians Education Foundation Certifications

**Certifications Available for Completers in the Automotive Continued:**

- OSHA 10 Hours – CareerSafe
- S/P2 – Automotive Safety Pollution Prevention – S/P2
- S/P2- Automotive Service Safety – S/P2
- Shop Key Level 1 Certificate – Shop
- Valvoline Automotive Chemicals 101 – S/P2
- Valvoline Motor Fluids – S/P2
- Valvoline Motor Oil – S/P2
- WD 40 – S/P2

## **Building Construction Trades CTE**

The Building Construction program prepares individuals to apply technical knowledge and skills in the erection and installation of buildings and other structures using assorted materials such as metal, wood, stone, brick, glass, concrete and composition substances. Instruction is provided in the basic skills of carpentry, masonry, plumbing, heating, electrical, painting, decorating, and a variety of activities associated with building construction. Some of these activities include but are not limited to blueprint reading; cost estimating; the use of a variety of hand and power tools; cutting, fitting, fastening and finishing various materials; and applying technical specifications and knowledge concerning the physical properties of materials. Careers may include (but are not limited to):

- Brick Mason
- Carpenter
- Construction Manager
- Electrician
- Pipelayer
- Plumber
- Solar Energy Installation Manager
- Stonemason

**Completer:** To fulfill completer requirements, students must complete the courses as described below within their pathway, in addition to the regular graduation requirements:

- Building Construction I (2 credits) (Grade: 10)
- Building Construction II (2 credits) (Grade: 11)
- Building Construction III (2 credits) (Grade: 12)
- English 11 CTE – Embedded course (1 credit) (Grade: 11)
- CTE Consumer Math – Embedded course (1 credit) (Grade: 12)

### **Recommended Building Construction Pathway Courses:**

- Art for Engineering (.5 credit) (Grades: 10, 11, 12)
- Basic Drawing (0.5 credit) (Grades: 10, 11, 12)
- Ceramics and Sculpture (.5 credit) (Grades: 10, 11, 12)
- Engineering & Design (1 credit) (Grades: 10, 11, 12)

**Prerequisite: Intro to Engineering Technology or department approval.**

- Residential Architecture (1 credit) (Grades: 10, 11, 12)

### **Certifications Available for Completers in the Building Construction Pathway:**

- Articulated Ladder Certification - American Ladder Institute
- Employability Skills – CareerSafe
- Mobile Ladder Certification - American Ladder Institute
- OSHA Construction Trades I – CareerSafe
- Single and Extension Ladder Certification – American Ladder Institute
- Step Ladder Certification – American Ladder Institute

## Conservation and Environment Pathway

Careers in protecting, preserving, and enhancing our natural resources. Further, studies in conservation and the environment can help prepare students for careers in agriculture, public service, law enforcement, and business. Careers may include (but are not limited to):

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>➤ Oceanographers</li> <li>➤ Meteorologists</li> <li>➤ Microbiologists</li> <li>➤ Soil and Plant Scientists</li> </ul> | <ul style="list-style-type: none"> <li>➤ Ecologists</li> <li>➤ Wildlife Managers</li> <li>➤ Zoologists</li> <li>➤ Horticulturists</li> </ul> |
|--|--|

**Completer:** To fulfill completer requirements, students must complete the courses as described below within their pathway, in addition to the regular graduation requirements:

- Issues in Environmental Science I (1 credit) (Grades: 11, 12)
- Chemistry I (1 credit) (Grades: 10, 11, 12)
- Physics I (1 credit) (Grades: 10, 11, 12)
- Diversity of Life (1 credit) (Grades: 11, 12)
- Issues in Environmental Science II (1 credit) (Grades: 11, 12)

Choose at least 1 credit worth of courses from the list of recommended courses for your pathway (1 credit minimum)

### Recommended Conservation and Environment Pathway Courses:

- Chemistry II (1 credit) (Grades: 10, 11, 12)
- Art for Sciences (0.5 credit) (Grades: 10, 11, 12)
- AP Biology (1.5 credits) (Grades: 11, 12)
- Physics II (1 credit) (Grades: 10, 11, 12)
- AP Chemistry (1.5 credits) (Grades: 11, 12)
- World Language (Spanish, French, German) (1 credit) (Grades: 10, 11, 12)
- Modern American Government (1 credit) (Grades: 11, 12)
- Residential Architecture (1 credit) (Grades: 10, 11, 12)
- Earth Space Science (1 credit) (Grades: 10, 11, 12)

### Certifications Available for Completers in the Conservation and Environment Pathway:

- Employability Skills – CareerSafe

## Liberal Arts Pathway

Careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, and entertainment services. A broad overview of the arts, sciences, and humanities, including languages, music, English, anthropology, history, psychology, math, political science, or many other disciplines. Careers may include (but are not limited to):

- Animator
- Commercial/Industrial Designer
- Composer
- Digital Illustrator
- Film/Video Editor
- Graphic Designer
- Illustrator
- Medical Illustrator
- Museum Curator
- Music Director
- Painter
- Photographer
- Producer
- Radio/Television Announcer
- Sculptor
- Set Designer
- Technical Director
- Technical Writer

**Liberal Arts Completer:** To be a completer in the Liberal Arts Pathway, a student must select a focus within the pathway. There are five areas of focus within the Liberal Arts Pathway.

1. Journalism and Media
2. Liberal Arts
3. Music Performance
4. Theatre
5. Video Production

In addition to the regular graduation requirements, students must complete the courses as described below within their selected focus.

**Journalism and Media Focus:** A student must take all of the courses listed below to be a completer in the Journalism and Media Pathway.

- Intro to Visual Art I (.5 credit) (Grades: 10, 11, 12)
- Intro to Visual Art II (.5 credit) (Grades: 10, 11, 12)
- Intro to Journalism (.5 credit) (Grades: 10, 11, 12)
- Video Production I (1 credit) (Grades: 10, 11)
- Photography I (1 credit) (Grades: 10, 11, 12)
- Photoshop Basics (0.5 credit) (Grades: 10, 11, 12)

Choose at least 1.5 credits worth of courses from the list of recommended courses for your pathway (1.5 credits minimum)

**Liberal Arts Focus:** Students will collaborate with their school counselor to select 6.5 credits of coursework in the subject areas of English, Social Studies, and World Language based on their interests.

**Music Performance Focus:** A student must take all of the courses listed below to be a completer in the Music Performance Focused Pathway:

- Music Appreciation (0.5 credit) (Grades: 10, 11, 12)
- Music Theory (1 credit) (Grades: 10, 11, 12)
- AP Music Theory (1 credit) (Grade: 12)
- Band and/or Chorus (1 credit per year/up to 4 credits) (Grades: 10, 11, 12)

The number of additional credits to be selected from the list of Recommended Pathway Courses. Pathway Courses will vary depending on how many years a student takes Band and/or Chorus. 6.5 total credits are required to be a completer in this focused pathway.

**Theatre Focus:** A student must take all of the courses listed below to be a completer in the Theatre Focused Pathway:

- Acting I (0.5 credit) (Grades: 11,12)
- Dance (0.5 credit) (Grades: 10,11,12)
- Directing (.5 credits) (Grades: 9, 10, 11, 12)
- Fashion & Costumes Through The Ages 1,2 (0.5 credit) (Grades:10,11,12)
- Public Speaking (0.5 credit) (Grades: 10,11,12 )
- Stunts & Action (0.5 credit) (Grades:10,11,12)
- Technical Theatre Act I (0.5 credit) (Grades: 10,11,12)

Choose at least 3 credits worth of courses from the list of recommended courses for your pathway (3 credit minimum)

**Video Production Focus:** A student must take all of the courses listed below to be a completer in the Video Production Focused Pathway:

- Intro to Visual Art I (.5 credit) (Grades: 10, 11, 12)
- Intro to Visual Art II (.5 credit) (Grades: 10, 11, 12)
- Photography I (1 credit) (Grades: 10, 11, 12)
- Photoshop Basics (0.5 credit) (Grades: 10, 11, 12)
- Illustration (0.5 credit) (Grades: 10, 11, 12)
- Video Production I (1 credit) (Grades: 10, 11)
- Advanced Video Production (1 credit) (Grades: 11, 12)

Choose at least 1 credit worth of courses from the list of recommended courses for your pathway (1 credit minimum)

**Students will be responsible for signing out equipment while working on location and studio production.**

**Certifications Available for Completers in the Liberal Arts Pathway:**

- Employability Skills – CareerSafe

## **Outdoor Power Equipment Technology CTE**

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Careers in the maintenance, repair, and service of outdoor power equipment and powersports vehicles. Certificates in outdoor power equipment technology offer an array of options for interested students. The Outdoor Power Equipment Technology programs include courses on repair, service and maintenance and more. Studying in the outdoor power equipment technology pathway is a step toward a variety of careers, which may include (but are not limited to):

- All-terrain Vehicle Technician
- Marine Service Technician
- Motorcycle Technician
- Outdoor Power Equipment Technician
- Parts Manager
- Personal Watercraft Technician
- Salesperson
- Service Manager
- Small Diesel Engine Technician
- Small Engine Technician
- Snowmobile Technician
- Utility Vehicle Technician
- Welder

**Completer:** To fulfill completer requirements, students must complete the courses as described below within their pathway, in addition to the regular graduation requirements:

- Outdoor Power Equipment Technology I (2 credits) (Grade: 11)
- Outdoor Power Equipment Technology II (2 credits) (Grade: 12)
- English 11 - Embedded Course (1 credit) (Grade: 11)
- CTE Consumer Math – Embedded Course (1 credit) (Grade: 12)

### **Recommended Automotive Pathway Courses:**

- Engineering & Design (1 credit) (Grades: 10, 11, 12)  
**Prerequisite: Intro to Engineering Technology or department approval**
- Robotics (1 credit) (Grades: 10, 11, 12)

### **Certifications Available for Completers in the Outdoor Power Equipment Technology Pathway:**

- Automotive Lift Inst. Lifting it Right – S/P2
- Compact Diesel Engine -Equipment & Engine Training Council
- Driveline Systems - Equipment & Engine Training Council
- Electrical Systems - Equipment & Engine Training Council
- Honda Engines – Honda Engines
- Lift It Right - Automotive Lift Institute
- Master Service Technician – Briggs & Stratton
- OSHA 10 – CareerSafe
- Outdoor Power Equipment Technician Certification – Equipment & Engine Training Council
- Principles of Small Engine Technology - Equipment & Engine Training
- S/P2 Automotive Service Safety – S/P2
- Snap On Multimeter Certification
- STIHL MasterWrench Service Technician-Bronze – STIHL
- Yamaha Intro to Jet Propulsion – Yamaha Motor University
- Yamaha Intro to Outboards Systems – Yamaha Motor University
- Yamaha Portable Maintenance Cert – Yamaha Motor University

## **Visual Fine Arts Pathway**

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Careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, and entertainment services. A broad overview of the arts, sciences, and humanities, including languages, music, English, anthropology, history, psychology, math, political science, or many other disciplines. Careers may include (but are not limited to):

- |                                  |                              |
|----------------------------------|------------------------------|
| ➤ Animator                       | ➤ Museum Curator             |
| ➤ Commercial/Industrial Designer | ➤ Music Director             |
| ➤ Composer                       | ➤ Painter                    |
| ➤ Digital Illustrator            | ➤ Photographer               |
| ➤ Film/Video Editor              | ➤ Producer                   |
| ➤ Graphic Designer               | ➤ Radio/Television Announcer |
| ➤ Illustrator Sculptor           | ➤ Set Designer               |
| ➤ Journalist                     | ➤ Technical Director         |
| ➤ Medical Illustrator            | ➤ Technical Writer           |

**Completer:** To be a completer in the Visual Fine Arts Pathway, a student must select a focus within the pathway. There are 4 areas of focus within the Visual Fine Arts Pathway.

1. Graphic Design
2. Video Production
3. Visual Art 2-D (painting, drawing, printmaking, graphic design)
4. Visual Art 3-D (sculpture, ceramics)

In addition to the regular graduation requirements, students must complete the courses as described below within their selected focus.

**Graphic Design Focus:** A student must take all of the courses listed below to be a completer in the Visual Arts Focused.

- Basic Drawing (0.5 credit) (Grades: 10, 11, 12)
- Graphic Design I (1 credit) (Grades: 10, 11, 12)
- Graphic Design II (1 credit) (Grades: 11, 12)
- Graphic Design III (1 credit) (Grades: 11, 12)
- Illustration (0.5 credit) (Grades: 10, 11, 12)
- Intro to Animation (0.5 credit) (Grade: 10)
- Intro to Print Making (0.5 credit) (Grade: 10,11,12)
- Intro to Visual Art I (0.5 credit) (Grades: 10, 11, 12)
- Intro to Visual Art II (0.5 credit) (Grades: 10, 11, 12)
- Photography I (1 credit) (Grades: 10, 11, 12)
- Photoshop Basics (0.5 credit) (Grades: 10, 11, 12)

**Video Production Focus:** A student must take all of the courses listed below to be a completer in the Video Production Focused Pathway:

- Illustration (0.5 credit) (Grades: 10, 11, 12)
- Intro to Visual Art I (.5 credit) (Grades: 10, 11, 12)
- Intro to Visual Art II (.5 credit) (Grades: 10, 11, 12)
- Photography I (1 credit) (Grades: 10, 11, 12)
- Photoshop Basics (0.5 credit) (Grades: 10, 11, 12)
- Video Production I (1 credit) (Grades: 10, 11)
- Advanced Video Production (1 credit) (Grades: 11, 12)

Choose at least 1 credit worth of courses from the list of recommended courses for your pathway (1 credit minimum)

**Students will be responsible for signing out equipment while working on location and studio production.**

**Visual Arts 2-D Focus:** A student must take all of the courses listed below to be a completer in the Visual Arts 2-D Focused Pathway.

- AP Studio Art: Drawing (1 credit) (Grades: 11, 12)
- AP Studio Art: 2-D Design (1 credit) (Grades: 11, 12)
- Fine Arts I (1 credit) (Grades: 10, 11, 12)
- Fine Arts II (1 credit) (Grades: 11, 12)
- Independent Fine Arts (1 credit) (Grades: 11, 12)
- Intro to Visual Art I (.5 credit) (Grades: 10, 11, 12)
- Intro to Visual Art II (.5 credit) (Grades: 10, 11, 12)
- Photography I (1 credit) (Grades: 10, 11, 12)

Choose at least 1.5 credits worth of courses from the list of recommended courses for your pathway (1.5 credits minimum)

**Visual Arts 3-D Focus:** A student must take all of the courses listed below to be a completer in the Visual Arts 3-D Focused Pathway.

- AP Studio Art: 3-D Design (1 credit) (Grades: 11, 12)
- Ceramics and Sculpture I (0.5 credit) (Grades: 10, 11, 12)
- Ceramics and Sculpture II (0.5 credit) (Grades: 10, 11, 12)
- Fine Arts I (1 credit) (Grades: 10, 11, 12)
- Independent Fine Arts (1 credit) (Grades: 11,12)
- Intro to Visual Art I (.5 credit) (Grades: 10, 11, 12)
- Intro to Visual Art II (.5 credit) (Grades: 10,11,12)

## Academy 2

### Allied Health CTE

Students will follow a curriculum that will teach them skills and theory pertaining to nursing and medical assisting. They will learn medical assistant-based content that will prepare students to become clinically certified medical assistants and pursue careers as future health professionals. Related career fields may include (but are not limited to):

- Biomedical Engineering
- Healthcare Administrator
- Healthcare Communications
- Licensed Practical Nurse (LPN)
- Medical Doctor
- Medical Laboratory Technology
- Nurse Practitioner
- Nursing/Medical Assistant
- Pharmacy
- Physician Assistant
- Radiologic Technologist
- Registered Nurse (RN)

**Completer:** To fulfill completer requirements, students must complete the courses as described below within their pathway, in addition to the regular graduation requirements:

- Allied Health I (2 credits) (Grade: 10)
- Allied Health II (2 credits) (Grade: 11)
- Allied Health III (2 credits) (Grade: 12)
- Chemistry I CTE – Embedded Course (1 credit) (Grades: 11)
- Anatomy and Physiology CTE – Embedded Course (1 credit) (Grade: 12)

**Recommended Allied Health Pathway Courses:**

- AP Biology (1.5 credits) (Grades: 11, 12)
- AP Chemistry (1.5 credits) (Grades: 11, 12)
- Chemistry II (1 credit) (Grades: 11, 12)
- Intro to Psychology (1 credit) (Grades: 11, 12)
- Physics I (1 credit) (Grades: 11, 12)
- Probability & Statistics (1 credit) (Grades: 11, 12)
- Sports Nutrition (0.5 credit) (Grades: 10, 11, 12)
- Spanish for Human Services (0.5 credit) (Grades: 10, 11, 12)

**Certifications Available for Completers in the Allied Health Focused Pathway:**

When students have satisfied completer requirements, the students will be eligible for taking the necessary exams for the following certifications:

- AED Essentials – American Red Cross
- American Heart Association
- Automated External Defibrillation (AED) – American Safety & Health Institute
- Basic First Aid – American Safety & Health Institute
- BLS Healthcare Provider – American Heart Association
- Certified Clinical Medical Assistant (CCMA) – National Healthcareer Association
- Certified Clinical Medical Assistant (CCMA) –National Healthcareer Association
- Child Abuse Education – University of Pittsburgh
- CPR – American Heart Association
- CPR & AED – American Safety & Health Institute
- CPR PRO – American Safety & Health Institute
- Employability Skills – CareerSafe
- First Aid – American Heart Association
- First Aid – American Red Cross
- Heartsaver AED – American Heart Association
- Heartsaver CPR – American Heart Association
- Heartsaver First Aid – American Heart Association
- HIPPA – CareerSafe
- Mandated Reporter – University of Pittsburgh
- Mandated Reporter – University of Pittsburgh
- OSHA 10-Hour General Industry – Healthcare – CareerSafe
- OSHA Certification – Bloodborne – CareerSafe
- OSHA Certification – Healthcare - CareerSafe
- Personal Protection Equipment – CareerSafe
- Report Child Abuse – University of Pittsburgh
- Stop the Bleed – StoptheBleed

## Child Care CTE

The Child Care program is designed for any student who may be considering a professional career working in child care or a child-related career such as: preschools, kindergarten programs, community daycare centers, before and after school daycare centers, private homes, educational consulting agencies, or early childhood classrooms. The program also begins to prepare the student to work towards the CDA-Ready Certification by developing a professional portfolio of resources, materials, and evidence of practical lab work. Each course consists of 1) the theory of early childhood education, 2) the planning of early childhood learning experiences, and 3) the clinical experience of working with children through the hands-on World of Wonders (WOW) child development lab. Three days per week, students will be working with children ages 3-5 in the WOW program. Careers may include (but are not limited to):

- |  |                              |
|--|------------------------------|
| ➤ Behavior Therapist                     | ➤ Parent Educator            |
| ➤ Child, Family, or School Social Worker | ➤ Personal or Home Care Aide |
| ➤ Child Care Worker/ Business Owner      | ➤ Preschool Teacher          |
| ➤ Camp Counselor                         | ➤ Recreation Worker          |
| ➤ Career and College Counselor           | ➤ School Counselor           |
| ➤ Director of Child Care Facility        | ➤ Social Services Worker     |
| ➤ Elementary or Secondary Teacher        | ➤ Sociologist                |
| ➤ Leisure Activities Counselor           | ➤ Special Education Teacher  |

**Completer:** To fulfill completer requirements, students must complete the courses as described below within their pathway, in addition to the regular graduation requirements:

- Child Care I (2 credits) (Grades: 10, 11, 12)
- Child Care II (2 credits) (Grades: 11, 12)
- Child Care III (2 credits) (Grades: 12)
- CTE Consumer Math – Embedded Course (1 credit) (Grade: 12)
- English 11 – Embedded Course (1 credit) (Grade: 11)

### Recommended Courses for Child Care Pathway:

- Intro to Psychology (1 credit) (Grades: 10, 11, 12)
- Holistic Fitness (0.5 credit) (Grades: 10, 11, 12)
- Art for Education (0.5 credit) (Grades: 10, 11, 12)
- Basic Drawing (0.5 credit) (Grades: 10, 11, 12)
- Probability and Statistics (1 credit) (Grades: 10, 11, 12)
- Spanish for Human Services (1 credit) (Grades: 10, 11, 12)
- Student Facilitators - Physical Ed (0.5 credit) (Grades: 10, 11, 12)
- Student Facilitators - Visuals Arts (0.5 credit) (Grades: 10, 11, 12)
- Student Facilitators - Performing Art (0.5 credit) (Grades: 10, 11, 12)

**Certifications Available for Completers in the Child Care Focused Pathway:**

When students in the Child Care Focused Pathway have satisfied completer requirements, the students will be eligible for the following certifications:

- Act 31 – Mandatory Reporter – Penn State Hershey Ctr for Protection of Children
- Act 31 – Mandatory Reporter – University of Pittsburgh
- Advanced Child Care – American Red Cross
- AED Essentials – American Red Cross
- Automated External Defibrillation (AED) – American Safety & Health Institute
- Babysitting Basics – American Red Cross
- Basic First Aid – American Safety & Health Institute
- BLS Healthcare Provider – American Heart Association
- CDA Ready Certificate – Bureau of Career and Technical Education / PDE
- Child Development Association (CDA) – Council for Professional Recognition
- Community First Aid and Safety – American Red Cross
- CPR & AED – American Safety & Health Institute
- CPR for Family and Friends – American Heart Association
- CPR PRO – American Safety & Health Institute
- DHS Fire Safety – PA Registry
- First Aid – American Red Cross
- Get Started with Center-Based Care - Penn State Extension
- Heartsaver AED – American Heart Association
- Heartsaver First Aid – American Heart Association
- Heartsaver Pediatric First Aid CPR AED – American Heart Association
- Infant and Child CPR – American Red Cross
- PA Keystone STARS – PA Registry
- PA Required Health and Safety for Centers – Group Child Care Part 1 – Penn State Extension
- PA Required Health and Safety for Centers – Group Child Care Part 2 – Penn State Extension
- SerSafe / Manager Food Safety certification – National Restaurant Association
- ServSafe Allergens Certification – ServSafe
- ServSafe Food Handler – ServSafe

## Education and Human Services Pathway

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To prepare students to excel in teacher or human service preparation programs by enriching their high school experiences with rigorous, rich, and meaningful curricula and innovative instruction enhanced by unique business community partnerships. Students in human services learn and practice skills that prepare them for diverse post-high school education and training opportunities from apprenticeships and two-year college programs to four-year college and graduate programs.

The Education Pathway provides students with the opportunity to participate in a variety of authentic off-site learning experiences such as Career Shadowing, Mentoring, Internship, and Extended Learning Experiences, Advisory Committees, Professional and Educational Facility Tours and Service-Learning Projects.

Students in this pathway will learn the basics of planning, managing, and providing education and training services. They will also learn related learning support services and how to prepare individuals for employment in career pathways that relate to families and human needs such as education, counseling and mental health services, family and community services, personal care, and consumer services. Careers may include (but are not limited to):

- |  |                              |
|--|------------------------------|
| ➤ Behavior Therapist                     | ➤ Parent Educator            |
| ➤ Business Owner                         | ➤ Personal or Home Care Aide |
| ➤ Camp Counselor                         | ➤ Preschool Teacher          |
| ➤ Career and College Counselor           | ➤ Recreation Worker          |
| ➤ Child, Family, or School Social Worker | ➤ School Counselor           |
| ➤ Elementary or Secondary Teacher        | ➤ Social Services Worker     |
| ➤ High School Teacher                    | ➤ Sociologist                |
| ➤ Leisure Activities Counselor           | ➤ Special Education Teacher  |

**Education and Human Services Focus:** A student must take all of the courses listed below to be a completer in the Education and Human Services Focused Pathway:

- Advanced Principles of Instruction: Literacy Option (or) Numeracy Option (1 credit) (Grades: 10, 11, 12)
- Education of Exceptional Children (1 credit) (Grades: 10, 11, 12)
- Human Growth and Development (1 credit) (Grades: 10, 11, 12)
- Intro to Education (0.5 credit) (Grades: 10, 11, 12)
- Leadership in Schools and Community (1 credit) (Grades: 10, 11, 12)
- Principles of Instruction: Literacy & Numeracy (1 credit) (Grades: 10, 11, 12)

**Certifications Available for Completers in the Education and Human Services Focused Pathway:**

When students in the Education and Human Services Focused Pathway have satisfied completer requirements, the students will be eligible for the following certifications:

- Pennsylvania Child Abuse History Certification (PA Department of Human Services)
- Pennsylvania State Police Criminal Record Check (PA State Police)
- Mandated Reporter Training (Penn State Hershey Center)
- Get Started with Center-Based Care: Building Blocks for Quality (Penn State Extension Better Kid Care)
- Employability Skills - CareerSafe
- CDA – Ready Certificate (PA Department of Education)
- ServSafe Allergen (National Restaurant Association)
- ServSafe Food Handler (National Restaurant Association)

## Exercise Science and Sports Medicine CTE

Exercise Science and Sports Medicine program covers the topics of legal and ethical issues, emergency care and infection control, functional anatomy, injury prevention, injury treatment and rehabilitation, exercise physiology and sports psychology. Level I students will concentrate on functional anatomy and become certified in BLS and basic first aid. Level II students will do clinical rotations in the fall and then focus on exercise physiology in the spring. At the completion of this program, students will be able to take the (American College of Sports ACSM) national exam to become a certified personal trainer. Careers may include (but are not limited to):

- Athletic Trainer
- Cardiopulmonary Rehabilitation Specialist
- Dietitian/Sports Nutritionist
- Exercise Physiologist
- Fitness Director
- Kinesiologist
- Occupational Physiologist
- Orthopedic Specialist
- Personal Trainer
- Physical/Occupational Therapist
- Physician
- Sports Medicine

**Completer:** To fulfill completer requirements, students must complete the courses as described below within their pathway, in addition to regular graduation requirements:

- Exercise Science and Sports Medicine I (2 credits) (Grade: 11)
- Exercise Science and Sports Medicine II (3 credits) (Grade: 12)
- Anatomy and Physiology-CTE– Embedded Course (1 credit) (Grade: 11)
- Sports Nutrition (0.5 credit) (Grades: 11, 12)

**Recommended Exercise Science and Sports Medicine Pathway Courses:**

- Art for Science (0.5 credit) (Grades: 10, 11, 12)
- Athletic Performance (0.5) (Grades: 11, 12)
- Biomechanics in Movement and Sports (0.5 credit) (Grades: 11, 12)
- Chemistry I (1 credit) (Grades: 11, 12)
- Chemistry II (1 credit) (Grades: 11, 12)
- Intro to Psychology (1 credit) (Grades: 11, 12)
- Personal Fitness (0.5 credit) (Grades: 11, 12)
- Physics I (1 credit) (Grades: 11, 12)
- Probability and Statistics (1 credit) (Grades: 11, 12)
- Student Facilitators - Physical Education (1 credit) (Grades: 11, 12)

**Certifications Available for Completers in the Exercise Science and Sports Medicine Focused Pathway:**

When students have satisfied completer requirements, the students will be eligible for taking the necessary exams for the following certifications:

- Adult and Pediatric First Aid / CPR / AED – American Red Cross
- Bloodborne & Airborne Pathogens – National Safety Council
- BLS AED – American Heart Association
- BLS CPR – American Heart Association
- BLS Healthcare Provider – American Heart Association
- Cardiac Wise – Sports Safety International
- Concussionwise Certification – Sports Safety International
- CPR / BLS – American Safety & Health Institute
- CPR and AED – National Safety Council
- First Aid – National Safety Council
- Heart Wise - Sports Safety International
- Heartsaver CPR – American Heart Association
- Heartsaver First Aid – American Heart Association
- Heartsaver First Aid / CPR / AED – American Heart Association
- OSHA Certification – Healthcare – CareerSafe
- Physical Therapy Technician / Aide Certification – American Medical Certification Association
- Stop the Bleed – StoptheBleed

## Protective Services CTE

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Protective services occupations typically provide services such as protecting the public against danger, fighting fires, emergency response, enforcing safety rules and regulations, crime investigations, private detective work, and much more. Careers may include (but are not limited to):

- 911 Dispatcher
- Animal Control Workers
- Correctional Officers
- Emergency Medical Service Providers (Paramedic, EMT, etc.)
- Fire Fighters
- Fish and Game Wardens
- Gaming and Surveillance Officers and Gaming Investigators
- Inspectors and Investigators
- Police and Sheriffs Patrol Officers
- Private Detectives and Investigators
- Security Guards
- Ski Patrol, and Other Recreational Protective Service Workers
- Transit and Railroad Police
- Transportation Security Screener

**Completer:** To fulfill completer requirements, students must complete the courses as described below within their pathway, in addition to the regular graduation requirements:

- Protective Services I (3 credits) (Grade: 10)
- Protective Services II (3 credits) (Grade: 11)
- Protective Services III (3 credits) (Grade: 12)

### Recommended Courses in Protective Services Pathway:

- Anatomy & Physiology (1 credit) (Grades: 10, 11, 12)
- Biology (1 credit) (Grades: 10, 11, 12)
- Business Law (0.5 credit) (Grades: 10, 11, 12)
- Chemistry I (1 credit) (Grades: 10, 11, 12)
- Intro to Psychology (1 credit) (Grades: 11, 12)
- Modern American Government (1 credit) (Grades: 10, 11, 12)
- Personal Fitness (0.5 credit) (Grades: 10, 11, 12)
- Physics CTE (1 credit) (Grades: 10, 11, 12)
- Probability and Statistics (1 credit) (Grades: 11, 12)
- Student Facilitators (0.5 credit) (Grades: 10, 11, 12)
- Spanish for Human Services (0.5 credit) (Grades: 10, 11, 12)

**Certifications Available for Completers in the Protective Services Pathway:**

- Act 31 Mandated Reporter: Penn State Hershey Center for Protection of Children
- Advanced First Aid – American Safety & Health Institute
- Basic Wildland Firefighter / PA -130 – Pennsylvania State Fire Academy
- BLS Healthcare Provider – American Heart Association
- BLS Healthcare Provider – Pennsylvania Department of Health
- Certificate of Training – Hazardous Materials First Responder Awareness – PA State Fire Academy
- Certificate of Training – Incident Command System – PA State Fire Academy
- Certificate of Training – PA Essentials of Firefighter – PA State Fire Academy
- Certificate of Training – Recognition and Identification of Hazardous Materials – PA State Fire Academy
- CPR and AED – American Safety & Health Institute
- Emergency Medical Responder – Emergency Care & Safety Institute
- EMT – Pennsylvania Department of Health
- Fire Dynamics Fundamentals – PA State Fire Academy
- Fire Dynamics Strategies and Tactics – PA State Fire Academy
- Fire Fighter I – PA State Fire Academy
- First Responder – Pennsylvania Department of Health
- FSRI Online Bootcamp – Fire Safety Research Institute
- Hazardous Materials Response-Awareness – Michigan State Univer / Emergency Response Solutions
- NIMS IS 100 Series – Emergency Management Institute
- NIMS IS 200 Series – Emergency Management Institute
- NIMS IS 700 - Emergency Management Institute
- NIMS IS 800 - Emergency Management Institute
- OSHA 10 - CareerSafe
- Pediatric Emergency ASSESSMENT recognition and Stabilization (PEARS) – American Heart Association
- Public Safety Telecommunicator 1 – APCO institute
- Stop the Bleed – StoptheBleed
- Traffic Incident Management – Emergency Responder Training Institute
- Traffic Incident Management - Responder Safety

## Academy 3

### Aviation Pathway

The Wallenpaupack Aeronautical Science and Aviation CTE program offers students an opportunity to pursue specialized aviation curriculum that prepares students to pursue careers in the Professional Pilot, Air Traffic Control, Aviation Maintenance, and Aviation Management sectors of the Aviation industry. Coursework includes diverse curriculum closely mapped to the needs and demands of the aviation industry. The CTE graduates will be prepared to pursue one or more of the following aviation careers including (but not limited to):

- Aeronautical Engineer
- Aerospace Engineer
- Aerospace Program Manager
- Air Traffic Control Specialist
- Air Traffic Controller
- Aircraft Inspector
- Flight Instructor
- Avionics Technician
- Line Service Technicians
- Aviation Safety Inspector
- Flight Dispatcher
- Inflight Supervisor
- Airline Pilot
- Aircraft Maintenance Mechanic
- Airfield Operations Specialist
- Airport Engineer
- Airport Manager
- Airspace System Inspector
- Corporate Pilot
- Flight Attendant
- Military Pilot
- Charter Pilot
- Fixed Base Operator
- NTSB Investigation

**Completer:** To fulfill completer requirements, students must complete the courses as described below within their pathway, in addition to the regular graduation requirements:

**TBD**

#### Recommended Courses in the Aviation Pathway:

- Earth Space Science (1 credit) (Grades: 10, 11, 12)
- Entrepreneurship (0.5 credit) (Grades: 10, 11, 12)
- Geometry (1 credit) (Grades: 10, 11)
- Physics (1 credit) (Grades: 10, 11, 12)
- Private Pilot Knowledge Test Prep (1 credit) (Grades: 10, 11, 12)

#### Certifications Available for Completers in the Aviation Pathway:

- Employability Skills – CareerSafe
- BGI (Basic Ground Instructor)
- AGI (Advanced Ground Instructor)

## Business Pathway

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Students in the Business Pathway will learn about the ever-changing world of business. By learning what it means to plan, organize, direct, and evaluate a business, students will be prepared for a variety of post-secondary education and workplace opportunities. Careers include (but are not limited to):

- Accountant
- Actuary
- Finance
- Business Manager
- Corporate Banker
- Entrepreneur
- Financial Planner
- Food Marketer
- Loan Officer
- Social Media Marketer
- Sports Management
- Stockbroker

**Completer:** To be a completer in the Business Pathway, a student must select 5.5 credits within the pathway.

In addition to the regular graduation requirements, students must complete the courses as described below within their selected focus.

### **Certifications Available for Completers in the Business, Marketing, and Finance Pathway:**

- Employability Skills – CareerSafe

## Computer and Information Technology Pathway

Students in the Computer and Information Technology Pathway will explore courses that relate to the design, development, support and management of hardware, software, multimedia, and systems integration services. Careers may include (but are not limited to):

- Application Support Analyst
- Business Analyst
- Computer Systems Analyst
- Database Administrator (DBA)
- Educator
- Information Technology Specialist
- Network Administrator
- Network Engineer
- Program Manager
- Programmer Analyst
- Researcher
- Software Developer
- Software Engineer
- Software Test Engineer (STE)
- Systems Administrator
- Systems Analyst
- Systems Developer
- Systems Engineer (IT)
- Web Developer

**Completer:** To be a completer in the Computer and Information Technology Pathway, a student must select a focus within the pathway. There are two areas of focus in the Computer and Information Technology Pathway:

1. Information Support and Services
2. Interactive Media

In addition to the regular graduation requirements, students must complete the courses as described below within their selected focus.

**Information Support and Services Focus:** A student must take all the courses listed below to be a completer in the Information Support and Services Focused Pathway:

- A+ Certification – Computer Technician (1 credit) (Grades: 10, 11, 12)
- Accounting (1 credit) (Grades: 10, 11, 12)
- Computer Programming (1 credit) (Grades: 10, 11, 12)
- Entrepreneurship (0.5 credit) (Grades: 10, 11, 12)
- Intro to Computer and Information Technology (0.5 credit) (Grades: 10, 11, 12)
- Networking Essentials (1 credit) (Grades: 10, 11, 12)
- Probability and Statistics (1 credit) (Grades: 11, 12)
- Web Design and Development (0.5 credit) (Grades: 10, 11, 12)



**Interactive Media Focus:** A student must take all the courses listed below to be a **completer** in the Interactive Media Focused Pathway:

- Accounting or Marketing (1 credit) (Grades: 10, 11, 12)
- Computer Programming (1 credit) (Grades: 10, 11, 12)
- Graphic Design I (1 credit) (Grades: 10, 11, 12)
- Intro to Computer and Information Technology (0.5 credit) (Grades: 10, 11, 12)
- Probability and Statistics (1 credit) (Grades: 11, 12)
- Web Design and Development (0.5 credit) (Grades: 10, 11, 12)

**Certifications Available for Completers in the Computer and Information Technology Pathway:**

- Employability Skills – CareerSafe
- A+ CompTIA

## Culinary Arts CTE

Students in the Culinary Arts Pathway will learn the skills involved in food preparation and service. These skills will prepare students for careers in the culinary and hospitality field. Careers may include (but are not limited to):

- Baker
- Banquet Chef
- Beverage Specialist
- Butcher
- Cake Artist
- Caterer
- Cheese Maker
- Cold Food Chef (Garde Manger)
- Executive Chef
- Food Scientist
- Food Truck Chef/Owner
- Food Writer / Restaurant Critic
- Front of the House Manager
- Front of the House Server
- Hot Food Line Cook
- Institutional Food Worker (Hospitals, Colleges, Public/Private Secondary Schools, Prisons)
- Nutritionists
- Pastry Chef
- Quality Assurance Manager (high volume factories)
- Research and Development Chef
- Restaurant Manager
- Sous Chef
- Specialty Take-Out / Deli Owner

**Completer:** To fulfill completer requirements, students must complete the courses as described below within their pathway, in addition to the regular graduation requirements:

- Culinary Arts I (2 credits) (Grade: 10)
- Culinary Arts II (2 credits) (Grade: 11)
- Culinary Arts III (2 credits) (Grade: 12)
- English 11 CTE – Embedded Course (1 credit) (Grade: 11)
- CTE Consumer Math – Embedded Course (1 credit) (Grade: 12)

### **Certifications Available for Completers in the Culinary Arts Pathway:**

When students have satisfied completer requirements, the students will be eligible for taking the necessary exams for the following certifications:

- Food Safety Manager – National Registry of Food Safety Professionals
- Heartsaver CPR – American Heart Association
- Heartsaver First Aid – American Heart Association
- Nutrition 101 – Penn State Extension
- OSHA Certification – Culinary – CareerSafe
- Professional Cook Certification – Rouxbe Cooking School
- SerSafe / Manager / Food Safety certification – National Restaurant Association
- SerSafe Manager - ServSafe
- ServSafe Allergens Certification – ServSafe
- ServSafe Food Handler Certification – ServSafe

## Engineering Technology CTE

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Students in the Engineering Pathway will learn about science and technology concerned with the design, building, and use of engines, machines, and structures. This pathway will prepare students to apply knowledge and skills in the engineering field. Instruction includes, but is not limited to safety, ethics, power, problem solving, teamwork, computer aided design, engineering graphics, automated systems, coding, robotics, fundamental electronics, 3-D printing and manufacturing systems all while adhering to the STEM initiative. Careers may include (but are not limited to):

- Aerospace Engineering
- Agricultural Engineering
- Architectural Engineering
- Audio Engineering
- Biomedical Engineering
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Electrical Engineering
- Environmental Engineering
- Industrial Engineering
- Marine Engineering
- Mechanical Engineering
- Mining and Geological Engineering
- Nano engineering
- Nuclear Engineering
- Petroleum Engineering
- Software Engineering
- Structural Engineering
- Telecommunications Engineering
- Transport Engineering
- Vehicle Engineering

**Completer:** To fulfill completer requirements, students must complete the courses as described below within their pathway, in addition to the regular graduation requirements:

- Engineering Technology I (2 credits) (Grade: 10)
- Engineering Technology II (2 credits) (Grade: 11)
- Engineering Technology III (2 credits) (Grade: 12)
- Physics I CTE– Embedded Course (1 credit) (Grade: 11)
- Science Fiction & Technology in Literature CTE – Embedded Course (1 credit) (Grade: 12)

**Recommended Engineering Technology Pathway Courses Continued:**

- Robotics (1 credit) (Grades: 10, 11, 12)
- Pre-Calculus w/ Trigonometry (1 credit) (Grades: 11, 12)

**Certifications Available for Completers in the Engineering Technology Pathway:**

When students have satisfied completer requirements, the students will be eligible for taking the necessary exams for the following certifications:

- Autodesk Certified User – Autodesk
- Student Electronics Technician (SET) – Electronics Technicians Association, International
- Snap-On Multimeter Certification – National Coalition of Certification Centers
- Meter Certification – Snap-On

# Core Course Descriptions

## English Sequence

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### College & Career Ready Challenge

English 10 CCR  
English 11 CCR  
English 12 CCR

### Honors Challenge

English 10 H  
English 11 H

### Advanced Placement Challenge

AP English Language and  
Composition  
AP English Literature and  
Composition

### Other English Course Options

American Horror from Poe to King  
The Graphic Novel  
Literature of Leadership and Entrepreneurship  
Literature of Sport  
Science Fiction and Technology in Literature  
Survey of American Literature

### English Electives

Creative Writing

STUDENTS MUST SUCCESSFULLY COMPLETE ENGLISH 9, ENGLISH 10 AND TWO ADDITIONAL CORE COURSES AS A REQUIREMENT FOR GRADUATION.



## English Course Descriptions

### HS01814 English 10 College and Career Ready

1 credit

College & Career Ready Challenge

Grade: 10

**Prerequisites: English 9 CCR or English 9 H**

Description: This course aims to foster basic abilities in writing, reading, speaking, listening, and critical thinking skills. It will introduce students to persuasive and informational forms of writing, instructing them on the core elements of a synthesis paper and MLA format. The course will utilize journal and creative writing, formal essays, and in-class prompts to prepare students for the Keystone Literature exam. Emphasis on vocabulary will be maintained through practical vocabulary lists and vocabulary lists derived from selected readings. Grammar development will occur concurrently with reading and writing assignments. Students will engage with various selections, including fiction and nonfiction, through reading assignments in class and as homework. Additionally, students will enhance their listening skills by interacting with audio/visual materials, such as recordings and films.

### HS01004 English 10 Honors

1 credit

Honors Challenge

Grade: 10

**Prerequisites: English 9 CCR or English 9 H**

Description: This course aims intensively to develop advanced critical thinking skills in writing, reading, speaking, and listening in preparation for college. Students will engage in understanding and practicing persuasive and informational forms of writing, specifically designed for the writing styles used in various standardized tests. Students will participate in activities including journal writing, creative writing, formal essays, and in-class prompts. Furthermore, students will be introduced to the core elements of MLA-style research writing, such as the thesis statement, the works cited page, and parenthetical documentation. They will practice these elements by writing a synthesis essay. Vocabulary and grammar development will take place with reading and writing assignments. The course focuses on preparing students for the Keystone Literature exam, involving reading a variety of fiction and nonfiction selections. Additionally, students will practice listening skills by interacting with audio/visual materials, including recordings and films.

## **HS01815 English 11 College and Career Ready**

1 credit

College & Career Ready Challenge

Grade: 11

**Prerequisites: English 10 CCR or English 10 H**

Description: This quickly paced, college and career readiness course is literature based, drawing from both British and World literary texts. College and Career Readiness 11 builds upon the previous foundation by increasing the degree of analysis and interpretation so that students may learn to consider the content's connection to themes, history, and previously learned material. Students must complete outside reading and writing assignments. Students also are expected to be able to learn multiple tasks simultaneously and to refine their work repeatedly. To prepare the students for college, students will learn the following: literature appreciation and analysis; practical, analytical, and critical composition; high school research skills; vocabulary; interpersonal communication; and standardized test-taking skills for reading and writing content. English 11 College and Career Ready students will refine or develop research-based persuasive papers, which must adhere to the MLA-format, and fulfill specific length and resource standards. Prerequisite reading required.

## **HS01006 English 11 Honors**

1 credit

Honors Challenge

Grade: 11

**Prerequisites: English 10 CCR or English 10 H**

Description: This accelerated, in-depth course emphasizes independent and outside study, and it draws from both British and world literature texts. English Honors courses prepare students for the Advanced Placement curriculum. Students are expected to practice and refine a variety of analytical and interpretive reading and writing skills. English Honors 11 includes the following: high school research skills; college level vocabulary; interpersonal communication; standardized test-taking skills developed for reading and writing content. English 11 Honors students will refine or develop research-based persuasive papers, which must adhere to the MLA-format and fulfill specific length and resource standards.

## **HS01801 English 11 CTE Auto & Building**

1 credit

College & Career Ready Challenge

Grade: 11

### **Prerequisites: English 10 CCR or English 10 H**

Description: This quickly paced, college and career readiness course is standards based, drawing from both traditional literary texts (Contemporary American and British literature) and industry specific professional publications and journals. CTE College and Career Readiness 11 builds upon the previous foundation by increasing the degree of analysis and interpretation so that students may learn to consider the content's connection to themes, history, and previously learned material. Students must complete outside reading and writing assignments. Students also are expected to be able to learn multiple tasks simultaneously and to refine their work repeatedly. To prepare the students for college, employment, trade, or technical school, students will learn the following: literature appreciation and analysis; practical, analytical, and critical composition; high school research skills; vocabulary; interpersonal communication; and standardized test-taking skills for reading and writing content. Within the embedded CTE course, students will work on differentiated assignments specific to their career and technical pathway which may include but are not limited to: summary and analysis of trade articles and journals, explicit instruction in trade specific vocabulary to be utilized in written inspection reports, customer/client communications, advertising and all other forms of interpersonal and business communications. To prepare for English 11 CTE College and Career Ready, students will refine or develop research-based persuasive papers, which adhere to the MLA-format, and fulfill specific length and resource standards, generally focused on research trends within the student's identified CTE program.

## **HS01803 English 11 CTE Child Care**

1 credit

College & Career Ready Challenge

Grade: 11

### **Prerequisites: English 10 CCR or English 10 H**

Description: This quickly paced, college and career readiness course is standards based, drawing from both traditional literary texts (Contemporary American and British literature) and industry specific professional publications and journals. CTE College and Career Readiness 11 builds upon the previous foundation by increasing the degree of analysis and interpretation, so students may learn to consider content's connection to themes, history, and previously learned material. Students must complete outside reading and writing assignments related to their area of study (e.g. Child Care or Culinary Arts). Students are also expected to apply multiple skills simultaneously and to refine their work repeatedly. Additionally, English 11 CTE College and Career Ready students develop research-based persuasive assignments, which must adhere to MLA-format and fulfill specific length and resource standards. These assignments are generally focused on research trends and student interest within the student's identified CTE program. Additionally, to prepare students for college, employment, trade, or technical school, throughout the course, students complete the following: literature appreciation and analysis; practical, analytical, and critical composition; research; CTE appropriate vocabulary development; interpersonal communication; and standardized test-taking skills for reading and writing content. Students work on differentiated assignments specific to their career and technical pathway which may include but is not limited to: summary and analysis of trade articles and journals, explicit instruction in trade specific vocabulary to be utilized in written inspection reports, customer/client communications, advertising and all other forms of interpersonal and business communications.

## HS01816 English 12 College and Career Ready

1 credit

College & Career Ready Challenge

Grade: 12

**Prerequisites: English 11 CCR or English 11 H**

Description: This quickly paced, college & career ready course is literature based, focusing on world literature's development. College and career ready 12 is designed to be a culminating study of world literary thought, analysis and interpretation. Students are expected to consider the content's connection to universal themes, world history or previously learned material. Students must complete outside reading and writing assignments and students are expected to be able to learn multiple tasks simultaneously and to refine their work repeatedly. To prepare for college, students will learn the following: literature appreciation and analysis; practical, analytical, and critical composition; high school research skills; vocabulary; interpersonal communication and standardized test-taking skills for reading and writing content.

## HS01033 AP English Language and Composition

1 credit

Advanced Placement Challenge

Grades: 11, 12

**Prerequisites: English 10 CCR or English 10 H**

Description: Advanced Placement English Language and Composition is an intensive course with emphasis placed on preparation for the Advanced Placement English Literature and Composition Exam. Students in this course read and carefully analyze a broad and challenging collection of writings to enhance their awareness of how writers use language, style, and rhetoric to create meaning. Through close readings and frequent writing, students will develop their ability to analyze texts. Formal writing will be process-driven and will include pre-writing, writing and revision. Readings will be mostly non-fiction, but they will also include some works of fiction. Students must prepare seriously since they will be required to take the AP exam. The cost of the exam will be covered by the school district. [This course may be eligible for Dual Enrollment credit.](#)

## HS01031 AP Literature and Composition

1 credit

Advanced Placement Challenge

Grade: 12

**Prerequisites: English 11 CCR or English 11 H**

Description: Advanced Placement Literature and Composition is an intense course with emphasis placed on preparation for the Advanced Placement English Literature and Composition Examination for possible college credit, and an emphasis on composition as a means for analysis of and reaction to the literary genres. It is recommended for college-bound students who have demonstrated advanced skills in English, reading and writing. The works covered are considered classical in nature and summer reading is required. Students must prepare seriously since they will be required to take the Advanced Placement exam. The cost of the exam will be covered by the school district. [This course may be eligible for Dual Enrollment credit.](#)

## HS01023 American Horror from Poe to King

1 credit

College & Career Ready Challenge

Grades: 11, 12

**Prerequisites: English 10 CCR or English 10 H**

Description: This class will explore the Horror Genre in America. Students will take a close look at the development of the horror story from its origins from Edgar Allen Poe to Stephen King. There will be an emphasis on the use of literary devices in the interpretation of literature, and on writing original stories. Some of the literature included will be: *Collected Short Stories of Edgar Allen Poe*, *Nightshift*, by Stephen King, *Collected Short Stories of Shirley Jackson*, *The Girl Who Loved Tom Gordon*, Stephen King, *The Shining*, by Stephen King, *NOS4A2*, by Joe Hill, and *The Watchers*, by Dean R Koontz.

## HS01027 Creative Writing

0.5 elective credit

College & Career Ready Challenge

Grades: 10, 11, 12

**Prerequisites: English 9 CCR or English 9 H**

Description: This course is designed for students who desire to write creatively and wish to spend much time writing. Forms may include short stories, poetry, and drama. Students will be encouraged to create or re-create experiences and perceptions unique to their personalities. Opportunity will be given for students to share their writings with a responsive audience. The course will culminate in submission of a piece for possible publication or a project that demonstrates both creativity and learned skills.

## HS01024 Literature of Leadership and Entrepreneurship

1 credit

College & Career Ready Challenge

Grades: 11, 12

**Prerequisites: English 10 CCR or English 10 H**

Description: This college & career ready course is extensively literature based, and it will give the student a broad base regarding leaders and the techniques which contribute to their successes. It will examine the literature of leaders via autobiographies, biographies, and various non-fiction works. Students will read and analyze literary works such as: *Ethics 101*, *Greater than Yourself*, *Make Your Bed* and *The Third Door*, as well as articles from scholarly magazines and other credible sources. Students will also examine local works and be exposed to regional leaders who have made a profound impact on their communities.

## HS01022 Literature of Sport

1 credit

College & Career Ready Challenge

Grades: 11, 12

**Prerequisites: English 10 CCR or English 10 H**

Description: This course surveys a variety of writing about sports including novels, short stories, and non-fiction sports writing. Students will be exposed to sports-related novels, newspaper stories, magazine articles, sports blogs, and electronic media stories. Emphasis will be placed on American sport. Sports writing, i.e. journalism, including news and editorials will be discussed. There will be a focus not only on the history of literature in sport but also on the current works of sports-related literature. This is a college and career ready course for juniors and seniors.

## HS01021 Science Fiction and Technology in Literature

1 credit

College & Career Ready Challenge

Grades: 11, 12

**Prerequisites: English 10 CCR or English 10 H**

Description: This course is a survey of the greatest works of science fiction from around the world. Students will explore short stories, novellas, novels, television, and movie forms of the genre in order to track popular sci-fi trends as they pertain to the current technology of the day. Students will also delve into current scientific trends by reading scholarly journals, newspaper, and magazine articles to predict where sci-fi is heading in the future.

## HS01802 Science Fiction and Technology in Literature CTE

1 credit

College & Career Ready Challenge

Grades: 11, 12

**Prerequisites: English 10 CCR or English 10 H**

Description: This course explores the growth and popularity of the Science Fiction genre through various topics and texts. Students will read classic Sci-Fi novels and stories (Bradbury, Vonnegut Jr., Crichton) and explore the works of contemporary Sci-Fi authors (Jemisin, Weir). There will be an emphasis on the use of literary devices to analyze and interpret literature, and on both critical and creative writing. During this course, students will define, identify, and discuss Science Fiction and its cultural impact, and gain a deeper understanding of the genre. They will engage critically with texts while participating in thoughtful discussions with peers. Throughout the semester, students work toward writing and refining their own Sci-Fi short story. Additionally, they complete research-based written assessments which will adhere to MLA format and fulfill curriculum standards in technical reading and writing. These assignments are focused on trends in research, science, technology, and medical advancements as well as students' interests within their identified CTE program.

## HS01818 Survey of American Literature

1 credit

College & Career Ready Challenge

Grades: 10, 11, 12

**Prerequisites: English 10 CCR or English 10 H**

Description: This accelerated, in-depth course emphasizes independent and outside study. This course will prepare students for the Advanced Placement curriculum. Students are expected to practice and refine a variety of analytical and interpretive reading and writing skills. Survey of American Literature Dual Enrollment includes the following: collegiate research skills; college level vocabulary; interpersonal communication; standardized test-taking skills developed for reading and writing content. Survey of American Literature Dual Enrollment students will refine or develop research-based persuasive papers, which must adhere to the MLA-format and fulfill specific length and resource standards. In this survey, students will read and analyze classic American Literature including poetry, drama and fiction from the late seventeenth century until approximately 1900. Students will read classic authors including *William Bradford, Benjamin Franklin, James Fenimore Cooper, Ralph Waldo Emerson, Nathaniel Hawthorne, Herman Melville, Mark Twain, Walt Whitman, Emily Dickinson, Washington Irving*, and others. Finally, students will develop an appreciation for and an understanding of American history via its literature. **This course may be eligible for Dual Enrollment credit.**

## HS01813 The Graphic Novel

1 credit

College & Career Ready Challenge

Grades: 11, 12

**Prerequisites: English 10 CCR or English 10 H**

Description: The Graphic Novel course will explore the comics medium as a mode of communicating stories using the various texts to acquire, practice and master traditional and new literacies, including visual and critical media literacy. Through genre study, students will consider graphic novels as literature, analyze formal structure as it relates to content, trace the development of such themes as gender, race, sexuality, justice, history, or heroism, and learn the history and growth of the popular culture phenomenon called comics. The essential questions for this course: What is human nature? How do we recognize human nature?

# Mathematics Sequence

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## College & Career Ready Challenge

Geometry CCR  
Algebra II CCR  
Pre-Calculus w/ Trigonometry CCR  
Probability & Statistics CCR  
Consumer Math

## Honors Challenge

Geometry H  
Algebra II H  
Pre-Calculus w/ Trigonometry H  
Probability & Statistics H  
Intro to Calculus  
Calculus II

## Advanced Placement Challenge

AP Calculus AB  
AP Computer Science A  
AP Computer Science  
Principles

## Math Electives

Problem Solving in Mathematics IS/IIS

STUDENTS MUST SUCCESSFULLY COMPLETE ALGEBRA I, GEOMETRY, ALGEBRA II AND ONE ADDITIONAL CORE COURSE AS A REQUIREMENT FOR GRADUATION.

## Mathematics Course Descriptions

### HS02809 Geometry College and Career Ready

1 credit

College & Career Ready Challenge

Grades: 10

**Prerequisites: Algebra I or Algebra IB**

Description: Geometry is a course recommended for the college-bound student. It places emphasis on the need for clarity and precision of language, and geometric visualization. A unit on formulas for planes and solid figures is included.

### HS02004 Geometry Honors

1 credit

Honors Challenge

Grades: 10

**Prerequisites: Algebra I or Algebra I B. Geometry students are recommended by the Middle School faculty.**

Description: Geometry Honors places emphasis on proof, the need for clarity and precision of language, and geometric visualization. A unit on formulas for planes and solid figures is included. Geometry honors is designed to be more rigorous with the intent of developing critical thinking skills by utilizing more abstract concepts. Higher level thinking processes will be reflected on various forms of assessment.

### HS02005 Algebra II College and Career Ready

1 credit

College & Career Ready Challenge

Grades: 10, 11, 12

**Prerequisites: Geometry CCR or Geometry H**

Description: Algebra II includes development and application of real number properties, the study of linear open sentences, an introduction to functions, factoring polynomials, the use of rational, irrational, and complex numbers, the study of quadratic equations, and other higher-level topics.

### HS02006 Algebra II Honors

1 credit

Honors Challenge

Grades: 10, 11

**Prerequisites: Geometry CCR or Geometry H**

Description: Algebra II Honors includes development and applications of real number properties, the study of linear open sentences, an introduction to functions, factoring polynomials, the use of rational, irrational, and complex numbers, the study of quadratic equations, and other higher-level topics. Algebra II Honors is designed to be more rigorous with the intent of developing critical thinking skills by utilizing more abstract concepts. Higher level thinking processes will be reflected on various forms of assessment.

## HS02007 Consumer Math College and Career Ready

1 credit

College & Career Ready Challenge

Grade: 12

**Prerequisites: Successful completion of 3 high school math courses**

Description: Consumer Math includes problems from everyday living experiences. ***This course also fulfills the requirements of Senior Seminar. Please see page 73 for the course description.*** The course presents essential knowledge and skills to make informed decisions about real world financial issues from the viewpoint of a consumer. Students will learn how choices influence occupational options and future earning potential. Students will also learn to apply decision-making skills to evaluate career choices and set personal goals. The course content is designed to help the learner make wise spending, saving, and credit decisions and to make effective use of income to achieve personal financial success. Students taking Consumer Math will demonstrate an understanding of the career decision making process, money management, (including budgeting, banking, saving, and investing) risk management (including property and automobile insurance) and credit management.

**PDE Industry Credentials:**

- Critical Thinking – CareerSafe

## HS02801 / HS02802 Consumer Math College and Career Ready CTE

1 credit

College & Career Ready Challenge

Grade: 12

**Prerequisites: Successful completion of 3 high school math courses**

Description: The course presents essential knowledge and skills to make informed decisions about real world financial issues from the viewpoint of a business owner/entrepreneur. Students will learn how choices influence occupational options and future earning potential. Students will also learn to apply decision-making skills to evaluate financial and resource management for a business through the Lense of HS02801 Auto & Building and HS02801 Child Care/Culinary. The course content is designed to help the learner make wise spending, saving, and credit decisions and to make effective use of income to achieve business financial success. Students taking Consumer Math will demonstrate an understanding of business topics including calculating costs associated with personnel, manufacturing, purchasing, sales, marketing, and warehousing.

## HS02810 Pre-Calculus with Trigonometry College and Career Ready

1 credit

College & Career Ready Challenge

Grades: 11, 12

**Prerequisites: Algebra II CCR or Algebra II Honors**

Description: Pre-Calculus with Trigonometry CCR includes a right triangular and a circular approach, curve sketching, identities, solving triangles and logarithms. **[This course may be eligible for Dual Enrollment credit.](#)**

## HS02811 Pre-Calculus with Trigonometry Honors

1 credit

Honors Challenge

Grades: 11, 12

### **Prerequisites: Algebra II CCR or Algebra II Honors**

Description: Pre-Calculus with Trigonometry Honors includes a right triangular and a circular approach, curve sketching, identities, solving triangles, logarithms, and polar coordinates. Pre-Calculus Honors includes more difficult and in-depth problem sets expanding on topics listed in Pre-Calculus with Trigonometry CCR. It is designed to be more rigorous with the intent of developing critical thinking skills by utilizing more abstract concepts. Higher level thinking processes will be reflected on various forms of assessment. Use of calculators is limited for a stronger demonstration of student number sense in preparation of future standardized exams. [This course may be eligible for Dual Enrollment credit.](#)

## HS02010 Probability and Statistics College and Career Ready

1 credit

College & Career Ready Challenge

Grades: 11, 12

### **Prerequisites: Algebra II CCR or Algebra II Honors**

Description: Probability and Statistics includes units from statistics and probability. This course will include confidence intervals, hypothesis testing and normal distributions. It is recommended as a fourth-year mathematics course for academic students who choose not to study Trigonometry or Calculus. Students may receive credit for Trigonometry, Introductory Calculus or AP Calculus as well as for Probability and Statistics. [This course may be eligible for Dual Enrollment credit.](#)

## HS02011 Probability and Statistics Honors

1 credit

Honors Challenge

Grades: 11, 12

### **Prerequisites: Algebra II CCR or Algebra II Honors**

Description: Probability and Statistics includes units from statistics and probability. It includes more difficult and in-depth problem sets from topics listed in Probability and Statistics. This honors course is designed to be more rigorous with the intent of developing critical thinking skills by utilizing more abstract concepts. Higher level thinking processes will be reflected on various forms of assessment. NOTE: A student may receive a math credit for only one of the following two courses: Probability and Statistics CCR or Probability and Statistics Honors. [This course may be eligible for Dual Enrollment credit.](#)

## HS02012 Intro to Calculus

1 credit

Honors Challenge

Grade: 12

### **Prerequisites: Pre-Calculus with Trigonometry CCR or Pre-Calculus with Trigonometry Honors**

Description: Introductory Calculus introduces the student to fundamentals of differential calculus.

NOTE: A student may not receive a math credit for both Introductory Calculus and AP Calculus.

## HS02301 AP Calculus

1.5 credits

Advanced Placement Challenge

Grade: 12

**Prerequisites: Pre-Calculus with Trigonometry CCR or Pre-Calculus with Trigonometry Honors**

Description: Advanced Placement Calculus is a rigorous course, which parallels a college level calculus course. The student who enrolls is expected to prepare seriously to take an Advanced Placement examination in Calculus. Students will be required to take the Advanced Placement exam. The cost of the exam will be covered by the school district. A student may not receive a math credit for both Introductory Calculus and AP Calculus.

## HS02015 Calculus II

1 credit

Honors Challenge

Grade: 12

**Prerequisites: Passing grade in AP Calculus, and Math Dept. approval.**

Description: It is a rigorous college level course and requires a sound AP Calculus background. The student may take Advanced Placement Calculus BC Exam. If the course is offered for dual enrollment, the student may register and apply to college with the intent of earning college credit.

## HS02812 AP Computer Science A

1 credit

Advanced Placement Challenge

Grades: 11, 12

**Prerequisites: Completion of Algebra I and at least one of the following: Computer Programming or Robotics.**

Description: This course is an introductory college-level computer science course. Students will cultivate their understanding of coding through analyzing, writing, and testing code as they explore concepts like modularity, variables, control structures, iteration, classes, arrays, and inheritance. Students will be using Java as the designated programming language. Students will be required to take the Advanced Placement exam in Computer Science A. The cost of the exam will be covered by the school district.

## HS02813 AP Computer Science Principles

1 credit

Advanced Placement Challenge

Grades: 11, 12

**Prerequisites: Completion of Algebra I and at least one of the following: Computer Programming or Robotics.**

Description: This course introduces students to the breadth of computer science. In this course, students will learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. Students will incorporate abstraction into programs and use data to discover new knowledge. Students will also explore how computing innovations and systems work, impact, and contribute to a computing culture that is collaborative and ethical. Students will be required to take the Advanced Placement exam in Computer Science Principles. The cost of the exam will be covered by the school district.

**HS02017 / HS02018 Problem Solving Mathematics IS/IIS**

1credit (1 Math, 1 Science)

Elective credit

Grades: 11, 12

Description: Problem Solving in Math is a semester-long course where students approach higher level math concepts, especially algebraic concepts, using exploration, data collection and analysis, modeling, collaboration, and other tactics, to identify specific problems and various approaches to solving them. This course is student centered and student directed, with students selecting areas of exploration supported by teacher guidance and coaching. Since this course does not use an established sequential curriculum, students can move fluidly through a trajectory of problem-solving approaches, from concrete through representational to abstract modeling, as they build a robust toolkit to approach new and unknown problems in the math classroom as well as in life outside of school. This course does not fall within the established math course sequence and there are no pre-requisites, but it is targeted towards Sophomore, Juniors or Seniors.

## Science Sequence

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### College & Career Ready

#### Challenge

Biology CCR

Chemistry I

Chemistry I CTE

Earth Space Science

Food Chemistry

Physics I

Physics 1 CTE

Anatomy and Physiology

Anatomy and Physiology CTE

Biomechanics in Movement and  
Sports

Issues in Environmental Science

I/II

### Honors Challenge

Biology Honors Chemistry II

Physics II

### Advanced Placement

#### Challenge

AP Chemistry AP Biology

AP Physics C: Mechanics

### Science Electives

Diversity of Life

Problem Solving in Science IS/IIS

STUDENTS MUST SUCCESSFULLY COMPLETE SCIENCE 9, BIOLOGY AND ONE ADDITIONAL 1 CREDIT CORE COURSE AS A REQUIREMENT FOR GRADUATION.

## Science Course Descriptions

### HS03003 Biology College and Career Ready

1 credit

College & Career Ready Challenge

Grades: 10, 11

**Prerequisites: Science 9 CCR or Science 9 H**

Description: The topics taught in Biology are the scientific process, genetics, and cell biology. This is a hand-on biology course that is task oriented and will appeal to a wide variety of learning styles. This is a PA Keystone course. Students will take the Biology Keystone exam at the conclusion of the course.

### HS03004 Biology Honors

1 credit

Honors Challenge

Grades: 10, 11

**Prerequisites: Science 9 CCR or Science H**

Description: This course is taught with emphasis on biological concepts. An inquiry-based, hands-on approach is used when appropriate. Topics include the scientific process, genetics, cell biology, and anatomy and physiology. This course is intended for students who are planning to attend a four-year college. This is a PA Keystone course. Students will take the Biology Keystone exam at the conclusion of the course.

### HS03301 / HS03304 AP Biology

1.5 credits

Advanced Placement Challenge

Grades: 11, 12

**Prerequisites: Chemistry I or concurrently taking Chemistry I**

Description: Advanced Placement Biology is taught at the college level and is designed for highly motivated students. This course will cover four “big ideas”. 1. Evolution: The process drives the diversity and unity of life. 2. Energetics: Biological systems use energy and molecular building blocks to grow, reproduce, and maintain dynamic homeostasis. 3. Information Storage and Transmission: Living organisms store, retrieve, transmit, and respond to information essential to life processes. 4. System Interactions: Biological systems interact, and these systems and their interactions exhibits complex properties. Laboratory work is a key component of the course. Students will be required to take the Advanced Placement exam. The cost of the exam will be covered by the school district.

## HS03801 Chemistry CTE

1 credit

College & Career Ready Challenge

Grades: 10, 11, 12

**Prerequisites: Science 9 CCR, Science 9 H, Biology and Algebra I**

Description: The focus of CTE Chemistry is the study of matter, its composition, structure, properties, and changes, with appropriate laboratory experiences. Atomic theory, periodic law, chemical bonding, chemical equations, and reactions, and acid/base theory are the components of this course. These concepts are connected to the chemical applications found in the individualized CTE programs where applicable. **This course may be eligible for Dual Enrollment credit.**

## HS03810 Chemistry I

1 credit

College & Career Ready Challenge

Grades: 10, 11, 12

**Prerequisites: Science 9 CCR, Science 9 H, Biology and Algebra I**

Description: The focus of Chemistry I is the study of matter, its composition, structure, properties, and changes, with appropriate laboratory experiences. Atomic theory, periodic law, chemical bonding, chemical equations, and reactions, and acid/base theory are the components of this course. **This course may be eligible for Dual Enrollment credit.**

## HS03009 Chemistry II

1 credit

Honors Challenge

Grades: 10, 11, 12

**Prerequisite: Chemistry I**

Description: Chemistry II continues the study of chemistry with laboratory experiences. The course begins with a brief review of the topics covered in Chemistry I and includes more detailed study in the areas of stoichiometry, gases and gas laws, liquids and solids, solution chemistry, thermodynamics, nuclear chemistry, and organic chemistry. The course stresses the use of technology in lab work, and emphasizes the skills and knowledge needed for first-level college chemistry. **This course may be eligible for Dual Enrollment credit, only if not gained through Chemistry I.**

### **HS03303 / HS03306 AP Chemistry**

1.5 credits

Advanced Placement Challenge

Grades: 11, 12

**Prerequisite: Chemistry I and Chemistry II**

Description: This course will place emphasis on the states of matter, chemical reactions, descriptive chemistry, chemical calculations, and laboratory work. This course is a rigorous course taught at the college level and is designed for the highly motivated student. AP Chemistry covers the topics required for the Advanced Placement Chemistry exam and parallels a first-level course of college inorganic chemistry semester I and II. Students will be required to spend additional time learning material not learned in class and are expected to prepare seriously to take the Advanced Placement Chemistry Examination. Students will be required to take the Advanced Placement exam. The cost of the exam will be covered by the school district.

### **HS03802 Physics CTE**

1 credit

College & Career Ready Challenge

Grades: 10, 11, 12

**Prerequisites: Geometry, completion or concurrent enrollment in Algebra II**

Description: CTE Physics is an introduction to basic classical physics with laboratory experience. The concepts of linear and non-linear motion, forces, work and energy, momentum, and rotational motion are presented including their application to the individualized CTE programs with an emphasis on the engineering components of physics where applicable.

### **HS03006 Physics I**

1 credit

College & Career Ready Challenge

Grades: 10, 11, 12

**Prerequisites: Geometry, completion or concurrent enrollment in Algebra II**

Description: Physics I is an introduction to basic classical physics with laboratory experiences. The concepts of linear and non-linear motion, forces, work and energy, momentum, and rotational motion are presented.

### **HS03007 Physics II**

1 credit

Honors Challenge

Grades: 11, 12

**Prerequisites: Physics I or Physics CTE**

Description: Physics II continues the study of physics with laboratory experiences. Physics II is a survey of fluid mechanics, thermodynamics, waves, sound, light, optics, electricity, magnetism, and modern atomic and subatomic physics.

## HS03302 AP Physics C: Mechanics

1 credit

Advanced Placement Challenge

Grades: 11, 12

**Prerequisites: Completion of Physics I or Physics CTE, completion of, or concurrently taking AP Calculus. Physics II is not required to take this course.**

Description: Advanced Placement Physics is a calculus-based physics course that covers the required topics for the AP Physics C Mechanics exam. Physics II is not a prerequisite for this course. The curriculum parallels a first-level college calculus-based physics course. Topics mirror those in Physics I, with more emphasis on rotational dynamics and laboratory work. AP Physics is a rigorous course designed for the highly motivated science student. Students will be expected to prepare seriously for the required Advanced Placement exam. The cost of the exam will be covered by the school district.

## HS03805 Anatomy and Physiology

1 credit

College & Career Ready Challenge

Grades: 10, 11, 12

**Prerequisites: Biology**

Description: Anatomy and Physiology is an advanced biology course designed for students with a special interest in the structure and function of the human body. Disorders, maintenance, repair, and aging of body systems will be stressed. The integumentary, skeletal, muscular, nervous, special senses, endocrine, circulatory, immune, respiratory, digestive, urinary, and reproductive systems will be covered in this class. You will be required to learn details of human anatomy, as well as conceptualize processes of human physiology. Dissections are components of the class.

## HS03803 Anatomy and Physiology CTE

1 credit

College & Career Ready Challenge

Grades: 10, 11, 12

**Prerequisite: Biology**

Description: CTE Anatomy and Physiology is designed for students with a special interest in the structure and function of the human body as it relates to the application of such concepts to child development, industrial safety, ergonomics, exercise science and basic health care. Disorders, maintenance, repair, and aging of body systems will be discussed as well. The integumentary, skeletal, muscular, nervous, special senses, endocrine, circulatory, immune, respiratory, digestive, urinary, and reproductive systems will be covered in this class. You will be required to learn details of human anatomy, as well as conceptualize processes of human physiology. Dissections are components of the class.

## HS03016 Biomechanics in Movement and Sports

1 credit

College & Career Ready Challenge

Grades:10, 11, 12

### **Prerequisites: Biology and Geometry**

Biomechanics is the study of the physical and mathematical science behind human motion. Whether you are interested in dance, sport performance, exercise and sports medicine, or anything in between, this course will help you understand the science behind the various forces, motions, rotations, and anatomy of those movements. This course is highly recommended for any student in the Exercise Science and Sports Medicine CTE Program.

## HS03011 Diversity of Life

1 credit

College & Career Ready Challenge

Grades: 11, 12

### **Prerequisites: Science 9 and Biology**

Description: This course will provide you with an enjoyable and informative hands-on overview of the biological kingdoms, including microorganisms, plants, and animals. Students will learn about life's diversity, form, function, and importance. Projects are an integral part of this course. Please Note: Students with allergies to animals and animal dander may be affected by the environment in this classroom and should consider this factor before signing up for this class. Students with nut and seed allergies need to be aware that they are in animal food.

## HS03010 Earth Space Science

1 credit

College & Career Ready Challenge

Grades: 10, 11, 12

### **Prerequisites: Science 9 and Biology**

Description: This course consists of advanced study in various disciplines of the Earth and Space Sciences including meteorology, astronomy, oceanography, and geology.

## HS16007 Food Chemistry

1 credit

College & Career Ready Challenge

Grades: 10, 11, 12

Description: This course will introduce students to chemistry through the contexts of food and other aspects of the culinary arts. Course topics may include study of the following: measurements and calculations, chemicals in the kitchen, chemical reactions associated with food processing and storage, food guides and macromolecules, digestion, and additives such as color, flavor, preservatives, and stabilizers.

### **HS03012 Issues in Environmental Science I**

1 credit

College & Career Ready Challenge

Grades: 11, 12

Description: This course is designed for students attracted to careers in conservation and to develop a connection to the environment and an accompanying desire to protect and preserve it. The focus is on understanding how ecosystems function and the natural history of organisms. This course will explore resource protection by introducing students to complex, ongoing local resource management issues that involve many diverse stakeholders. Students will explore the background of the issues, the natural resources involved, the consequences, the possible solutions and the stakeholders' special interests using computer technology, field work and interviews. Students will work in groups, go outside, and present during this course.

### **HS03015 Issues in Environmental Science II**

1 credit

College & Career Ready Challenge

**Prerequisite: Issues in Environmental Science I**

**Grades: 11, 12**

Description: This course is a continuation of Issues in Environmental Science I designed for students attracted to careers in conservation and to develop a connection to the environment and an accompanying desire to protect and preserve it. The focus is on understanding how ecosystems function, the natural history of organisms, and the governmental agencies responsibility. This course will explore resource protection by continuing students understanding of complex, ongoing local resource management issues that involve many diverse stakeholders. Students will explore the background of the issues, the natural resources involved, the consequences, the possible solutions and the stakeholders' special interests using computer technology, field work and interviews.

### **HS03017 / HS03018 Problem Solving in Science IS/IIS**

1 credit (1 Math, 1 Science)

Elective Credit

Grades: 11, 12

Description: Problem Solving in Math and Science is a semester-long course where students apply high school level math concepts to scientific inquiry to explore, create, and build skills necessary for post-secondary success. The course allows students to explore the topic of data science, where they will learn from, ask questions of, and represent data. The class is purposefully designed to provide students with an authentic and student-centered experience in the science and math classroom, using project-based inquiry and guided discovery instruction. This class employs a small student-teacher ratio to match the learning styles of students who thrive in a hands-on, kinetic learning environment. Students are expected to contribute heavily to the direction of student learning and collaborate in small and large group situations, as well as work independently. In addition to math and science skills, students will further develop critical reading skills, written and verbal communication, and formal writing.

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## **Social Studies Sequence**

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**College & Career Ready  
Challenge**

US History III CCR  
World Cultures CCR

**Honors  
Challenge**

US History III Honors  
World Cultures Honors

**Advanced Placement  
Challenge**

AP US History

**Social Studies Electives**

Intro to Psychology  
Logic  
American Pop Culture  
Global Human Rights  
Modern American Government

STUDENTS MUST TAKE U.S.II, U.S.III, WORLD CULTURES AND ONE ADDITIONAL CORE COURSE AS A REQUIREMENT FOR GRADUATION.

## Social Studies Course Descriptions

### HS04807 US History III College and Career Ready

1 credit

College & Career Ready Challenge

Grade: 10

Description: The United States History III course begins in 1929 and progresses through modern day, as the United States emerges as a world power. This course will focus on the role of American government in domestic and international conflict and diplomacy. Specifically, students will study the Great Depression, WWII, the Cold War, the Civil Rights movement, post-WWII conflicts, when America grew into a global superpower, and finally contemporary U.S. History. U.S. History III CCR prepares the student for college level history courses and requires substantial outside reading and document analysis thereby developing higher order thinking skills.

### HS04104 US History III Honors

1 credit

Honors Challenge

Grade: 10

**Prerequisite: U.S. History II CCR or Honors**

Description: The United States History III course begins in 1914 and progresses through modern day, as the United States emerges as a world power. This course will focus on the role of American government in domestic and international conflict and diplomacy. Specifically, students will study the Great Depression, WWII, the Cold War, the Civil Rights movement, post-WWII conflicts, when America grew into a global superpower, and finally contemporary U.S. history. U.S. History III Honors requires substantial outside reading, extensive research for assigned papers and considerable document analysis thereby developing critical thinking skills.

### HS04808 World Cultures College and Career Ready

1 credit

College & Career Ready

Grades: 11, 12

Description: World Cultures CCR is a composite study of four cultures around the globe. Each culture includes geography, customs, social systems, religion, government, art, music, and literature of the region. Thinking skills including interpretation, analysis and evaluation are used in class to gain an understanding of other cultures as they relate to our own. By keeping tuned to current events in the area, we can gain insight into the ideas and attitudes which affect us. The Middle East, South Asia, East Asia, and Africa are areas of concentration in this course. World Cultures CCR will prepare students for college level social studies courses. This course requires outside reading and document analysis thereby developing critical thinking skills.

## HS04106 World Cultures Honors

1 credit

Honors Challenge

Grade: 11, 12

**Prerequisite: U.S. History III Honors is highly recommended.**

Description: World Cultures Honors is a composite study of four cultures around the globe. Each culture includes geography, customs, social systems, religion, government, art, music, and literature of the region. Thinking skills including interpretation, analysis and evaluation are used in class to gain an understanding of other cultures as they relate to our own. By keeping tuned to current events in the area, we can gain insight into the ideas and attitudes which affect us. The Middle East, South Asia, East Asia and Africa are areas of concentration for this course. The honors challenge is only for self-motivated students with great intellectual curiosity. This course requires substantial outside reading and considerable document analysis, thereby developing critical thinking skills.

## HS04301 / HS04302 AP US History

1.5 credits

Advanced Placement Challenge

Grade: 11, 12

**Prerequisites: Completion of US History III Honors.**

Description: This course is inclusive of U.S. History I, II and III. Students will be required to spend additional time learning materials not covered in class. Students are expected to write numerous papers ranging from 1-5 pages which will critically analyze historical events and documents. Students will learn and employ historical techniques to prepare many lessons covering a wide range of historical topics. Students interested in AP History are expected to have a strong knowledge base of the material covered in US I, II and III. The objective of AP History is to prepare students for the AP History test which is administered in May. All students are required to take the College Board Advanced Placement exam. (The cost of the exam will be covered by the school district.) To that end, the course and assignments in the class will be scored using College Board rubrics. AP History is designed only for the highly motivated student who wants to study the craft of history and is willing to do historical work beyond memorizing dates and events. **This course may be eligible for Dual Enrollment credit.**

## HS04107 Intro to Psychology

1 credit

College & Career Ready Challenge

Grade: 11, 12

Description: This course is an overview of major psychological theories, approaches, and methods. The topics include development, gender and sexuality, learning, thinking, motivation, stress, personality, and personality disorders. Students will be presented with the material with the intent of better understanding themselves and the society in which we live. The instruction is research and project based with many examples of each topic introduced with a “hands-on” approach. **This course may be eligible for Dual Enrollment credit.**

## **HS04108 American Pop Culture**

1 credit

College & Career Ready Challenge

Grade: 11, 12

Description: This course will examine the impact of pop culture in the United States that help make up our unique American culture. Students will analyze and predict how society affects pop culture and the way that pop culture impacts society. Each unit will include a brief overview of the significant historical developments of the various time periods. The course will cover the decades of the 1950's to today. We will examine the popular cultural developments that coincided with the historical events. Mass media, music, literature, film, radio, TV, sports, fashion will be topics students investigate to understand a variety of different pop culture influences that have become part of the American identity.

## **HS04115 Logic**

1 credit

College & Career Ready Challenge

Grade: 11, 12

Description: In this class we will discuss the foundations of logical thinking. Logic should be the foundation of any argument or position you take in your day-to-day life. Logic is essential when writing code in most computer languages, proposing an idea to your boss, or when making a big decision in life. The class will start with the language and foundations of logic then move into proposing and solving questions using logic.

## **HS04110 Modern American Government**

1 credit

College & Career Ready Challenge

Grade: 11, 12

Description: This course will examine what influences the modern U.S. government. The curriculum will analyze the philosophical underpinnings of the U.S. government, and the role courts have played in shaping our current legal landscape. The class will also focus on the history of the Civil Rights movement and evaluate its effects on society today. Lastly, the course will investigate political ideology, polling practices and the influences of the media on current politics, along with other political institutions which shape how the U.S. government operates.

## **HS04112 Global Human Rights**

1 credit

College & Career Ready Challenge

Grades: 11, 12

Description: Do humans have innate rights? If so, what do those rights entail? How are they being violated? What is being done to ensure respect for human rights? You will be able to answer these questions after examining the following topics: genocide, human trafficking, undocumented immigrants, refugees, and torture.

## Physical Education Description

The Pennsylvania School Code requires all students to attend courses of instruction in Physical Education. Three Physical Education credits and one health credit are required for graduation. The three credits can be a combination of PE, Holistic and Personal Fitness. One of the three credits must be a PE course. A student who is unable to participate in the assigned program due to a specific physiological condition could take part in a modified program to meet their needs. In order to enable the student and school to fulfill the Pennsylvania School Code mandate, please see your physical education teacher for more appropriate documentation.

### HS14009 Athletic Performance

0.5 credit

Standard Challenge

Grade: 10, 11, 12

Description: This course is designed for, but not limited to, student athletes. The course is a more advanced version of Personal Fitness, designed to enhance strength, speed, agility, and quickness (SAQ), along with overall athletic conditioning. This offering is ideal for students looking to elevate their game through comprehensive, high-intensity training sessions. Students will log their workouts using technology to allow for real-time tracking, personalized feedback, and to help students stay accountable.

### HS08003 Health/Driver Education

0.5 credit

Standard Challenge

Grade: 10

Description: This course will incorporate Driver Education and a variety of Health topics. One quarter will be Driver Education. This portion consists of driver theory and related driving topics. Students who successfully pass this portion, log 65 hours of driving and have a valid PA driver's permit may sign up for "Behind the Wheel" driver training with an instructor. The second part of the class will cover current Health topics, such as: nutrition, drugs and alcohol, mental health, CPR/AED and Basic First Aid certification, and healthy relationships/sexual health.

### HS08012 Holistic Fitness

0.5 credit

Standard Challenge

Grades: 10, 11 12

Description: This course is designed to introduce students, safely and accessibly, to the basic postures, breathing, techniques, and relaxation methods of yoga and mindfulness practices. Students begin to experience the benefits of stretching, moving, and breathing freely as they relieve built up stress, learn to relax, and ultimately get more out of day-to-day life. The goal of this course is to focus on attitudes and behaviors that will promote positive health and wellness for an individual throughout their lifetime.

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## **HS08011 Personal Fitness**

0.5 credit

Standard Challenge

Grades: 10, 11 12

Description: This course is designed to help students of all fitness levels achieve their personal health and wellness goals. Through a combination of cardiovascular exercise, strength training, flexibility work, and functional movements, participants will develop the physical skills and knowledge necessary to maintain a healthy lifestyle. This course provides the tools and support you need; all fitness levels are welcome! Students will log their workouts using technology to allow for real-time tracking, personalized feedback, and to help students stay accountable.

## **HS08002 Physical Education**

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: Physical Education allows the students to explore units of instruction in team sports, net and striking sports and lifetime activities.

## Special Education

Courses are offered on a rotating basis. This is a sampling of what has been offered in the past. New courses may be added based on teacher availability. Students will be scheduled for creative electives with the support of their case managers.

### HS09004 Adaptive Physical Education

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: Adapted physical education is required of the student who is not able to participate safely or successfully in the unrestricted activities of the regular physical education program. Our adapted physical education program is a “modification” of our regular physical education program. Each student is made aware of his physical potential and limitations through screening procedures by the PE staff, school nurse and/or physician’s recommendations. Through this understanding, the student attempts to increase his/her competency in a variety of skills and safety habits which are necessary to feel some measure of success in recreational sports and games.

### HS09044 Advanced Creative Animal Science

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: This course is designed to teach students about the animal kingdom. The lecture will be used to introduce topics while worksheets, models and hands on labs will be the primary focus. Outside activities will also be included as weather permits.

### HS09037 Advanced Creative Arts

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: This course is designed for students who are interested in enhancing their creative expression in the arts. Students will work on visual art projects that will develop social interaction as well as therapeutic artistic skills, using a variety of mediums. Additionally, this course will explore basic skills in two-dimensional design, drawing, painting, sculpture, and crafts. Opportunity is provided for the student to develop their creativity as they learn artistic skills.

### HS09045 Advanced Creative Botany

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: This course is designed to teach students about the basics of Botany. Students will get some lectures, but mostly in class activities. Activities include worksheets, models, hands-on labs and working in their garden. Lessons about fungus will also be included.

## HS09032 Advanced Creative Communications

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: A more in-depth introduction to the following: Use of Computing Devices, Navigate an Operating System, use a Keyboard Effectively, Create Documents using Word Processing Software and Excel, Demonstrate Basic Email Functions, Perform Basic File Management Techniques, Use of the Internet, Exploring social media, and Manage Personal Data. \*The communications teacher will collaborate with special education teachers to help support the academic curriculum.

## HS09048 Advanced Creative Health

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: Delivers age and developmentally appropriate information on topics pertaining to puberty, their bodies, sexuality, and healthy relationships. Students will be given the foundation to make responsible decisions. about their bodies and to build and maintain healthy relationships.

## ~~HS09050 Advanced Creative Library~~

~~0.5 credit~~

~~Standard Challenge~~

~~Grades: 10, 11, 12~~

~~Description: The intent of this course is to offer students the opportunity to experience what libraries offer. This might include book exploration, searching reputable Websites, playing board games, puzzling, or learning at interactive stations.~~

## HS09034 Advanced Creative Music

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: This adaptive music course offers an exploratory music experience for students with unique needs. Students will investigate sound by both listening to and creating music. Students will play percussion instruments and sing a variety of songs in different modes and meters. Students will use movement and dance to demonstrate the tempo and rhythm of songs in a variety of modes and meters. Through visual and aural demonstration of instruments, students will become aware of string, woodwind, brass, and percussion instruments. Students will have the opportunity to build an instrument. Students will explore and experience different musical styles such as pop, classical, jazz, opera, and world music.

## HS09035 Advanced Creative Travel

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: This course will focus on exploring different countries' cultures and tourism. Students will learn about geography, climate, education, tourist destinations, music, currency, world languages, international holidays, and cuisine of various countries.

### **HS09046 Creative Computer IT**

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: This adaptive technology course will cover digital citizenship, basic formatting on a variety of Microsoft applications, online social interactions, working on PCs and iPads, basic typing, and overall technology awareness and safety.

### **HS09002 Creative Theatre**

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: This course is designed for students who are interested in developing their creative expression in theatre arts. Students will work on performing arts projects that will develop social interactions and working in groups.

### **HS09047 Creative Technical Theatre**

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: Creative Technical Theatre is for the student who is looking to learn more about what happens to create a show and what goes on backstage. Students will learn basic technical theatre vocabulary, parts of technical theatre and the jobs and skills required. They will also get to be creative in creating models of their designs for sets and costumes. Students may have some real-life technical theatre experience.

### **HS09040 Creative Industrial Arts**

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: This hands-on project-based course will focus on basic concepts of measurement, woodworking techniques, and safety in the home, and use of hand/power tools and materials.

### **HS09033 General Creative Art**

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: This course is designed for students who are interested in developing their creative expression in the arts. Students will work on both visual and performing arts projects that will develop social interaction as well as therapeutic artistic skills.

### **HS09036 General Creative Communication**

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: A broad introduction to the use of computers as tools for creativity, communication and organizing information. Students will be exposed to keyboarding and Microsoft Office software (Word, and PowerPoint), Internet access, and Internet safety on a basic level.

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## **HS09039 General Creative Music**

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: This course is designed for students who are interested in creating and performing music in a socially interactive way.

## Elective Course Descriptions

### HS12013 A+ Certification – Computer Technician

1 credit

College & Career Ready Challenge

Grades: 10, 11, 12

Description: This course is designed for students seeking career-oriented, entry-level hardware and software skills. Target students include those who want to prepare for careers in information and communication technology (ICT) and students who want to gain skills and working knowledge of how computers work, how to assemble computers, and how to troubleshoot hardware and software issues. Students who successfully complete this course will be able to design, build, troubleshoot, implement, and maintain computer systems in a professional environment. This course curriculum has been designed as such to prepare students for successful completion of the CompTIA A+ Certification exam. A student may opt to take the A+ Certification exam off-site and at the student's expense.

### HS12002 Accounting I

1 credit

College & Career Ready Challenge

Grades: 10, 11, 12

Description: Accounting is the system of recording and summarizing business and financial transactions in journals and ledgers and then analyzing, verifying, and reporting the results as financial statements. Technology is integrated throughout the class teaching students to journalize accounting transactions, post to ledger accounts, and prepare financial statements using both technology and traditional accounting methods. A student is given the opportunity to build the foundation for continued studies in the areas of Business Administration, Finance and Accounting. Accounting is recommended for students who are contemplating either two- or four-year programs in accounting or business-related fields. **This course may be eligible for Dual Enrollment credit.**

### HS05019 Acting I

.5 credit

Standard Challenge

Grades: 11, 12

#### **Description:**

Description: This performance-based, project-oriented course offers students the opportunity to explore various acting styles and techniques used by the world-renowned Theatre professionals to create their own tool belt on character development and quality performance on stage. Units of study for the semester will include Acting through Improvisation, Method Acting, Meisner Technique, and Theatre Exercises to improve Acting Skills. In the following academic year, a 2<sup>nd</sup> level will be added to allow completers of Acting I to explore more complex roles, difficult content, and varied techniques to challenge the actor.

### HS05020 Directing I

.5 credit

College and Career Ready Challenge

Grades: 9, 10, 11, 12

**Description:** Directing requires a keen, artistic eye and a love for the performing arts. In this course, students will learn the skills needed to direct theatrical scenes on stage and bring their creative visions to life. Through step-by-step research and analysis of professional works, students will learn to critique and evaluate performances. Scene study, script analysis, and a broad knowledge of technical theatre will give student directors the expertise needed to successfully direct live theatrical scenes.

## HS05018 Public Speaking

.5 credit

College and Career Ready Challenge

Grades: 9, 10, 11, 12

**Description:** Do you aspire to greatness? Knowing how to present in public is essential for most collegiate programs and careers. This course will teach students how to speak clearly and project their voices safely. Other areas of study include commanding an audience's attention and strategies to calm nerves/keep your focus.

## HS19009 Advanced Principles of Instruction: Literacy

1 credit

Honors Challenge

Grades: 11, 12

Description: This course is designed to develop competencies related to employability skills; developing relationships between school and the home; intrapersonal skills and professionalism. During this course students must participate in and document a practicum. A formal observation of the student must be conducted by the instructor during the latter part of the practicum experience. The student must submit a completed portfolio to the instructor by the end of this course.

- Capstone Collaborative Clinical Experience

## HS19010 Advanced Principles of Instruction: Numeracy

1 credit

Honors Challenge

Grades: 11, 12

Description: This course is designed to develop competencies related to employability skills; developing relationships between school and the home; intrapersonal skills and professionalism. During this course students must participate in and document a practicum. A formal observation of the student must be conducted by the instructor during the latter part of the practicum experience. The student must submit a completed portfolio to the instructor by the end of this course. \*Capstone Collaborative Clinical Experience

## HS05404 Advanced Video Production

1 credit

Honors Challenge

Grades: 11, 12

Description: This course is independent video production whereby students create individual videos from script to screen. In addition, this course will transition into *Special Event Media* for outside client-based productions. This will involve more time so as a level three course, students know the expectations of completing productions from script to screen. In addition, local television station could partner and share original content.

## HS22037 Advisory Block

0 credit

Grades: 10, 11, 12

Description: The WAHS Advisory Block is a period allocated for students and teachers to get together in small groups with a focus on relationships and community building. The topics discussed in the Advisory Block are determined by students and faculty and will therefore change over time. Some examples of themes that may be discussed are found below.

- Academic Achievement
- Career Development and Vision
- Community Service
- Diversity and Acceptance
- Problem Solving and Critical Thinking
- Self-Care and Balance, Community Service
- Student Voice
- Team and Culture Building

## HS02304 AP Personal Finance

1 credit

Grades: 10, 11, 12

Description: AP Personal Finance is a yearlong high school business and personal finance course that aligns closely with a college-level introduction to business course. Students explore the business disciplines of entrepreneurship, marketing, finance, accounting, and management through real-world business applications, case studies, and project-based learning. In addition, students learn and apply all the National Standards for Personal Financial Education created by the Council for Economic Education and the Jump\$tart Coalition for Personal Financial Literacy.

## HS05311 AP Studio Art A

1 credit

Advanced Placement Challenge

Grades: 11, 12

**Prerequisites: Fine Arts I or department approval**

Description: In this course students will choose from three portfolio options: Drawing, Two-Dimensional Design or Three-Dimensional Design. Specific requirements are established by the AP board. Portfolio will be completed in AP Studio Art IB.

## HS24006 AP French

1 credit

Advanced Placement Challenge

Grades: 11, 12

**Prerequisite: Completion of French III is required**

Description: The advanced placement course in the French Language emphasizes the use of language for active communication and helps students develop the ability to understand French in various contexts and a French vocabulary sufficiently ample for reading newspapers and magazine articles, literary texts, and other non-technical writings without dependence on a dictionary. Students will also develop the ability to express themselves coherently, resourcefully and with reasonable fluency and accuracy in both written and spoken French. Students are expected to communicate exclusively in the target language. Students will be required to take the Advanced Placement exam in French language. The cost of the exam will be covered by the school district.

## HS05309 AP Music Theory

1 credit

Advanced Placement Challenge

Grade: 12

### **Prerequisites: Music Theory I**

Description: The ultimate goal of an 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 score. The achievement of these goals may best be approached by initially addressing fundamental aural, analytical, and compositional skills using both listening and written exercises. Building on this foundation, the course should progress to include more creative tasks, such as the harmonization of a melody by selecting appropriate chords, composing a musical bass line to provide two-voice counterpoint, or the realization of figured-bass notation. Students will be required to take the Advanced Placement exam. The cost of the exam will be covered by the school district. The student on his/her own will do any additional preparation for the test.

## HS24015 AP Spanish

1 credit

Advanced Placement Challenge

Grades: 11, 12

### **Prerequisite: Completion of Spanish II is required**

Description: This advanced placement course in the Spanish language emphasizes conversation based on authentic reading materials and current events. There is also a large emphasis on culture. Students will enhance their knowledge of Spanish in the four skill areas of reading, writing, listening, and speaking. Students are expected to communicate exclusively in the target language. Students will be required to take the Advanced Placement exam in Spanish language and culture. The cost of the exam will be covered by the school district.

## HS05312 AP Studio Art B

1 credit

Advanced Placement Challenge

Grade: 12

### **Prerequisites: Fine Arts I or department approval**

Description: In this course students will choose from three portfolio options: Drawing, Two-Dimensional Design or Three-Dimensional Design. Specific requirements are established by the AP board. Portfolio will be started in AP Studio Art IA.

## HS05305 AP Studio Art 2-D Design

1 credit

Advanced Placement Challenge

Grade: 12

Description: AP Art and Design skill categories delineate overarching understandings central to the study and practice of art and design. The 2-D course consists of skills that encompass foundational to advanced learning over the span of the course with a focus on design such as use of color defined within the elements and principles of design. Students need to develop, practice, and apply these skills in a variety of contexts, culminating in a 2-D portfolio that will be evaluated by the College Board.

### **HS05307 AP Studio Art 3-D Design**

1 credit

Advanced Placement Challenge

Grade: 12

Description: AP Art and Design skill categories delineate overarching understandings central to the study and practice of art and design. The 3-D course consists of skills that encompass foundational to advanced learning over the span of the course with a focus on creating 3-D pieces such as ceramics and sculpture with a focus on height, weight and depth. Students need to develop, practice, and apply these skills in a variety of contexts, culminating in a 3-D portfolio that will be evaluated.

### **HS05311 AP Studio Art: Drawing**

1 credit

Advanced Placement Challenge

Grade: 12

Description: AP Art and Design skill categories delineate overarching understandings central to the study and practice of art and design. The drawing course consists of skills that encompass foundational to advanced learning over the span of the course with a focus on mark making such as drawing and painting. Students need to develop, practice, and apply these skills in a variety of contexts, culminating in a drawing portfolio that will be evaluated by the College Board.

## HS00802 Allied Health

Level I – 2 credits Honors Challenge - Must take Intro to Allied Health Grade: 10

Level II – 2 credits Honors Challenge – Must take Chemistry I CTE Grade: 11

Level III – 2 credits Honors Challenge – Must take Anatomy & Physiology CTE Grade: 12

Entering this CTE program is a three-year commitment. You can only drop the program after meeting with the principal and your school counselor. NOTE: Students will be required to complete/obtain: Clearances: PA State Police, Child Abuse and FBI, certain vaccines/immunizations (as required by clinical sites), toxicology screening (urine or blood) to participate in clinical experiences.

**Prerequisites: ENTRY TO ADVANCED LEVEL I, II, III REQUIRES PASSING COMPLETION OF THE PRIOR LEVEL**

Must have successfully completed Intro to Medical Sciences and submitted an application to enter Allied Health. Application process may be required to pass from Level I to Level II and/or to pass from Level II to Level III.

## HS14002 Allied Health I

2 credits

Honors Challenge - Must take Intro to Allied Health Grade: 10

Allied Health 1 involves theory, classroom-laboratory skills, and may have field trip/community event opportunities. The course content includes healthcare systems, legal and ethical responsibilities, medical terminology, infection control, client status, communications, anatomy and physiology, diseases and disorders, wellness and nutrition, behavioral health, body mechanics, human growth and development, safety precautions, personal qualities, health information technology, medical mathematics, cultural social and ethnic diversity, the health assistant, special populations, OSHA Certifications.

## HS14003 Allied Health II

2 credits

Honors Challenge – Must take Chemistry I CTE Grade: 11

Allied Health 2 continues with the above activities and adds the clinical component of the program. Up to four days per week, students engage in real work experience at community medical facilities such as (but not limited to): hospitals, medical offices, dental offices, emergency care facilities. Classroom content continues and includes nutrition and elimination, the surgical patient, specimen collection and testing, medical office assistant, office environment, office equipment, telephone etiquette, appointments, CPR and basic life support, emergency care, medical records, written communication.

## HS14004 Allied Health III

2 credits

Honors Challenge – Must take Anatomy & Physiology CTE Grade: 12

Allied Health 3 continues with the above activities and the clinical component of the program up to four days per week as described in Allied Health 2. Classroom content continues and includes phlebotomy, electrocardiography, accounting, insurance & coding, pharmacology, physical exams, ambulatory surgery, professionalism in healthcare, customer service in healthcare, EHR simulation. Class culminates with students taking the national certification exam for CCMA (Certified Clinical Medical Assistant).

### **HS05222 Art for Business**

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: Art for Business is designed as an integrated course for the study of visual representation for business applications, and the use of art across multiple areas in business disciplines. Students will explore the elements and principles of art and design while experiencing various methods materials in both 2-D and 3-D. Opportunity is provided for the student to develop graphics used in standard business applications, focusing on marketing, promotion, fashion, sports, and packaging. Students will develop career focused artifacts.

### **HS05220 Art for Education**

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: Art for education is designed as an integrated course for the study of Art Education and the use of art across multiple disciplines in education. Students will explore the elements and principles of art and design while experiencing various methods materials in both 2-D and 3-D. Opportunity is provided for the student to develop unit and lesson plans, focusing on historic and cultural backgrounds. The relationship of art to other disciplines will be discussed where applicable. Students will develop career focused artifacts.

### **HS05223 Art for Engineering**

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: Art for Engineering is designed as an integrated course for the study of art and the use of art across multiple disciplines in the realm of engineering. Students will explore the elements and principles of art and design while experiencing various methods materials in both 2-D and 3-D. Opportunity is provided for the student to develop and strengthen their visual aesthetic skill while applying what they learn in various project-based engineering applications. Students will develop career focused artifacts.

### **HS05221 Art for Sciences**

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: Art for Sciences is designed as an integrated course for the study of visual representation for scientific application and the use of art across multiple disciplines in the sciences. Students will explore the elements and principles of art and design while experiencing various methods and materials in both 2-D and 3-D. Opportunity is provided for the student to develop visual representation of scientific applications. The relationship of art to other disciplines will be discussed where applicable. Students will develop career focused artifacts.

## HS05208 Art History

0.5 credit

Standard Challenge

Grades: 10, 11, 12

### **Prerequisites: Intro to Visual Art I or departmental approval**

Description: This course is an introductory art history course. The course is a chronological overview of art and artistic expression including architecture, painting, and sculpture, as a reflection of its historical and sociocultural context. The functions and effects of works of art are also emphasized. Students will interpret and explore forms of artistic expression from the past and the present, from a variety of cultures. There will be a studio component to provide exploration of media and methods being studied.

## HS20201 Aviation I

2 credits

Honors Challenge

Grades: 10, 11, 12

### **Prerequisites: Intro to Aviation**

Description: The Aviation 1 (Private Pilot Knowledge Test Prep) course provides students with a comprehensive study of conceptual knowledge required to successfully pass the FAA Private Pilot knowledge test. Students will study and practice content including Aerodynamics, Human factors, Aircraft systems, Weather theory, Performance, Airports, Airspace, Flight planning, and other topics relevant to the exam and the safe operation of aircraft. Students that successfully complete the course may pursue the FAA Private Pilot Knowledge test through an official testing center. Classroom instruction may be supplemented with simulator use, site visits to aviation environments, and professional aviation consultation.

## HS20202 Instrument Written Test Prep

1 credit

College and Career Ready Challenge

Grades: 10, 11, 12

### **Prerequisites: Aviation 1 (Private Pilot Knowledge Test Prep)**

Description: The Aviation 2 (Instrument Written Test Prep) course curriculum includes the prerequisites specified in Title 14 CFR, Part 141, Appendix C for an instrument rating (airplane). Content covered includes: principles of instrument flight; the air traffic control system; instrument flight charts for Instrument Flight Rules (IFR) planning and flight; advanced aviation human factors and physiology; instrument FARs; various IFR approaches; procedures for IFR departure, enroute, and arrival operations; IFR flight planning and emergency procedures; analysis of weather information, conditions, and trends. Course content will be supplemented with field trips to aviation environments where applicable and procedural trainer time in the classroom.

## HS00901 Automotive Technology I & II & III

Level I – 2 credits H

Grades: 10, 11,12

Level II – 2 credits H- Must also take English 11 CCR CTE

Grades: 11, 12

Level III –2 credits H- Must also take Consumer Math CTE

Grade: 12

Entering this CTE program is a three-year commitment. You can only drop the program after meeting with the principal and your school counselor.

**Prerequisites: ENTRY TO ADVANCED LEVEL I, II, III REQUIRES COMPLETION OF THE PRIOR LEVEL**-Intro to Automotive Technology and Building Construction and submitted application for Automotive Technology. Space limited.

Description: This course provides classroom and hands on lab instruction in service and maintenance in Automotive Technology. Students will perform task completion on various vehicle makes and models. There is also instruction in small, air-cooled power equipment and a brief introduction to oxy-acetylene, arc and mig welding. Emphasis is placed on automotive engine repair, engine performance, automotive electrical systems, automotive brakes and automotive steering, and suspension. Students will be prepared for advanced schooling, or they would be able to gain entry level employment upon graduation in the exciting transportation technology field.

## HS20102 Automotive Technology I

2 credits

Honors Challenge

Grades: 10,11,12

Course Description: This introductory course prepares students for careers as professional automotive technicians by exploring the fundamentals of automotive systems, diagnostics, and service. Students engage in hands-on lab activities focused on engineering principles, computer applications, and safe shop practices. Topics include automotive chemicals and safety, tool usage, shop operations, and career pathways.

The curriculum integrates communication, problem-solving, customer relations, technical writing, computer science, measurement systems, blueprint reading, and hazard prevention. Students will gain foundational knowledge of the internal combustion engine, examining its systems to understand how it operates.

The course also introduces engine performance and diagnostic principles, applying physics, thermodynamics, and chemistry to real-world scenarios. Students will study ignition systems, fuel management, emissions control, and computerized engine diagnostics. Emphasis is placed on strategy-based troubleshooting, interpreting diagnostic trouble codes (DTCs), using scan tools and digital multimeters, and accessing electronic service information (ESI). Students will learn to identify vehicle components, adjust ignition timing, and perform inspections to determine and complete necessary repairs.

## HS20103 Automotive Technology II

2 credits

Honors Challenge

Grades: 11,12

Course Description: This course provides foundational instruction in automotive electricity and electronics, focusing on the principles of electrical theory and their application to modern vehicle systems. Students will build on prior knowledge of electrical parameters—including voltage, current, resistance, power, magnetism, electromagnetism, and magnetic induction—and apply these concepts to diagnose and repair automotive electrical systems.

Key topics include the use of Ohm's Law in both mathematical and practical applications, and the operation of series, parallel, and series-parallel circuits. Students will gain hands-on experience using a digital multimeter (DMM) to measure and analyze electrical values and troubleshoot circuit behavior.

The course covers a wide range of automotive electrical systems, including:

- Battery, charging, and starting systems
- Lighting, gauges, and accessories
- Automotive computers and solid-state devices
- Communication systems and onboard diagnostics
- 

Students will learn to apply a scientific process of elimination to diagnose electrical faults, interpret customer concerns, and verify system performance. Emphasis is placed on safe practices, accurate testing, and the use of modern diagnostic tools to service both car and truck electrical systems.

### HS20104 Automotive Technology III

2 credits

Honors Challenge

Grade: 12

Course Description: Automotive Technology III is an advanced-level course designed for students pursuing deeper knowledge and hands-on experience in vehicle systems and diagnostics. This course emphasizes the inspection, service, and repair of brake systems, steering and suspension systems, and the application of automotive diagnostic strategies.

Students will build on foundational skills to perform detailed component analysis, system testing, and troubleshooting using industry-standard tools and procedures. Topics include hydraulic and electronic brake systems (including ABS), steering geometry and alignment, suspension components and ride control systems, and the use of scan tools and service information for diagnosing drivability concerns.

Through lab-based instruction and real-world scenarios, students will:

- Inspect and service disc and drum brake systems
- Diagnose and repair steering and suspension components
- Perform wheel alignments and evaluate ride quality
- Use scan tools and multimeters to interpret diagnostic trouble codes (DTCs)
- Apply systematic diagnostic routines to resolve performance and safety issues

This course prepares students for ASE certification areas and entry-level employment in the automotive industry, while reinforcing safety, professionalism, and technical accuracy.

### HS05117 S1 / HS05118 S2 Band

1 credit

College & Career Ready Challenge

Grades: 10, 11, 12

**Prerequisites: Previous band experience**

Description: Band meets every other day for one block. Rehearsals emphasize technique and quality of play through wind band literature. **Curricular requirements: All band members who fulfill their curricular requirements are eligible for participation in jazz ensemble, PMEAs band festivals, collegiate honors bands, and band trips. Summer Band Camp is a requirement for all band students. Students who do not fulfill this requirement will receive a "0" for the course and be removed from band. Attendance at selected rehearsals and performances, including summer band camp.**

## HS05110 S1 / HS05116 S2 Band/Choir

1 credit

College & Career Ready Challenge

Grades: 10, 11, 12

### Prerequisites: Approval of instrumental and choral teachers

Description: This elective allows selected students to participate in both concert choir and band. The music skills of these students must be well above average. Both the band and chorus instructor may request a demonstration of ability. **Curricular requirements: All band members who fulfill their curricular requirements are eligible for participation in jazz ensemble, PMEA band festivals, collegiate honors bands, and band trips. Summer Band Camp is a requirement for all band students. Students who do not fulfill this requirement will receive a "0" for the course and be removed from band. Attendance at selected rehearsals and performances, including summer band camp.**

## HS05231 Basic Drawing

0.5 credit

Grades: 10, 11, 12

Elective credit

Description: This course will introduce students to basic drawing, perspective, and sketching techniques using various media to depict a variety of subjects. This course is appropriate for non-artists that would like to get some basic drawing skill that will help them when wanting to sketch an idea or visually get their point across and communicate two- dimensionally. Digital drawing programs and apps will also be explored using an iPad.

## HS05104 Beginning Piano

0.5 credit

Standard Challenge

Grades: 10

Description: Beginning piano will provide piano/keyboard instruction in a classroom setting for students with little previous training. This course will offer the non-music and/or the music student opportunities to obtain basic piano skills. Grading is based on class participation, individual achievement, as well as written and performance evaluations.

## HS00902 Building Construction Trades

Level I – 2 credits Standard Challenge

Grades: 10, 11, 12

Level II – 2 credits Standard Challenge - Must also take English 11 CCR CTE

Grades: 11, 12

Level III – 2 credits Standard Challenge - Must also take Consumer Math CTE

Grade: 12

Entering this CTE program is a three-year commitment. You can only drop the program after meeting with the principal and your school counselor.

**Prerequisites: ENTRY TO ADVANCED LEVEL I, II, III REQUIRES COMPLETION OF THE PRIOR LEVEL** Intro to Automotive Technology and Building Construction and submitted application for Building Construction. Space limited.

Description: The Building Construction course of study is an instructional program that prepares an individual for employment or continued education in the occupations of Carpentry, Electrical Wiring, Masonry, or Plumbing. This program is a hands-on introduction to building materials, components, methods, and sequences used in residential construction. The course reveals the fundamentals of safety, tools, carpentry, masonry residential wiring and residential plumbing. It is designed to give students basic, entry level skills in construction related trades along with an overview of career opportunities available. This course covers the vital skills necessary to enter the residential and light commercial construction trades.

## HS17002 Building Construction I

2 Credits

Honors Challenge

Grades: 10, 11, 12

**Course Description:** This introductory course prepares students for careers as professional automotive technicians by exploring the fundamentals of automotive systems, diagnostics, and service. Students engage in hands-on lab activities focused on engineering principles, computer applications, and safe shop practices. Topics include automotive chemicals and safety, tool usage, shop operations, and career pathways.

The curriculum integrates communication, problem-solving, customer relations, technical writing, computer science, measurement systems, blueprint reading, and hazard prevention. Students will gain foundational knowledge of the internal combustion engine, examining its systems to understand how it operates.

The course also introduces engine performance and diagnostic principles, applying physics, thermodynamics, and chemistry to real-world scenarios. Students will study ignition systems, fuel management, emissions control, and computerized engine diagnostics. Emphasis is placed on strategy-based troubleshooting, interpreting diagnostic trouble codes (DTCs), using scan tools and digital multimeters, and accessing electronic service information (ESI). Students will learn to identify vehicle components, adjust ignition timing, and perform inspections to determine and complete necessary repairs.

## HS17003 Building Construction II

2 Credits

Honors Challenge

Grades: 11, 12

**Course Description:** This course provides foundational instruction in automotive electricity and electronics, focusing on the principles of electrical theory and their application to modern vehicle systems. Students will build on prior knowledge of electrical parameters—including voltage, current, resistance, power, magnetism, electromagnetism, and magnetic induction—and apply these concepts to diagnose and repair automotive electrical systems.

Key topics include the use of Ohm's Law in both mathematical and practical applications, and the operation of series, parallel, and series-parallel circuits. Students will gain hands-on experience using a digital multimeter (DMM) to measure and analyze electrical values and troubleshoot circuit behavior.

The course covers a wide range of automotive electrical systems, including:

- Battery, charging, and starting systems
- Lighting, gauges, and accessories
- Automotive computers and solid-state devices
- Communication systems and onboard diagnostics

Students will learn to apply a scientific process of elimination to diagnose electrical faults, interpret customer concerns, and verify system performance. Emphasis is placed on safe practices, accurate testing, and the use of modern diagnostic tools to service both car and truck electrical systems.

## HS21004 Building Construction III

2 Credits

Honors Challenge

Grade: 12

Automotive Technology III is an advanced-level course designed for students pursuing deeper knowledge and hands-on experience in vehicle systems and diagnostics. This course emphasizes the inspection, service, and repair of brake systems, steering and suspension systems, and the application of automotive diagnostic strategies.

Students will build on foundational skills to perform detailed component analysis, system testing, and troubleshooting using industry-standard tools and procedures. Topics include hydraulic and electronic brake systems (including ABS), steering geometry and alignment, suspension components and ride control systems, and the use of scan tools and service information for diagnosing drivability concerns.

Through lab-based instruction and real-world scenarios, students will:

- Inspect and service disc and drum brake systems
- Diagnose and repair steering and suspension components
- Perform wheel alignments and evaluate ride quality
- Use scan tools and multimeters to interpret diagnostic trouble codes (DTCs)
- Apply systematic diagnostic routines to resolve performance and safety issues

This course prepares students for ASE certification areas and entry-level employment in the automotive industry, while reinforcing safety, professionalism, and technical accuracy.

This course covers the assembly, installation, and repair of piping, fittings, and fixtures for water supply and drainage systems in accordance with specifications and plumbing codes. Students learn to read and interpret building plans, plumbing drawings, and pipe system sketches to determine required materials, tools, and the sequence of installations. Instruction includes inspecting structures to identify obstructions, laying out and marking locations for pipes, connections, and passage holes, and cutting openings in walls and floors using appropriate hand and power tools. Learners cut and thread pipe; assemble and install valves, fittings, and piping made from metallic and nonmetallic materials; and join piping using approved mechanical and joining methods while following OSHA-aligned safety practices and using PPE such as safety glasses, gloves, hearing protection, and proper footwear and clothing. The course also addresses installation, repair, and maintenance of common fixtures such as sinks, toilets, bathtubs, water heaters, disposals, and dishwashers, with a strong emphasis on code-compliant work, understanding relevant plumbing codes and regulations, and maintaining safe, organized work areas.

## HS12005 Business Law

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: This course develops an understanding of business and personal law, legal procedures and remedies, rights and duties of citizens, consumers, workers and business owners, and applies principles to legal situations. Topics of study include ethics, juvenile justice, courtroom procedure and civil, criminal consumer, contract, sales, credit, employment, housing and business law.

## HS12003 Business Principles & Management

1 credit

College and Career Ready Challenge

Grades: 10, 11, 12

Description: Business Principles & Management includes how businesses operate and are managed to be successful in our global economy. This course includes topics in the areas of business ownership, business management, human resource management, marketing, accounting, global business, ethics, and finance. This course is strongly recommended for students interested in pursuing careers in accounting, management, marketing, finance or entrepreneurship. [This course may be eligible for Dual Enrollment credit.](#)

## HS05206 Ceramics & Sculpture I

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: This course will introduce students to the design of three-dimensional sculpture using clay and a variety of other interesting materials. Additive, subtractive and manipulation techniques will be used to explore the sculptural form. Students will design using clay, paper, wire, cardboard, wood and mixed media. The serious sculptor or three-dimensional designer should follow up with Ceramics and Sculpture II, Fine Arts II, AP Studio Art IA & IB and/or Independent where you can specialize further.

## HS05217 Ceramics & Sculpture II

0.5 credit

College and Career Ready Challenge

Grades: 11, 12

Description: This course is designed for the serious sculptor to advance their artistic techniques and knowledge in the field of Ceramics. Students will build on previous skills and will produce ceramic ware by exploring various techniques that may include hand building, wheel throwing and glazing. Emphasis will be placed on the development of a theme, critical analysis and production of high-quality artwork. The class is recommended for students who excel in Ceramics. Students who take this course should have a high level of motivation, diligence, commitment, and independence.

## HS00805 Child Care I

Level II – 2 credits Honors Challenge – Must also take English 11 CCR

Grade: 11

Level III – 2 credits Honors Challenge – Must also take Consumer Math

Grade: 12

Entering this CTE program is a three-year commitment. NOTE: Students will be required to complete/obtain: Clearances: PA State Police and Child Abuse. You can only drop the program after meeting with the principal and your school counselor.

**Prerequisites: Must have successfully completed Intro to Child Care and submit an application to enter Child Care I.** Application process may be required to pass from Level I to Level II. Space limited.

Description: The Child Care program is designed for any student who may be considering a professional career working in childcare or a child-related career such as: preschools, kindergarten programs, community daycare centers, before and after school daycare centers, private homes, educational consulting agencies, or early childhood classrooms. The program also begins to prepare the student to work towards the CDA-Ready Certification by developing a professional portfolio of resources, materials, and evidence of practical lab work. Each course consists of 1) the theory of early childhood education, 2) the planning of early childhood learning experiences, and 3) the clinical experience of working with children through the hands-on World of Wonders (WOW) child development lab. Three days per week, students will be working with children ages 3-5 in the WOW program. Topics covered throughout the program include: professionalism, health and safety, understanding the learning environment including the use of culturally responsive learning centers and material; child development including the investigation of the needs for dual language learners; classroom management and positive guidance; standards, curriculum and assessment, curriculum development including a compilation of culturally responsive and diverse learning materials that utilize current technology; incorporate the Pennsylvania Learning Standards for Early Childhood, including diversity, to all learning activities and experiences; program partnerships and identifying the role that cultures and values of the family play in children's role that cultures and values of the family play in children's upbringing; and participate in clinical experiences that promote inclusivity. In addition, students may earn up to 480 hours of experience working with young children.

## HS19002 Child Care I

2 credits

Honors Challenge

Grade: 10

The Child Care Career and Technical Education program is designed for high school students interested in pursuing careers in early childhood education or child-related fields such as preschools, daycare centers, and educational consulting. Through a combination of classroom instruction and hands-on experience in the World of Wonders (WOW) child development lab, Child Care I students explore key topics including: observation skills, lesson planning in art, language, literacy, play, and social studies, qualities necessary for working with children, child care program types, major developmental theories, and growth from birth through middle childhood. Participants work directly with children ages 3–5 three days a week, gaining hours of clinical experience. The program also supports students in building a professional portfolio toward CDA-Ready Certification.

**HS19003 Child Care II**

2 credits

Honors Challenge-Must also take English 11 CCR

Grade: 11

The Child Care Career and Technical Education program is designed for high school students interested in pursuing careers in early childhood education or child-related fields such as preschools, daycare centers, and educational consulting. Through a combination of classroom instruction and hands-on experience in the World of Wonders (WOW) child development lab, Child Care II students explore key topics including: developing guidance skills, managing classroom challenges and routines, creating safe and engaging environments, selecting appropriate toys and equipment, promoting children's health and safety, planning nutritious meals and snacks, and writing corresponding lesson plans. Participants work directly with children ages 3–5 three days a week, gaining hours of clinical experience. The program also supports students in building a professional portfolio toward CDA-Ready Certification.

**HS19004 Child Care III**

2 credits

Honors Challenge – Must also take Consumer Math

Grade: 12

The Child Care Career and Technical Education program is designed for high school students interested in pursuing careers in early childhood education or child-related fields such as preschools, daycare centers, and educational consulting. Through a combination of classroom instruction and hands-on experience in the World of Wonders (WOW) child development lab, Child Care III students explore key topics including: curriculum planning, creating lesson plans in language and literacy, math, science, and technology, engaging families, exploring career opportunities, completing the professional portfolio, and preparing for the cumulative NOCTI assessment. Participants work directly with children ages 3–5 three days a week, gaining hours of clinical experience. The program also supports students in building a professional portfolio toward CDA-Ready Certification.

**HS12015 Computer Programming**

1 credit

College &amp; Career Ready Challenge

Grades: 10, 11, 12

Description: This course is an introductory course in object-oriented computer languages and general computer science. This course is intended to provide familiarity with general-purpose programming by introducing fundamental programming concepts and programming languages. The process of defining a problem, breaking it down into a series of smaller problems and finally writing the code to solve it is followed. This course is a great introduction to both fundamental programming concepts and programming languages in addition to providing a solid background in general computer science understanding. Logical thinking skills and proper programming techniques are emphasized.

**HS05119 S1 / HS05120 S2 Choir**

1 credit

College &amp; Career Ready Challenge

Grades: 10, 11, 12

Description: Choir meets for 1 block every other day all year. The basic requirements for earning the credit for choir are: 1Daily class participation and memorization of music for public concerts, Participation in the Spring and Winter Concerts, All Choir members who fulfill their curricular requirements are eligible for participation in Chamber Singers, Show Choir, PMEA and NAFME Choral Festivals and Choir trips. Participation in additional concerts announced by the director at least three weeks prior to the commitment.

## HS01026 Contemporary Literature College and Career Ready

0.5 credit

College & Career Ready Challenge

Grades: 10, 11, 12

Description: Students enrolled in Contemporary Literature will continue to increase and refine their communication, reading, and critical thinking skills. Students will plan, draft, and complete written compositions on a regular basis. Additionally, Contemporary Literature students will follow a rigorous reading schedule grounded in multiple genres from world literature including selected stories, dramas, novels, poetry, non-fiction, and persuasive writing.

## HS16008 Cooking for Fun!

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: Cooking for Fun! is a course designed to teach students the basic skills necessary to make food preparation an enjoyable and safe experience. Students will learn how to use common cooking equipment and basic food preparation techniques which are integrated into cooking labs. Cooking labs will focus on fun foods to make and eat such as pasta and homemade sauces, quesadillas, appetizers, soups and biscuits, cookies, soft pretzels, and other simple recipes selected by the students. Students who wish to continue their learning may enroll in the Foods elective or apply for enrollment into the Culinary Arts CTE program after successful completion of this course.

## HS00701 Culinary Arts

Level I – 2 credits Honors Challenge

Grades: 10, 11, 12

Level II – 2 credits Honors Challenge - Must also take English 11 CCR

Grades: 11, 12

Level III – 2 credits Honors Challenge - Must also take CTE Consumer Math

Grade: 12

Entering this CTE program is a three-year commitment. You can only drop the program after meeting with the principal and your school counselor.

**Prerequisites: ENTRY TO ADVANCED LEVEL I, II, III REQUIRES COMPLETION OF THE PRIOR LEVEL-**Must have successfully completed Intro to Culinary Arts and submit an application to enter Culinary Arts I. Application process may be required to pass from Level I to Level II. Space limited.

Description: This course of study is recommended for the student who plans to pursue further study and employment related to the food service industry. Specialized learning experiences include laboratory work: knife cuts, butchery, heat applications, sauce making, breakfast cookery, vegetable cookery, salads, breads, and pastries. Students will write menus and execute the operation of a restaurant during the three course levels. Students will also be involved in managing catered events throughout the school year. The instruction can lead to entry level employment in the hospitality industry and serves to prepare students for postsecondary Culinary Arts or Hospitality programs." Students who have successfully completed Intro to Culinary Arts, Cooking for Fun! or Foods class will be given priority.

**HS16002 Culinary Arts I**

2 Credits

Honors Challenge

Grades: 10,11, 12

This introductory course provides students with foundational culinary skills and knowledge through eight comprehensive units. Topics include safety and sanitation, knife skills, kitchen tools and equipment, standardized recipes, measurement techniques, and nutrition principles. Students gain hands-on experience preparing breakfast foods and working with fruits and vegetables, while also exploring career opportunities and operational roles within the food industry. Instruction combines demonstrations, labs, and interactive activities, with assessments designed to measure proficiency in both theory and practice.

**HS16003 Culinary Arts II**

2 Credits

Honors Challenge

Grade:11,12

This advanced course builds on Level I foundations, emphasizing professional culinary techniques and industry standards. Students refine skills in cold food preparation, advanced cooking methods, and baking, while exploring menu planning, cost control, and inventory management. The curriculum includes hands-on practice with stocks, soups, sauces, meats, poultry, seafood, and pastry fundamentals, complemented by lessons in seasoning, flavor development, and safe food handling. Designed for grades 11–12, this course prepares students for real-world culinary careers through rigorous labs, demonstrations, and applied projects.

**HS16004 Culinary Arts III**

2 Credits

Honors Challenge

Grade: 12

This advanced capstone course prepares students for professional culinary careers by refining skills in baking, hot food preparation, and service management. Learners master artisan breads, laminated doughs, and specialty desserts; apply advanced cooking techniques such as sous vide and flambé; and execute professional plating standards. The program emphasizes both back- and front-of-house operations, food safety, workflow management, and guest relations, while integrating technology for POS systems, inventory control, and digital menu costing. Students complete career readiness activities, including resume building and mock interviews, and culminate their experience by designing and executing a full-service menu in a simulated restaurant environment.

**HS05009 Dance**

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: This performance-based class will introduce students to three major styles of dance: Ballet, Jazz/Modern, and Broadway. Students will be taught proper technique, positions, and steps for each genre. Students will also research and critique famous dances and choreographers throughout history.

**HS19007 Education of Exceptional Children**

1 credit

Standard Challenge

Grades: 11, 12

Description: Students will become familiar with a range of exceptionalities and learn about the associated educational support available for students with specific needs. They will collaborate with experts in the field and address topics like: cultural inclusion, family involvement, IEPs and 504s (modifications and adaptations). This includes 30 hours of professional field experience.

## HS21006 Engineering and Design

1 credit

College & Career Ready Challenge

Grades: 10, 11, 12

### Prerequisites: Intro to Technology and Engineering

Description: Engineering and Design is an intense look into the design and creation of modern products and technologies. Students develop an understanding of the engineering design process and how it may be used in the developing and manufacturing of everyday products. Blueprint reading, sketching for design, Computer Aided Design, mathematical and geometric relationships, visual and functional analysis, teamwork and presentation skills, engineering careers, and trends in engineering are just some of the unit topics covered in this course. Additionally, students will be utilizing leading parametric modeling software to create 3-D computer models of mechanical products and to analyze their physical properties.

## HS00704 Engineering Technology

Level I – 2 Honors credits

Grades: 10, 11, 12

Level II – 2 Honors credits - Must also take Physics I

Grades: 11, 12

Level III – 2 Honors credits - Must also take Science Fiction & Tech in Lit

Grade: 12

Entering this CTE program is a three-year commitment. You can only drop the program after meeting with the principal and your school counselor.

**Prerequisites: ENTRY TO ADVANCED LEVEL I, II, III REQUIRES COMPLETION OF THE PRIOR LEVEL**-Exploring Technology and Engineering, submitted application and CTE recommendation form from Exploring teacher. Space limited.

Description: Engineering Technology is a course of study recommended for a student who plans to pursue a career in engineering, manufacturing, transportation, logistics, electronics, or automation. This program prepares individuals to apply knowledge, innovation and technical skills in the engineering and technology fields. Instruction includes safety, ethics, power, problem solving, teamwork, engineering graphics, automated systems, fundamentals of electronics and manufacturing all while adhering to the Science, Technology, Engineering, Art and Mathematics (STEAM) Initiative. Students will have exposure to and hands on experience with current technologies such as Computer Aided Design software, Computer Aided manufacturing software, additive manufacturing machines (3D Printing), and CNC (Computer Numeric Control) machines. Students completing this program will have the opportunity to graduate with an industry accredited certification.

## HS21002 Engineering Technologies I

2 credits

Honors Challenge

Grades: 10,11,12

Engineering Technologies I is an intense look into the design and creation of modern products and technologies. Students develop an understanding of the engineering design process and how it may be used in the development and manufacturing of everyday products. Blueprint reading, sketching for design, Computer Aided Design, Mathematical and Geometric relationships, visual and functional analysis, teamwork and presentation skills, engineering careers, and trends in engineering are just some of the unit topics covered in this course. Additionally, students will be utilizing leading parametric modeling software to create 3-D computer models of mechanical products and to analyze their physical properties.

## **HS21003 Engineering Technologies II**

2 credits

Honors Challenge

Grades: 11,12

Engineering Technologies II is a concentrated examination into Energy, Power, Electronics and Automation with an underlying focus on careers and industry certifications. Through hands-on activities, students will be exposed to where our energy comes from and how engineers use it to power systems in our technologically driven society. Students will explore the topics of basic electricity and demonstrate their knowledge through the construction of electrical circuits. Ultimately, students will tie all this together by building, programming and simulating robotic systems and programable logic controllers.

## **HS21004 Engineering Technologies III**

2 credits

Honors Challenge

Grade: 12

This hands-on, project-based course explores the cutting-edge technologies and systems that drive modern manufacturing and industrial automation. Students will gain in-depth experience with Computer-Aided Manufacturing (CAM), Programmable Logic Controllers (PLCs), and industrial control systems, while developing a strong foundation in advanced manufacturing processes and digital fabrication techniques.

Through real-world applications and industry-standard tools, students will:

- Design and simulate manufacturing workflows using CAM software.
- Program and troubleshoot PLCs for automated control of industrial systems.
- Analyze and optimize production systems for efficiency and reliability.
- Explore robotics, sensors, and human-machine interfaces (HMIs).
- Understand safety protocols, lean manufacturing principles, and smart factory concepts.

## **HS12004 Entrepreneurship**

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: Students will identify the fundamentals of business creation and discover the personal characteristics needed to be a successful entrepreneur. Research will be done to identify business opportunities on the local, domestic and global level. A major component of the course will be the development of a hypothetical business plan for the student's unique business venture.

## **HS14005 Exercise Science and Sports Medicine I**

2 credits

Honors Challenge

Grade: 11

**Prerequisites: Intro to Medical Science.**

Description: Exercise Science and Sports Medicine program is designed for those students interested in the therapy, medical or fitness fields such as Physical Therapy, Athletic Training, Occupational Therapy, Fitness Instructor and Physical Education. The program covers the legal and ethical issues in medicine, emergency care, infection control, injury prevention, treatment, and rehabilitation. This program will develop clinical skills as well as knowledge on many aspects of health. Upon completion of Level I, students will be certified in First Aid, CPR/AED through the American Health and Safety Institute, as well as Blood Borne Pathogens through the American Safety and Health Institute.

## **HS14006 S1 / HS14007 S2 Exercise Science and Sports Medicine II**

3 credits

Honors Challenge

Grade: 12

**Prerequisites: Must take Anatomy & Physiology**

During level II students will spend the fall semester in clinical rotations at various local physical therapy clinics and Wayne Memorial Hospital. The spring semester will be back in the classroom studying exercise science and nutrition.

## **HS12021 Exploring Economics**

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: This course will introduce students to the principles of economics. Students will learn concepts from both macroeconomics and microeconomics. Topics covered will include supply and demand, fiscal policy, gross domestic product, elasticity, scarcity, economics systems and more. Students will learn how to think like an economist and gain exposure to basic economic terms and ideas.

## **HS05010 Fashion and Costumes Through the Ages I**

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: This class will explore trends in fashion and theatrical costuming from the 18<sup>th</sup> through 21<sup>st</sup> centuries in Europe and North America. In this hands-on course, students will learn valuable skills such as hand-sewing, machine-sewing and basic pattern design. If you have an interest in fashion or sewing, this is the course for you.

## **HS05011 Fashion and Costumes Through the Ages II**

0.5 credit

College and Career Ready Challenge

Grades: 10, 11, 12

### **Prerequisites: Passing grade in Fashion and Costumes Through the Ages**

Description: A continuation of Fashion and Costuming I, here students will further develop their knowledge of machine sewing and pattern reading. Students will also create one-of-a-kind designs and learn how to drape/pattern these designs for custom-made apparel. This course is intended for those students seriously interested in a career in fashion.

## **HS05207 Fiber Art**

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: This course introduces the students to a variety of crafting techniques in the medium of fiber. Students learn the basics of fiber techniques, such as weaving, felting, batik, sewing, textile techniques, papermaking, and surface manipulation and embellishment to create both decorative and utilitarian pieces. Students will have the opportunity to combine other mediums with these pieces as desired to create their own original designs.

## **HS05202 Fine Arts I**

1 credit

Standard Challenge

Grades: 10, 11, 12

### **Prerequisites: Intro to Visual Art I and II**

Description: Fine Arts I is a class designed for serious art students wishing to sharpen his/her artistic skills and learn advanced techniques in painting, sculpture, drawing and printmaking techniques.

## **HS05203 Fine Arts II**

1 credit

College and Career Ready Challenge

Grades: 10, 11, 12

### **Prerequisites: Intro to Visual Art I or departmental approval**

Description: This course will provide students with an extensive background in advanced techniques of drawing and painting using thematic units. Individual needs and creativity will be stressed as well as historical background study of the various major art trends and styles. The student will learn more advanced pottery and craft techniques and have the opportunity for individual work.

## HS16005 Foods

1 credit

Standard Challenge

Grades: 10, 11, 12

Description: The Foods elective is a comprehensive course that covers kitchen safety and sanitation, basic culinary skills, recipe interpretation, nutrition and wellness, MyPlate guidelines, food preparation techniques, global cuisines, and food-related career paths. Students will gain hands-on experiences and theoretical knowledge, learning to cook a variety of dishes. Students will engage in practical cooking assignments with a focus on participation and teamwork. Students interested in furthering their study of food may apply after the successful completion of this course for entry into the Culinary Arts Career & Technical program.

## HS24001 French I

1 credit

College & Career Ready Challenge

Grades:10, 11, 12

Description: The objective of the French I course is to develop basic mastery in the four skills of listening, speaking, reading, and writing as well as francophone cultures. Recommended for all 9-12 grade students with average or better grades in English.

## HS24002 French II

1 credit

College & Career Ready Challenge

Grades: 10, 11, 12

**Prerequisite: Passing grade in French I is required**

Description: The second level studies in French attempt to complete the student's mastery of basic language skills, which would enable the student to compete successfully in collegiate study.

## HS24003 French III

1 credit

Honors Challenge

Grades: 10, 11, 12

**Prerequisite: Passing grade in French II is required**

Description: In this honors level course, it is expected that the students develop a more spontaneous use of the language. Advanced grammatical structures are the focus of this course. Beginning literature is also studied. Students are expected to begin communicating exclusively in the target language.

## HS24020 German I

1 credit

College & Career Ready Challenge

Grades: 10, 11, 12

Description: German I is an introduction to the basics of the German language. Some culture of the German-speaking people is integrated with the basic material. It is recommended for all 9-12 grade students with average or better grades in English.

## HS24021 German II

1 credit

College & Career Ready Challenge

Grades: 10, 11, 12

**Prerequisite: Passing grade in German I is required**

Description: The second level is a continuation into the study of German. There is practice in the four skills: reading, listening, writing, and speaking.

## HS24022 German III

1 credit

Honors Challenge

Grades: 10, 11, 12

**Prerequisite: Passing grade in German II is required**

Description: German III is an introduction to a second level course that will expand and refine communicative skills. Further emphasis will be on reading and comprehension.

## HS24023 German IV

1 credit

Honors Challenge

Grades: 10, 11, 12

**Prerequisite: Passing grade in German III is required**

Description: The focus of study is placed on reading various selections of authentic German reading materials, starting with basic and progressing to more difficult. Students will communicate in the target language.

## HS22005 Gifted Education Independent Study

0.5 credit

Honors Challenge

Grades: 10, 11, 12

Description: This course is available to students in the gifted education program and is designed to supplement the program. Students will still be able to participate in the gifted program if they do not choose to schedule this course. Under the guidance of the gifted education teacher, students will design an independent study program of their interest that matches standards in the Pennsylvania State Academics Standards. The students and teacher will design projects, goals and assessments. There are a few required units in this course.

## HS05226 Graphic Design I

1 credit

Standard Challenge

Grades: 10, 11, 12

**Prerequisites: Intro to Visual Art I or departmental approval**

Description: Graphic Design is a class that teaches art and technology. Students will use design as a creative and exciting process of communication. Students will also explore various methods used to create and combine words, symbols, images and color to produce a visual representation of ideas and messages. Students will use the basic elements and principles of art and learn how to use the computer programs Adobe Photoshop and Adobe InDesign.

## **HS05227 Graphic Design II**

1 credit

College and Career Ready Challenge

Grades: 11, 12

### **Prerequisites: Graphic Design I**

Description: This course is a continuation of art and technology working together to communicate ideas. Students will learn intermediate techniques for designing and creating effective promotional pieces, publications and digital art. Students will use creative thinking to solve communication and design concepts for the real world. Students will improve their skills and learn intermediate techniques in Adobe Photoshop and InDesign. Students will be introduced to Adobe Illustrator.

## **HS05228 Graphic Design III**

1 credit

College and Career Ready Challenge

Grades: 11, 12

### **Prerequisites: Graphic Design I and Graphics Design II**

Description: This course covers advanced study in design and production techniques and processes, including use of full color for publication design, advertising campaigns, promotional items and digital art. All projects are designed to provide practical experience in the design processes in communication, and creative problem solving. This course will provide opportunities for students to work with clients on actual projects in a professional environment. Advance design with Adobe Photoshop, Adobe InDesign and Adobe Illustrator software in the computer will be a primary focus in this class.

## **HS19006 Human Growth and Development**

1 credit

Standard Challenge

Grades: 10, 11, 12

### **Prerequisites: Intro to Education**

Description: This course prepares students to understand the nature of human development from conception through adolescence. Emphasis is placed on theories of physical, cognitive, and psycho-social development, the effect of heredity and the environment, the role of caregivers and the family, health and safety concerns, and contemporary issues.

## **HS05205 Illustration**

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: Students will be engaged in the process of developing ideas, sketching and working with visual references in order to communicate a concept through a visual image, such as creating a short children's book. Students will be encouraged to develop a personal style, understand and apply the principles of creative problem solving, and be challenged to explore a variety of techniques.

## **HS05204 Independent Fine Arts**

1 credit

Honors Challenge

Grades: 11, 12

### **Prerequisites: Fine Arts I or department approval**

Description: This course is designed for the art student to advance their artistic techniques and knowledge. The student will work on an independent program tailored to his/her specific needs in development of specific skills and portfolio presentation. All students are required to prepare a portfolio of all their work for a final exam grade.

## **HS20202 Instrument Written Test Prep**

1 credit

College & Career Ready Challenge

Grades: 10, 11, 12

### **Prerequisites: Intro to Aviation**

Description: includes the prerequisites specified in Title 14 CFR, Part 141, Appendix C for an instrument rating (airplane). Content covered includes: principles of instrument flight; the air traffic control system; instrument flight charts for Instrument Flight Rules (IFR) planning and flight; advanced aviation human factors and physiology; instrument FARs; various IFR approaches; procedures for IFR departure, enroute, and arrival operations; IFR flight planning and emergency procedures; analysis of weather information, conditions, and trends. Course content will be supplemented with field trips to aviation environments where applicable and procedural trainer time in the classroom.

## **HS05105 Intermediate Piano**

0.5 credit

College and Career Ready Challenge

Grades: 10, 11, 12

### **Prerequisite: Beginning Piano**

Description: This course is designed for the student who wishes to further their piano keyboard skills after the completion of Beginning Piano. This course will reinforce the concepts of keyboard playing, sight-reading, theory, and technique. Each student will be encouraged to proceed at his/her own pace. Grading is based on class participation, individual achievement, as well as written and performance evaluations.

## **HS05230 Intro to Animation**

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: Make Your Art Come Alive! From motion, timing, and structure to storyboarding, learn how to bring art to life. Animation has become increasingly prominent in social and cultural spaces and within a wide variety of fields ranging from film and video special effects, video games and identity branding to scientific visualization, virtual reality training, and courtroom presentations. Examine the history of the moving image and the power and influence of animation and computer-generated imagery in contemporary culture. The basic principles of design and animation will be covered that have been used by professionals from the days of Bugs Bunny and Mickey Mouse up to the modern age of Pixar and DreamWorks.

## **HS20101 Intro to Building and Engines**

0.5 credit

Standard Challenge

Grade: 10, 11, 12

Description: This course provides an introduction to the Automotive Technology, Building Trades and Outdoor Power Equipment programs. Students will learn basic automotive skills such as: replacing windshield wipers, drive belts, various lights, checking fuses, changing a spare tire and other skills which every automobile driver should know. They will also be exposed to small air-cooled engines and various hand tools. In the Building trades they will explore basic skills using hand tools, electrical by wiring a light and receptacle, and carpentry by building a wooden project. Skills learned in this course will help the student with basic knowledge in the future for their vehicles and homes.

## **HS12001 Intro to Business**

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: This introductory course in the area of business, computers and information technology gives a broad overview of the areas of study in these fields. Students will participate in “hands-on” learning experiences in the career clusters of Business, Management & Administration, Information Technology and Technology fields. Students will connect the skills they need for their future, thereby placing them on a pathway to success.

## **HS10001 Intro to Computer & Information Technology**

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: This introductory course will highlight the skills necessary to manage the hardware and software components of a computer system. Students will learn the foundations of computer programming, networking, and components of graphic design. This course will provide students with basic knowledge to continue on the Computer and Information Technology Pathway.

## **HS18001 Intro to Conservation and the Environment**

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: This introductory course is designed for students who have an interest in the natural environment and the science and mathematics that accompany its study. Students will participate in many and varied hands on and minds on activities that focus on how different professionals in this field go about their work. In doing so, students will develop and hone their problem-solving skills, their critical literacy skills, and their communication skills in creative ways. Finally, students will learn about the policies and laws that affect how humans interact with the natural world. Areas of study will include: diversity, systems thinking, and sustainability/human/environment interactions.

**HS19005 Intro to Education**

0.5 credit

Standard Challenge

Grades: 10, 11,12

Description: This course offers students an opportunity to explore career pathways in education (e.g. primary, secondary, special education). Students will explore learning theories and instructional techniques as well as investigate several current topics like educational technology, creating effective learning environments, and student safety and security. They will exercise professional standards of behavior and participate in field observations across the district.

**HS01028 Intro to Journalism**

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: This course includes an overview of the field of journalism and mass communication. Students learn to be consumers of media, to understand news gathering and production and will explore the role media in the communications industry in society. This course includes instruction in basic news writing, reporting, editing, and discussion of legal and ethical issues.

**HS14001 Intro to Medical Sciences**

0.5 credit

Standard Challenge

Grades: 10

Description: This course is required for students to enter the two-year CTE Exercise Science and Sports Medicine program. Students considering a career in health care are also encouraged to take this course. Content includes health care career exploration, ethical/legal responsibilities of the health care professional and infection control practices, body systems, and medical terminology. "Hands-on" activities include handwashing, measuring vital signs, role-play scenarios and group project work.

## **HS05229 Intro to Printmaking**

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: This course will introduce students to the production of multiple images from a single design. Basic elements of art and principles of design will be stressed within printed compositions. Class activities are project based, giving students an opportunity to explore creativity and art fundamentals while learning technical skills in printmaking. This course is appropriate for both the artist and non-artist.

## **HS05001 Intro to Theatre**

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: This performance-based, project-oriented course offers students the opportunity to explore all aspects of the performing arts. This introductory course is designed to familiarize students with acting, improvisation and children's theatre-just to name a few. Students will experience theatre arts instruction designed to stimulate problem solving, creative thinking and communication skills. This course is created for all students who wish to become involved in the theatre arts curriculum.

## **HS05224 Intro to Visual Art I**

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: Intro to Visual Art I is designed as a preparatory course for the study of both fine and graphic arts. It provides a strong background in the basics of two-dimensional design, drawing and printmaking. This course is a requirement for the student who wishes to continue in the Visual Art Pathway in the high school.

## **HS05225 Intro to Visual Art II**

0.5 credit

Standard Challenge

Grades: 10, 11, 12

### **Prerequisites: Intro to Visual Art I**

Description: Intro to Visual Art II is designed as a preparatory course for the study of both fine and graphic arts. It provides a strong background in the basics of two-dimensional drawing, painting, and sculpture. This course is a requirement for the student who wishes to continue in the Visual Art Pathway in the high school.

## HS22009 Junior Seminar

0.5 credit

P/NC

Grade: 11

Description: This course is designed to provide students an opportunity to work alongside faculty and career counselors to develop individual opportunities to study areas of potential post-secondary education and career interests outside of the school context. Units of study may include career building and exploration, collaboration and community building and developing soft skills. Students will produce and present a culminating project that outlines a plan describing post-secondary education and career interests and goals, how to meet those goals, as well as a plan for developing and following through on external experiences related to those specific individual career goals.

### PDE Industry Credentials:

- Interview Skills – CareerSafe

## HS01029 Leadership in Schools and Community

1 credit

Standard Challenge

Grades: 11, 12

Description: The purpose of this course is to strengthen student character and leadership assets by immersing them in opportunities to reflect on their values, attributes, strengths, and weaknesses. They will also investigate school and community related issues and explore topics related to diversity, multiculturalism, and empathy.

## HS12008 Marketing

1 credit

College and Career Ready

Grades: 10, 11, 12

Description: Marketing is for students who are interested in exploring how products are developed, produced, advertised, promoted, and distributed. An emphasis will be placed on marketing in the areas of sports and entertainment, tourism and hospitality, and food service. Other topics will include communication, interpersonal, leadership and technology skills as well as career development strategies.

[This course may be eligible for Dual Enrollment credit.](#)

## HS05106 Music Appreciation

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: Student will be given a comprehensive background in musical styles, instruments, genres, history, notation, singing and listening. The student will be assessed through class participation, assignments and projects and periodic testing.

### **HS05103 Music Theory**

1 credit

College & Career Ready Challenge

Grades: 10, 11, 12

Description: This course is recommended for the student who plans to study music. Students will be required to sing tonal patterns using solfege and do both rhythmic and melodic dictation. They will be required to read treble and bass clef as well as analyze music using roman numeral analysis and figured bass. They will receive comprehensive background in scales, keys, meter, rhythm, intervals, notation, melody, harmony, chord structure and transposition.

### **HS05005 Musical Theatre I**

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: Designed for singers who want to act and actors who want to sing, the Musical Theatre course will include areas of study in scene and song performance, direction and movement/choreography. A performance-based class; students will have the opportunity to experience group and solo presentations of significant plays of American Musical Theatre.

### **HS05006 Musical Theatre II**

0.5 credit

College & Career Ready Challenge

Grades: 10, 11, 12

#### **Prerequisites: Musical Theatre I**

Description: This is a continuation of Musical Theatre I. Students who have taken Musical Theatre I may sign up for this course. This course will go further in depth into Musical Theatre performing. Students will be required to study musical theatre history as well as prepare and perform musical theatre songs in group and individual settings. This class is for those students seriously interested in performance and music.

### **HS20106 Outdoor Power Equipment Tech I**

2 Credits

Honors Challenge

Grades: 10, 11

Description: Students will learn basic safety and hands-on skills needed to work in a small engine repair facility including: general theories of engine operation unique to the outdoor power equipment (OPE) industry; theory and operation of different engine support systems found on modern small gasoline engines; general maintenance and troubleshooting of engine support systems found on small gasoline engines; complete disassembly, inspection, repair and reassembly of small gasoline engines found in the OPE industry; different equipment and applications that use small engines; safe operation of OPE and general-non engine related maintenance involved with equipment in the OPE industry; career opportunities, qualifications and certifications found in the OPE industry.

## **HS20107 Outdoor Power Equipment Tech II**

2 Credits

Honors Challenge

Grades: 11, 12

Description: Students will learn basic safety and hands-on skills needed to work in a small engine repair facility including: general theories of operating systems unique to Powersports vehicles and basic maintenance; general theories of electrical systems found on Powersports vehicles; complete disassembly, inspection, repair, and reassembly of modern modular construction powertrain assemblies; principles of operations key to high performance, compact engines/transmission assemblies unique to the Powersports industry; theory, diagnostic and service procedures used in systems unique to the Powersports industry.

## **HS05214 Photography I**

1 credit

Standard Challenge

Grades: 10, 11, 12

**Prerequisites: Intro to Visual Art I**

Description: This course will introduce students to the basic principles and applications of digital photography as a medium, a tool for visual problem solving, and an important part of today's digital needs. Topics covered include capturing images manually and programmed with a digital SLR; compositional and lighting techniques; and history, aesthetics, and career information. This course will also familiarize the students with Adobe Photoshop and its relationship with digital photography. Topics covered include digital darkroom techniques; image correction and manipulation; layers, filters, and selections; and storage, scanning and printing of images. Students are financially responsible for any school provided camera loss or damage from abuse.

## **HS05215 Photography II**

1 credit

College and Career Ready Challenge

Grades: 10, 11, 12

**Prerequisites: Photography I**

Description: All facets of black and white photography will be explored: shooting (portrait, studio, advertising, sports, candid and still life), developing and various printing techniques. A research paper and portfolio are required. Basic knowledge of a 35mm camera is helpful. Each student can use his/her own 35mm camera. Arrangements will be made for students who do not own their own camera. Students are financially responsible for camera loss or damage from abuse.

**HS05216 Photoshop Basics**

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: This introduction to Adobe Photoshop begins with an overview of the Photoshop digital editing environment and continues with the Photoshop suite of editing tools, tips and techniques. Students will develop fundamental skills including working with photographs, starting with a new document, various selection techniques, layers, introductory blend modes, and adjustment layers.

**HS19008 Principles of Instruction: Literacy & Numeracy**

1 credit

Standard Challenge

Grades: 11, 12

**Prerequisites: Intro to Education / Human Growth and Development**

Description: This course is designed to develop competencies related to supporting the learning activities of students that involve literacy, numeracy, and learning theory. During this course students must participate in and document 30 hours of practicum.

## HS00804 Protective Services

Level I – 3 Honors credits

Grade: 10

Level II – 3 Honors credits

Grades: 10, 11

Level III – 3 Honors credits

Grades: 11, 12

Entering this CTE program is a three-year commitment. You can only drop the program after meeting with the principal and your school counselor.

Entering this CTE program is a three-year commitment. You can only drop the program after meeting with the principal and your school counselor. NOTE: Students will be required to complete/obtain: Clearances: PA State Police, Child Abuse and FBI, certain vaccines/immunizations (as required by clinical sites), toxicology screening (urine or blood) to participate in clinical experiences

**Prerequisites: ENTRY TO ADVANCED LEVEL I, II, III REQUIRES PASSING COMPLETION OF THE PRIOR LEVEL**

Must have successfully completed Intro to Medical Sciences and submitted an application to enter Protective Services. Application process may be required to pass from Level I to Level II and/or to pass from Level II to Level III. Space limited.

Description: Students enrolling in the Protective Services CTE, complete competencies and achieve certifications identified as core curriculum taken from three areas: Emergency Medical Services, Fire Protection, and Law Enforcement. The Protective Services CTE prepares individuals with the ability to apply technical knowledge and skills required to perform entry-level duties in Law Enforcement, Firefighting, Emergency Medical Services, and other public safety services. Physical development and self-confidence skills are emphasized due to the nature of the occupation(s). In addition to the application of mathematics, communication, science and physics, students receive training in social and psychological skills, map reading, vehicle and equipment operations, the judicial system, firefighting, handling of hazardous materials incidents, communications, pre-hospital emergency medical care and appropriate emergency assessment, treatment, and communication. This class will provide students with the opportunity to earn both state and national certifications in various areas. The goal is to provide students with as many credentials as possible upon graduation, which will make them both highly trained and employable. This class works closely with all local Fire/EMS/Law enforcement agencies.

## HS15003 / HS15002 Protective Services I

3 credits

Honors Challenge

Grade: 10

Description: Protective Services I is for students interested in a career in Law Enforcement or Criminal Justice. This course provides an opportunity to gain experience about various aspects of work as Police and Corrections Officers, Security Guards, and other related career fields. Among units to be covered are: Criminal law, penal law, drugs, crime, crime scenes and different types of evidence, violations, misdemeanors, felonies, the court system, juvenile justice, trials, and sentencing. Additionally, this course covers due process and the laws of arrest, search, seizure, patrol procedures, ethics, traffic investigations, communications systems, and physical training. Students participate in mock trials, crime scene investigations, accident investigations, crime scene sketching, police reports, educational field trips, and community service projects. The curriculum is presented through classroom instruction, computer-based learning, and hands-on related activities with many guest speakers, demonstrations, field trips, and opportunities to experience the field of law enforcement.

## **HS15005 / HS15004 Protective Services II**

3 credits

Honors Challenge

Grades: 10, 11

Description: Protective Services II prepares students to apply technical knowledge and skills required to perform entry-level duties in Emergency Medical Services (EMS) and other safety services. This program stresses the techniques, methods, and procedures peculiar to the areas of emergency and disaster situations. Physical development and self-confidence skills are emphasized due to the nature of the specific occupation(s). Students receive training in social and psychological skills, map reading, and equipment operations. Protective Services II will include the following topics: universal precautions, medical and anatomical terms, appropriate care for patients based on their age, pharmacology in EMS, scene safety and immediate life threats, recognize and manage life threats for a medical or traumatic emergency, and provide patient care for cardiac arrest victims. This course is a combination of both classroom and hands-on instruction. Our partnership with the Pike County Training Center allows our students to perform these skills in a training environment that mirrors real world situations (ex. Vehicle Crashes, Collapses/etc.) Students will have the opportunity to take their Pennsylvania EMS-B certification.

## **HS15007 / HS15006 Protective Services III**

3 credits

Honors Challenge

Grades: 11, 12

Description: Firefighting requires discipline and attention to academic and professional standards to successfully fight live fires, address hazardous-materials (HAZMAT) incidents, and conduct search-and-rescue operations. Students will become familiar with the procedures, equipment, and technologies used by fire departments. This course challenges students academically, mentally, and physically and meets the standards leading to the opportunity to obtain a Firefighter I certification. This course is a combination of both classroom and “Hands on” instruction. Our partnership with the Pike County Training Center allows our students to perform these skills in a training environment that mirrors real world situations The Fire Year is different than all other years, in that students must pass each module to continue. Every student must pass each Fire MOD to move to the next MOD.

## **HS21005 Residential Architecture**

1 credit

College & Career Ready Challenge

Grades: 10, 11, 12

Description: In this course, students will be introduced to the world of architecture, typical home construction, and architectural computer aided design techniques. Students are given the task to creatively design a functional, yet aesthetic home meeting class criteria and guidelines. They are asked to produce a floor plan, elevation plan, scaled model, and various presentations such as a virtual walkthrough. Topics of study include the history of architecture, interior home layout, structural concerns, site considerations, cost factors, architectural styles, human factors, architectural computer aided design techniques, and model making.

## HS21007 Robotics

1 credit

College & Career Ready Challenge

Grades: 10, 11, 12

Description: In this course, students will be introduced to the world of robotics and automation. Students will work to assemble, program, and operate robots to test their effectiveness in competing assigned tasks. Topics of study will include history of robots, the role of robotics in the modern world, ethical considerations in robotics, automation, programming assembly, troubleshooting, equipment safety, design, and prototype testing. Additionally, students will work towards the design, construction, programming, and testing of their own robots.

## HS22010 Senior Seminar

0.5 credit

P/NC

Grade: 12

Description: This course is designed to provide hands and minds on experiences in financial literacy for all students. Areas of study in Senior Seminar include financing post-secondary education, income, employment, and taxation, budgeting and banking, credit cards vs debit cards, insurance, making large purchases, financing housing, and investing for the future. In addition to the financial literacy aspect of Senior Seminar, each senior will also present a culminating project that reflects progress and any changes in the plan they have developed along with faculty and career counselors in the Junior Seminar. This plan includes a reflection on their high school career, a summary of intentionally planned career exploration experiences, and an outline of post-high school career/education plans.

### **PDE Industry Credentials:**

- Critical Thinking – CareerSafe
- Personal Financial Management - CareerSafe

## HS22008 Sophomore Seminar

0.5 credit

P/NC

Grade: 10

Description: This course is designed to engage students in an extensive problem-solving experience. Whether it be service-oriented, entrepreneurial, or scientific, the problem to solve is chosen by the student. This course includes technological applications, career development, and an internet safety and security discussion. The work produced by students will be uploaded to the student's career portfolio, which will serve as a repository that the student may use with future employers/post-secondary education providers to showcase their high school accomplishments and career preparation activities.

### **PDE Industry Credentials:**

- Communication Skills – CareerSafe
- Time Management - CareerSafe

## HS24008 Spanish for Human Services

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: This course is taught with an emphasis on communicating in Spanish while responding to authentic, real-world circumstances. The course will introduce basic concepts of communication in Spanish, introduce healthcare-related vocabulary in the target language, and focus on thematic units centered around responding to emergency situations. Topics included in the course are as follows: gathering basic information, assessing, and responding to emergency situations, exploring the legal requirements associated with medical translation, and identifying the diversity and unique multiculturalism of people with a Hispanic background.

## HS24010 Spanish I

1 credit

College & Career Ready Challenge

Grades: 10, 11, 12

Description: Spanish I is designed to develop a basic knowledge of the Spanish language and cultures through work in the four language skills of listening, speaking, reading, and writing. Recommended for all 9-12 grade students with average or better grades in English.

## HS24011 Spanish II

1 credit

College & Career Ready Challenge

Grades: 10, 11, 12

**Prerequisite: Passing grade in Spanish I is required**

Description: Spanish II is a continuation of the first level course. It is designed for those students who have successfully completed one level of Spanish studies. The student's knowledge of the language and culture will be enhanced through work in the four skill areas of listening, speaking, reading, and writing.

## HS24012 Spanish III

1 credit

Honors Challenge

Grades: 10, 11, 12

**Prerequisite: A passing grade in Spanish II is required**

Description: This honors level course is designed for those students who have completed Spanish II. Spanish III is a continuation of the second level work with the aim of achieving fundamental competence in the four language skills, enabling the student to compete successfully in collegiate study. Students are expected to communicate in the target language.

### **HS14008 Sports Nutrition**

0.5 credit

Standard Challenge

Grades: 11, 12

Description: We will be covering macro and micronutrients, daily caloric requirements, hydration, hydration illnesses, eating disorders, and ergogenic aids.

### **HS22004 Student Facilitators – Performing Arts**

1 credit

Standard Challenge

Grades: 11, 12

Description: This 2<sup>nd</sup> semester course is designed for students who are interested in developing interpersonal skills working directly with other students. Group and individual projects in the performing arts will be used as a focus for assisting others in the development of social and artistic skills. This course is recommended for students considering careers in teaching, counseling, or other related fields. Students will serve as “student teachers” for the class and will be required to work on lesson plans, grading and journals.

### **HS22006 Student Facilitators – Physical Education**

1 credit

Standard Challenge

Grades: 11, 12

Description: This course is designed for students who are interested in developing interpersonal skills working directly with other students. Activities in physical education will be used as a focus for assisting others in the development of social and physical skills. This course is recommended for students considering careers in teaching, counseling, physical therapy, occupational therapy, or other related fields. Students will serve as “student teachers” for the class and will be required to work on lesson plans and journals.

## **HS05008 Stunts and Action on Stage**

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: In this hands-on course, students will explore and learn physical theatre, tumbling, and stunts. Through scene work, students will develop necessary acting skills in order to create realistic fight scenes. Utilizing these strategies students will gain self-discipline, body control/strength, and improvisational skills.

## **HS00907 Technical Theatre Act I**

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: This half credit course is designed to give a broad understanding of the different jobs, skills and tasks that make up Technical Theatre. Students will study scenic design, costumes design, light and sound design, prop design as well as what jobs are in each area. They will use their creative side to design and build model sets, props and costumes along with possible real life design and build experiences. Students will use crafting tools, glue, paint, markers, technology, and many other supplies for many project-based assessments. They will learn vocabulary and terms used in the industry. This course is designed for those interested in theatre or technical theatre.

## **HS05401 Video Production I**

1 credit

Standard Challenge

Grades: 10, 11

Description: Introduction to the techniques of using audio, video cameras, television lighting and digital video editing. This course would encompass the WHS news studio for news stories daily with emphasis on television scriptwriting, effective camera, and final story completion in editing and ready on-air stories.

## **HS12012 Web Design and Development**

0.5 credit

Standard Challenge

Grades: 10, 11, 12

Description: This course provides an introduction to web technologies. An overview of web page design and the World Wide Web is provided as students are introduced to web page authoring, web design, and content development. Elements of graphic design, programming languages, and functions of websites are explored. Research, organization, and presentation skills are essential components of this course. This course is project-based with a focus on authentic tasks.