

WEST PERRY HIGH SCHOOL

COURSE SELECTION GUIDE

2024-2025

Purpose

The purpose of this planning guide is to provide basic information and guidance about the educational offerings available for the 2024-2025 school year at West Perry High School along with essential information to ensure our students are matriculating their way through all graduation requirements, including Keystone Exams, the graduation project and Chapter 339 which focuses on career exploration experiences.

In addition to preparing students for Keystone Exams, the primary goal of our curriculum is to provide each student with a solid academic program that opens a variety of options beyond high school. The West Perry School District provides a diverse and comprehensive list of courses to prepare students for academic proficiency, challenging scholastic investigation, the exploration of personal interests, and rewarding careers. Both parents and students need to carefully review this planning guide and discuss all options before selecting courses. We encourage each student to make the most of the outstanding opportunities afforded by this school district and to take courses that best challenge abilities while keeping career options open.

Because the course selection process can be very complex, this booklet is just one resource used to select the best program of studies. Please take advantage of all available resources, such as our guidance counselors, teachers, and administrators. A decision about course selection should be reached in collaboration with the student, the parents, and the school. Choosing a pattern of courses that is challenging and worthwhile will promote personal satisfaction and permit students to achieve their short-term and long-term goals.

West Perry High School has an excellent educational program and a very knowledgeable and supportive staff. I challenge each student to make optimum use of these resources to graduate with the best possible educational background.

West Perry High School

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Principal

Mr. Christopher Kasian

Assistant Principal

Mr. Clark McCready

Dean of Students

Mr. TJ Quaker

Athletic Director

Mr. Ryan Anderson

School Counselor

Mrs. Heather Bell

School Counselor

Ms. Tracy Commins

School Counselor

Mrs. Mandy Zeigler

Guidance Clerk

Mrs. Cynthia Barber

GENERAL INFORMATION

In planning a program, students should carefully consider the following information:

A. Schedule

West Perry High School operates on an eight period day: seven academic and one resource (Flex Time). Students schedule courses within an academic day, with one period used for a resource period (study hall) and clubs. The academic year consists of two semesters, Fall and Spring, with students selecting courses for each semester. These courses may be semester courses which meet every day for a semester (90 days), or yearlong courses (180 days). At the end of four years, students must accumulate a minimum of 25 credits for graduation.

CREDITS: Semester Course = 0.5 credits Yearlong Course = 1.0 credits

B. Exemption from Instruction:

A student may be excused from topics of instruction for religious reasons. A letter from the parent requesting exemption is required, and the student will be assigned alternative work that must be completed.

C. Graduation Requirements:

English	4.0
Science	3.0
Mathematics	3.0
Math and/or Science Elective (not required for CPACTC Students)	1.0
Social Studies	4.0
Arts/Humanities	2.0
Wellness and Fitness	1.0
Technology/Chapter 339 Course	0.5
Electives	6.5 (7.5 for CPACTC Students)
Total	25.0

The Keystone Exam requirements for graduation shall be defined in Chapter 4 of the Pennsylvania Code.

A graduation project must be approved and completed in order to graduate. This will be completed as part of a student's portfolio which meets the State's mandated Chapter 339 Plan. Chapter 339 is a Pennsylvania state mandate that requires all school districts in the Commonwealth to have a comprehensive guidance plan encompassing Pre-Kindergarten to Grade 12. This plan must address the four Career Education & Work Standards. In order to graduate and earn a diploma, students must exhibit an understanding of these four areas through various career exploration activities by the end of their 11th grade year. Through these activities, students must produce eight pieces of evidence demonstrating their awareness and comprehension of the standards. Many of these standards are addressed as students complete online activities through SmartFutures. The standards are as follows:

- (1) Career Awareness and Preparation
- (2) Career Acquisition
- (3) Career Retention and Advancement
- (4) Entrepreneurship

D. Class Status

In order to progress from one grade to another, students must earn the following credits: 10th grade status .6 credits

11th grade status12 credits

12th grade status.....18 credits

60% is considered a passing grade at West Perry High School. 70% is considered a passing grade at Cumberland Perry Area Vocational Technical Center.

E. NCAA Initial-Eligibility Clearinghouse for College Athletics:

Planning for participation in NCAA Division I or Division II intercollegiate athletics begins in 8th grade with course selection and continues throughout high school. A student-athlete's performance in the classroom throughout high school is essential to be eligible for participation in college. To be eligible, students **MUST** complete the NCAA Clearinghouse's "Core Curriculum Requirements" **AND** meet the minimum GPA and SAT/ACT requirements mandated by the NCAA. West Perry courses that meet the Core Requirements are indicated throughout the course catalog. A complete list of the core curriculum requirements and NCAA registration information is online at www.ncaaclearinghouse.org.

Please note: Students who fail to meet the core curriculum, GPA, and/or SAT/ACT requirements will **NOT** be eligible to participate in NCAA Division I or Division II intercollegiate athletics as freshman. Interested students **MUST** file an application with the clearinghouse during the junior year and **notify his/her school counselor of intent to play**.

F. Makeup of Failures

Required subjects must be repeated if failed. While school counselors will monitor this situation, it is the responsibility of the student to reschedule required courses.

This will require students to drop elective courses and to carry a larger load of major subjects than is desirable. If the schedule permits, a student may schedule failed courses during the following semester/year.

Students may also makeup classes via on-line summer school or correspondence/on-line classes according to District guidelines.

Students are limited to four credits of credit recovery over the course of their high school career.

G. Changes in Schedule

Schedule changes will be made only under the most extenuating circumstances. These include:

- 1) incomplete schedule.
- 2) class previously taken and credit earned.
- 3) academically misplaced.
- 4) failed course needed for graduation.

DROPPING OR CHANGING CLASSES AFTER THE START OF THE ACADEMIC YEAR

After the first week of a semester, students may not drop any subject without a completed Course Change Review Form that includes permission from the parent, the teacher involved, the counselor and the principal. Students may obtain these forms in the Counseling Center. If the request is granted, the record of the dropped course will not appear on the transcript.

Any requests submitted after the five day period will appear on the student's transcript. If the student is passing the course at the time of withdrawal, s/he will receive a "Withdraw Passing" on their transcript. If the student is failing the course at the time of withdraw, they will receive a "Withdraw Failing" on their transcript.

Students are urged to elect a program of studies which they are reasonably sure of being able to handle. Generally, schedules are changed if a student is academically misplaced, needs a course to complete graduation or vocational program requirements, has already earned credit for the course or has an incomplete schedule. Changes will not be made to a student's schedule for the following reasons:

1. Students do not like the class.
2. Students do not like the teacher.
3. The class is held during an inconvenient period.
4. Students do not need the class to meet graduation requirements.
5. Students do not like other students in the class.
6. Students do not like their lunch period.
7. Course will affect athletic eligibility.
8. Student feels GPA will suffer.

H. Selection of Courses

Students are responsible for the selection of courses which fulfill graduation requirements. The guidance counselor is available to help with the selection process. We strongly suggest that students consult their counselors. Teachers will recommend placement for core courses. If a family disagrees with a teacher recommendation, a written request stating the reason for selecting an alternative course must be submitted to the school counselor to be reviewed.

When selecting elective courses, students should select alternate electives in case their first choice is not available. Please note that the district reserves the right to deny the offering of a course or section due to:

1. low student interest.
2. unavailability of a highly qualified teacher.

Additionally, some courses will only be offered on an every-other-year rotating basis.

I. Honors Courses

Honors courses are designed to provide enrichment and depth to courses for academically talented students. Students must expect to meet elevated academic requirements in Honors Courses. Honors Courses often move at an accelerated pace. Honors courses will receive a WEIGHTED GPA of 1.05, meaning students' GPAs reflect an additional 5% over report card grades for these classes. Report cards will not show this additional weighting, only GPAs reflect weighting. Example:

Class Grade	Weighted Factor	Weighted GPA Grade
90%	1.05	$1.05 \times 90\% = 94.5\%$

J. Advanced Placement Courses

- Courses designated as Advanced Placement (AP) will receive a WEIGHTED GPA (Grade Point Average) of 1.10.

Class Grade	Weighted Factor	Weighted GPA
Grade 90%	1.10	$1.10 \times 90\% = 99\%$

- Students who wish to register for the AP Exam must schedule the exam with their counselor by October 1. The College Board sets the exam fees for which students are responsible.

K. Supplemental On-Line Courses

1. Students must be aware that on-line courses require a majority of the work to be completed independently. Therefore, a student's ability to complete the course successfully is dependent upon his/her ability to be personally responsible and to remain on-task with little teacher direction. Learning independently consists of being self-disciplined and organized to complete assignments on the timeline prescribed by the on-line instructor.
2. A student is eligible to take on-line courses only if a course is not available or accessible in the West Perry High School course offerings or if scheduling the course interferes with the graduation plan.
3. All credits earned from on-line courses will be credited toward West Perry School District graduation requirements.

4. Students must follow the District Internet Policy and abide by a written code-of-conduct for on-line instruction.
5. Students who have withdrawn from on-line courses and are interested in enrolling in future courses will have their cases reviewed by administrative.
6. A student who does not complete their online course(s) may be required to reimburse the school district for the cost of the course.
7. Students who require online courses count toward NCAA eligibility must consult with their School Counselor prior to registering.

Cumberland Perry Area Career and Technical Center (CPACTC)

Starting in 10th grade, students may attend CPACTC. Beginning in the 9th grade, students may apply for admission to a vocational technical program at CPACTC by completing the online application during November of the preceding year. Students attend CPACTC in the morning and return to West Perry in the afternoon for required academic subjects. The application process begins in October of each academic year and is open to 9th and 10th grade students to attend the following school year.

Applications are available online at www.cpatech.org.

Scheduling and Graduation Information:

1. Students may earn four (4) credits each year for successful coursework completion at CPACTC. If a student takes a social studies course at CPACTC, then s/he will receive one (1) credit for social studies and three (3) credits for the vocational program. Students may earn a maximum of three (3) credits at West Perry in the afternoon, totaling seven (7) credits per year.
2. Students must pass all required courses on their schedule each year in order to meet graduation requirements. With limited time at West Perry High School, it is difficult to make up failed courses while attending CPACTC.
3. Failing the vocational program class results in removal from the program for the following year. Please note 70% is considered passing at CPACTC.

Programs Offered

CONSTRUCTION AND MAINTENANCE

Carpentry
Electrical Construction and Maintenance
Heating/Ventilation/Air Conditioning (HVAC)
Horticulture/Landscaping
Masonry

MANUFACTURING

Advanced Manufacturing Technology
Automation, Robotics & Electronics
Welding Technology

HUMAN SERVICES AND HOSPITALITY

Cosmetology
Criminal Justice
Culinary Arts
Early Childhood Education

ARTS & TECHNOLOGY

Advertising Art & Design
Computer Networking
Computer Programming

HEALTH SCIENCES

Dental Assisting
Healthcare Pathways
Emerging Health Professionals

TRANSPORTATION & LOGISTICS

Auto Collision Technology
Automotive Technology
Diesel Technology
Logistics & Warehouse Management

*Cumberland Perry also offers a DIVERSIFIED OCCUPATIONS Program. This is a work-based learning program for students not enrolled in a traditional Career and Technical Education Program. Please refer to the description at the end of this booklet for more information.

Course descriptions from CTC are at the end of this guide (Appendix A).

Scheduling Options for Seniors

Uncredited Internship- This program allows students to leave the building for an extended job shadowing experience or internship. The purpose is to explore career opportunities. It can be scheduled up to four periods of the day. Placement sites can vary each quarter.

Middle School Student Helper (Partners II)- Students can be approved to help a middle school teacher for up to two periods a day. Paperwork for semester 1 is due by August 1.

Flexible Release- Flexible release can be scheduled for half the day. Students leave to go to their job. They do NOT earn any credit for this program and must provide proof of employment. They must be sure to have enough credits to graduate prior to scheduling this option.

Citizen's Police Academy- This free, 8 week program allows students to learn about roles within the state police from canine handlers to criminal investigators/forensics to crash reconstruction specialists and more. (Semester 2)

Holy Spirit Career Exploration Program- Two students are selected by interview process to attend this program. Applications are available in the Counseling Center and an interview with hospital staff is required. The program lasts for the first marking period and meets daily from 7:30-9:30 at Holy Spirit. Students rotate through hospital departments to explore health careers.

Project Steno- This free course introduces students to the basics of using a Steno Machine and preparing for a career in court reporting or closed captioning. High demand, high pay jobs can be obtained in this career field.

Pennian Bank- Two students are selected by interview process to work in the West Perry branch of the bank.

EMR Training- This training allows students to be certified to ride on ambulance calls. This is a developing program, but details should be available closer to the end of the year. Fingers crossed!

ACE Mentoring Program- This is an evening program that meets at the Vo-Tech in Mechanicsburg once a week in the evening. It brings together a group of dedicated architects, engineers and contractors eager to help students better understand the rewarding opportunities available through careers in the building industry. There are often visits to building sites, offices, and other opportunities for hands-on experience. Visit www.acementor.org for more info.

Dual Enrollment Programs- HACC, Central Penn, Messiah, Harrisburg University, PA College of Health Science, and Shippensburg University offer dual enrollment programs. For a discounted rate, high school students can take college classes. This program is flexible—

attend for full day or half day. The first step to choose this option is completing the intent to dual enroll form.

Harrisburg University Enrichment Programs- Students can take certification courses to become an IT Specialist, Medical Assistant, or Pharmacy Technician. These programs are online, often FREE, and also have hands-on lab kits for student simulations. Each program takes 6-9 months to complete and ends in an internship in a medical facility.

NuPaths- This is an opportunity for students interested in the computer field and will allow students to earn certain IT certifications AND college credits prior to graduation. The cohort will meet at Greenwood throughout the year.

CPARC Internship-CPARC is an organization that helps adults with disabilities. They are offering semester long paid internships. Students will help adults with learning various skills like cooking and budgeting for shopping.

Pre-Manufacturing Apprenticeship Program- Manufacturing is a high demand industry. This program is a pipeline into an apprenticeship in manufacturing after graduation which can lead to a career in engineering, design, process, and manufacturing. This program includes OSHA certification, blueprint reading, shop projects and more.

Earning College Credits in high school

	AP Courses	Dual Enrollment	College In the High School
Definition	Created by the College Board, these courses have a standard curriculum that must be followed by AP teachers. Each AP course at West Perry has a syllabi that must be approved by the College Board. AP courses allow students to earn college credit before graduating if students earn a passing score on the AP exam. The minimum score to earn a college credit is determined by individual post-secondary institutions.	Dual Enrollment is a process in which a high school student enrolls in a course at another institution and receives both college and high school credit for the course.	CHS is a form of dual enrollment offered and taught by WPHS teachers.
Mode of Instruction	WPHS both in person and online	In-person or online through various partners	In-person
Grade Levels	11, 12	11, 12	11, 12
Cost	Families pay half of the AP Exam fee, approximately \$50.00	Varies by Institution (approximately \$200 per credit)	Varies by Institution (approximately \$100 per credit)
Grading Practices	Weighted 1.10 in both GPA and rank	Core courses are weighted 1.05 in GPA only, not rank	Weighting of each course is defined in the WPHS Course Catalog and goes in both GPA and rank
Offerings	AP American Government, AP Language & Composition, AP Literature & Composition, AP Psychology, AP Calculus AB, AP Computer Science A, AP Chemistry @ Susquenita	Harrisburg Area Community College, Shippensburg University, Messiah University, Central Penn College, Harrisburg University, Lackawanna College, PA College of Health Sciences	Harrisburg Area Community College (Biology and Ag Business), Lackawanna College (please contact counselor for complete list of available courses)
Prerequisite	See course descriptions within this course guide, junior or senior status	Acceptance into college courses at post-secondary institution (including placement tests if required), junior or senior status	Contact counselor for the complete of eligible courses and pre-requisites

The cost for dual enrollment and CHS courses will be paid directly to the college by the students after registration.

Intent to Dual Enroll

Congratulations on taking the first step to participate in dual enrollment. All students must submit this form to their school counselor for approval. Once approved, students will follow the process for the particular post-secondary institution they hope to attend. West Perry has agreements with HACC, Shippensburg, Messiah, Central Penn, PA College of Health Sciences, Lackawanna College and Harrisburg University. It will be important to work with your high school counselor during class registration to finalize your schedule, especially if you plan to take some classes at West Perry and some classes at another institution. Most seniors need US Government and an English in order to meet graduation requirements. HACC's equivalents for these courses are ENG 101 and PSPL 101; other schools have different equivalents. Please talk to your school counselor before scheduling a different Social Studies or English course. Students must be sure they are meeting their graduation requirements.

Guidelines to Acknowledge:

· After a review of the student's academic records, the counselor and principal will certify the recommendations listed below. Students not meeting these recommendations will be considered on a case by case basis.

Students must have earned junior or senior status.

Students must have met the dual enrollment requirements (including placement tests if applicable) of the post-secondary institution.

· To earn credit and be reflected on a West Perry transcript, courses at must not be remedial in nature. A grade of a D or higher must be obtained. Parents should ask students for grade updates through the semester. West Perry is not able to monitor dual enrollment grades for courses in progress. If students earn a D in a course, there is no guarantee this course will transfer to another post-secondary institution.

· A copy of the student's schedule must be submitted to the school counselor for review prior to each semester. This will ensure any classes a student is taking will meet West Perry's graduation requirements.

· A copy of grades earned must be submitted to the school counselor at the end of the semester.

· Each course will have a credit based on a scale of three (3) post-secondary credits is equal to one (1) credit at West Perry. Courses that count towards Math, Science, English, Social Studies and Foreign Language will be weighted at 1.05. Grades will be calculated into GPA but not counted towards class rank.

· If the post-secondary institution uses a letter grade system, grades are transferred in to WPHS as follows: A=95, B=85, C=75, D=65.

· West Perry will not be responsible for any fiscal obligations. Students may be dropped from classes if tuition is not paid on time.

· In order for a student to be considered enrolled as a full-time student, he or she must be enrolled in at least 4 classes per semester between West Perry and the post-secondary institution or 12 credits at the post-secondary institution. This assumes the classes are a standard 3 credits. This may be important for extra-curricular and athletic eligibility. Athletes must ensure PIAA eligibility and weekly grade submissions may be required.

· All students should follow the WPHS Daily Announcements online, Counseling Center monthly newsletter, Mustang Minute, and check your WP email to keep up with important announcements for seniors.

I have received the handouts entitled “Intent to Dual Enroll” and “West Perry Technology Department Support for Dual Enrollment Students” and have reviewed them with my student. Any questions can be directed to Mandy Zeigler, School Counselor, at mzeigler@westperry.org. Once this form is returned to the student, he or she may apply.

Parent Signature: _____ Date: _____

Student Signature: _____ Date: _____

This student is pursuing dual enrollment full time or part time (circle one) with _____.

School Counselor Signature : _____ Approval: YES NO

Principal Signature: _____ Approval: YES NO



AGRICULTURAL EDUCATION



<i>Agriculture Education Elective Rotation</i>				
Course Name & Number	Credit Value	2024-2025	2025-2026	2026-2027
Agriscience and Technology (7300)	1	X	X	X
Large Animal Sci & Nutrition (7310)	1	X	X	X
Pet & Small Animal Management (7320)	0.5	X	X	X
Veterinary Science & Technology (7325)	1	X		X
Plant & Soil Science (7330)	1		X	
Wildlife, Fishery, and Forestry Sci (7335)	1	X	X	X
Small Gas Engines (7350)	0.5	X	X	X
Diversified Agricultural Mech (7355)	1	X	X	X
Advanced Agricultural Mech (7410)	0.5	X	X	X

7300 Agriscience/Tech

Grades Offered: 9,10,11,12

Credits: 1

Full Year

Prerequisite: None

NCAA Clearing House:

No

This course is designed for beginning agricultural education students and is the pre-requisite for all the other courses taught in the Agricultural Education program. Topics will include Animal Science, Plant Science, Environmental Science, Agricultural Mechanics, and Leadership. In addition students will also learn about modern agricultural practices and how technology has changed the agricultural industry. Through this course students will engage in science related activities approximately 60% of the time and work in the agricultural mechanics shop the other 40% of the time. By participating in this course students will have the opportunity to participate in FFA activities. During class they will learn how to begin an SAE project and meet the requirements to earn the FFA Greenhand Degree.

7310 Lg Animal Sci/Nutr

Grades Offered: 10,11,12

Credits: 1

Full Year

Prerequisite: Agriscience and Technology

NCAA Clearing House:

No

This course is designed for those students who wish to have an introduction to animal physiology and biology as they relate to the practical application of science, selection, and evaluation of animals, management practices, quality milk production, and alternative animal agriculture. FFA career development activities (livestock and dairy selection, meats and dairy food judging) will enhance this

course. Students intending to seek employment on dairy or livestock production farms or in other phases of the livestock industry will especially benefit from this course. Students will identify the relationships among proper nutrition, balanced rations, management practices, livestock diseases, and livestock performances. If a student enrolls at Delaware Valley University post high school graduation they will earn 3 credits and will not have to take AS1000 if they completed this course with a B average or better.

7320 Pet/Sm Animal Mgt

Grades Offered: 9,10,11,12

Credits: 0.5

Semester

Prerequisite: None

NCAA Clearing House:
No

An introductory course in small animal care and management, this course will provide students with an understanding of several small animal species, including dogs, poultry, rabbits, and other small rodents. Students will learn how to properly manage and care for these species, as well as understand their anatomy and physiology. This course will also provide information about animal welfare issues, nutrition, and careers as they relate to small and companion animals.

7325 Vet Science/Tech

Grades Offered: 11,12

Credits: 1

Full Year

Prerequisite: Agri-Science & Technology and Large Animal Science

NCAA Clearing House:
No

This course will introduce students to the equipment, practices and procedures encountered in a post-high school vet tech program and career. Units of study will include safety in a veterinarian office, veterinarian terminology, animal physiology and biology, animal disease, lab procedures, clinical procedures, and hospital procedures. Animal welfare issues will be addressed in this course along with the proper care and handling of small and large animals.

7330 Plant/Soil Sci

Grades Offered: 10,11,12

Credits: 1

Full Year

Prerequisite: Agriscience and Technology

NCAA Clearing House:
No

Students enrolled in this course will learn soil types and properties, soil fertility management, lawn establishment and maintenance methods, basic landscaping, and cultivation of agronomic crops produced in central Pennsylvania. Integrated Pest Management (IPM) practices and procedures will be addressed in this course. If a student enrolls at Delaware Valley University they will earn 2 credits and will not have to take HT1101 if they complete this course with a B average or better.

7335 Wildlife Fishery & Forestry Science

Grades Offered: 10,11,12

Credits: 1

Full Year

Prerequisite: Agriscience and Technology

NCAA Clearing House:
No

This course is designed to allow students to explore career opportunities in the field and acquire applied knowledge of natural resource management. Forest and woodlot management will be studied, including forest ID, harvesting methods, and management of the forests for productive and recreational use. Students will also study various forms of energy including wind, solar, and Bio-fuels. In addition

students will learn about fish and wildlife species native to Pennsylvania. This course will focus on the ecology, biology, and habitat of these species. Students are encouraged to prepare for and compete in the county Envirothon to enhance their learning.

7350 Sm Gas Engines

Grades Offered: 10,11,12

Credits: 0.5

Semester

Prerequisite: Agriscience and Technology

NCAA Clearing House:

No

This course involves technical training, instruction, and hands-on shop work covering the application of small gasoline engines, and electric regeneration as it applies power systems within agriculture. Students are expected to overhaul or repair a small gasoline engine as part of the shop work and will incur personal expenses for the engine repairs.

7355 Divers. Ag Mech

Grades Offered: 10,11,12

Credits: 1

Full Year

Prerequisite: Agriscience and Technology

NCAA Clearing House:

No

This course will involve the laboratory/shop application of agricultural structure design, construction, and maintenance. This course uses basic problem solving and application of carpentry, electric wiring, stick welding, MIG welding, and plumbing skills will be emphasized. This class will give students skills to construct and maintain equipment.

7380 Agriculture Career Study

Grades Offered: 12

Credits: 1

Full Year

Prerequisite: Agriscience and Technology and Teacher Recommendation

NCAA Clearing House:

No

This course is designed to be the capstone of a student's Agricultural curriculum career. Students will work independently to develop a career opportunity that they will work to create and implement throughout the school year. Opportunities must be approved by an agricultural instructor before students enroll in this course. Students will maintain an out of school supervised career development project for this course. The instructor will supervise the project and the class grade will be assigned by grading of the students' project records and teacher visitation to the project site. Students must take this course and maintain FFA membership. The intent of this course is for students to expand upon their knowledge and experience by being responsible for this practical program.

7410 Advanced Agricultural Mech

Grades Offered: 11,12

Credits: 1

Full Year

Prerequisite: AgriScience and Technology and Diversified Agricultural Mechanics

NCAA Clearing House:

No

This course will involve the laboratory application of agricultural structure design, construction, and maintenance. Practical application of carpentry, electric wiring, masonry, and plumbing skills will be emphasized. Students will hone their skill by picking projects that fit their career path in Agricultural

Mechanics.

7620 Intro Ag Business

Grades Offered: 11,12

Credits: 1

Full Year

Prerequisite: Agriscience and Technology

NCAA Clearing House:

No

Introduction to Agribusiness is a comprehensive overview of the seamless channel that moves agriculture products from the farm to the fork. Basic agricultural economics and marketing theory is enhanced by investigations including risk management, consumer behavior planning business modules and global competition. The course is limited to juniors and seniors that have completed at least one credit of agriculture classes. This is a college in the high school class that offer students 3 credits from HACC of BUSI 101 if the student pays the tuition. Students are encouraged to enroll with Harrisburg Area Community College and pay College in the High School tuition to receive 3 credits from HACC for BUSI 101.

7660 SAE I

Grades Offered: 9,10,11,12

Credits: 1

Full Year

Prerequisite: AgriScience and Technology or Teacher Recommendation

NCAA Clearing House:

No

Students will maintain an out of school (Summer/After School) supervised career development project for this course. The instructor will supervise the project and the class grade will be assigned by grading of the students' project records and teacher visitation to the project site. Students must take this course and maintain FFA membership if they wish to exhibit a project in FFA competition. The intent of this course is for students to expand upon their knowledge and experience by being responsible for this practical program.

7661 SAE II

Grades Offered: 9,10,11,12

Credits: 1

Full Year

Prerequisite: AgriScience and Technology or Teacher Recommendation

NCAA Clearing House:

No

Students will maintain an out of school (Summer/After School) supervised career development project for this course. The instructor will supervise the project and the class grade will be assigned by grading of the students' project records and teacher visitation to the project site. Students must take this course and maintain FFA membership if they wish to exhibit a project in FFA competition. The intent of this course is for students to expand upon their knowledge and experience by being responsible for this practical program.

7662 SAE III

Grades Offered: 9,10,11,12

Credits: 1

Full Year

Prerequisite: AgriScience and Technology or Teacher Recommendation

NCAA Clearing House:

No

Students will maintain an out of school (Summer/After School) supervised career development project for this course. The instructor will supervise the project and the class grade will be assigned by grading of the students' project records and teacher visitation to the project site. Students must take this course and maintain FFA membership if they wish to exhibit a project in FFA competition. The intent of this

course is for students to expand upon their knowledge and experience by being responsible for this practical program.

7663 SAE IV

Grades Offered: 9,10,11,12

Credits: 1

Full Year

Prerequisite: AgriScience and Technology or Teacher Recommendation

NCAA Clearing House:
No

Students will maintain an out of school (Summer/After School) supervised career development project for this course. The instructor will supervise the project and the class grade will be assigned by grading of the students' project records and teacher visitation to the project site. Students must take this course and maintain FFA membership if they wish to exhibit a project in FFA competition. The intent of this course is for students to expand upon their knowledge and experience by being responsible for this practical program.

7680 FFA Leadership I

Grades Offered: 10,11,12

Credits: 1

Prerequisite: AgriScience and Technology

NCAA Clearing House:
No

Students will work to develop and implement the FFA Program of Activities. They will complete assignments which pertain to individual positions including serving as a chapter officer, committee chairperson, or member. Students will also prepare a job resume and cover letter, and prepare a leadership activity for a chapter meeting. Students will continuously work to develop their Supervised Agricultural Experience Program and will submit award applications which relate to their projects. Students will engage in public speaking opportunities including prepared and extemporaneous speaking. Furthermore, students will prepare for and compete in other career development events throughout the year. The intent of this course is for students to engage and expand upon their knowledge and leadership abilities. This course is designed to serve students in their first, second, or third year of the leadership curriculum. Student assessment is based on years of involvement within the curriculum. If students are in their 1st year of the curriculum they should choose FFA Leadership I, in their second year FFA Leadership II, and in their third year FFA Leadership III.

7682 FFA Leadership II

Grades Offered: 10,11,12

Credits: 1

Prerequisite: AgriScience and Technology

NCAA Clearing House:
No

Students will work to develop and implement the FFA Program of Activities. They will complete assignments which pertain to individual positions including serving as a chapter officer, committee chairperson, or member. Students will also prepare a job resume and cover letter, and prepare a leadership activity for a chapter meeting. Students will continuously work to develop their Supervised Agricultural Experience Program and will submit award applications which relate to their projects. Students will engage in public speaking opportunities including prepared and extemporaneous speaking. Furthermore, students will prepare for and compete in other career development events throughout the year. The intent of this course is for students to engage and expand upon their knowledge and leadership abilities. This course is designed to serve students in their first, second, or third year of the leadership curriculum. Student assessment is based on years of involvement within the curriculum. If students are in their 1st year of the curriculum they should choose FFA Leadership I, in their second year FFA Leadership II, and in their third year FFA Leadership III.

7683 FFA Leadership III

Grades Offered: 10,11,12

Credits: 1

Prerequisite: AgriScience and Technology

NCAA Clearing House:

No

Students will work to develop and implement the FFA Program of Activities. They will complete assignments which pertain to individual positions including serving as a chapter officer, committee chairperson, or member. Students will also prepare a job resume and cover letter, and prepare a leadership activity for a chapter meeting. Students will continuously work to develop their Supervised Agricultural Experience Program and will submit award applications which relate to their projects. Students will engage in public speaking opportunities including prepared and extemporaneous speaking. Furthermore, students will prepare for and compete in other career development events throughout the year. The intent of this course is for students to engage and expand upon their knowledge and leadership abilities. This course is designed to serve students in their first, second, or third year of the leadership curriculum. Student assessment is based on years of involvement within the curriculum. If students are in their 1st year of the curriculum they should choose FFA Leadership I, in their second year FFA Leadership II, and in their third year FFA Leadership III.

7684 FFA Leadership IV

Grades Offered: 12

Credits: 1

Prerequisite: AgriScience and Technology

NCAA Clearing House:

No

Students will work to develop and implement the FFA Program of Activities. They will complete assignments which pertain to individual positions including serving as a chapter officer, committee chairperson, or member. Students will also prepare a job resume and cover letter, and prepare a leadership activity for a chapter meeting. Students will continuously work to develop their Supervised Agricultural Experience Program and will submit award applications which relate to their projects. Students will engage in public speaking opportunities including prepared and extemporaneous speaking. Furthermore, students will prepare for and compete in other career development events throughout the year. The intent of this course is for students to engage and expand upon their knowledge and leadership abilities. This course is designed to serve students in their first, second, or third year of the leadership curriculum. Student assessment is based on years of involvement within the curriculum. If students are in their 1st year of the curriculum they should choose FFA Leadership I, in their second year FFA Leadership II, and in their third year FFA Leadership III.



DRIVER EDUCATION



0130 Driver Ed

Grades Offered: 10,11,12

Credits: 0.5

Semester

Prerequisite: None

NCAA Clearing House:

No

This theory course discusses the driver's responsibility with regard to the following topics:

Owning and maintaining an automobile

Pennsylvania Vehicle Code

Developing good driving habits

Map reading

Decision making and controlling the vehicle

Alcohol and drugs

Environmental influences on driving



ENGLISH



Recommended Sequence of Core Courses

<u>Career</u>	<u>Tech School</u>		<u>College</u>
Literature I (1025)	Literature I (1025)	Literature I (1025)	Literature II – Level II (1130)
Literature II - Level I(1120)	Literature II – Level I (1120)	Literature II – Level II (1130)	American Literature – Level II (1230) or American Literature – Level III (1240)
American Literature – Level I (1220)	American Literature – Level I (1220)	American Literature – Level II (1230)	British Literature (1315) – Level II Literature and Composition – Level II(1330)
Career Writing and Readiness (1270)/Elective* or Literature for Life (1320)/Elective*	Career Writing and Readiness (1270)/Elective* or Literature for Life (1320)/Elective*	Literature and Composition – Level II (1330)	AP® Literature (1355) AP® Language (1350)

English Elective Rotation

Course Name & Number	Credit Value	2024-2025	2025-2026
Creative Writing (1260)	0.5	X	X
Intro to Drama (1336)	0.5		X
Journalism I (1338)	0.5	X	X
Digital Audio/Video Production (7260)	0.5	X	X
Science Fiction (1410)	0.5	X	
Mythology (1420)	0.5	X	X
Intro to Film (1460)	0.5	X	X

0911 Literature I RES**Grades Offered:** 9**Credits:** 1

Full Year

Prerequisite: IEP Team Recommendation**NCAA Clearing House:**
No

This course is designed for students requiring small group instruction who do not plan to attend college. The course integrates literature with grammar, writing, and the development of listening and speaking skills. Literary study focuses on elements of fiction and informational texts. Works will include drama, poetry, short stories, and novels. Grammar focuses on sentence structures while writing concentrates on expository modes and the writing process. MLA style will be emphasized.

0912 Literature II RES**Grades Offered:** 10**Credits:** 1

Full Year

Prerequisite: IEP Team Recommendation**NCAA Clearing House:**
No

This course is designed for students requiring small group instruction to provide emphasis on preparing students who will take the Literature Keystone Exam and will address the State English Language Arts Standards. The course will take an in-depth look at literature and informational texts with an emphasis on text-dependent analysis. The course continues to build on foundational skills such as structural elements of literature and informational texts, vocabulary, grammar, and composition. Students will take the Literature Keystone Exam at the end of the course.

0913 English 11 RES**Grades Offered:** 11**Credits:** 1

Full Year

Prerequisite: IEP Team Recommendation**NCAA Clearing House:**
No

This course is designed for students requiring small group instruction to provide a focus on reading, writing and listening. Emphasis is on producing quality products in written communication. It is designed for students who plan to attend a technical or trade school after graduation. Students will read, discuss, and write about a variety of literature.

0914 Literature III RES**Grades Offered:** 12**Credits:** 1

Full Year

Prerequisite: IEP Team Recommendation**NCAA Clearing House:**
No

This course is designed for students requiring small group instruction to focus on literacy skills in all four basic areas: reading, writing, speaking, and listening. Major units include career preparation, drama study, literature study, and debate. Students will complete some formal analysis writing as well as technical writing. This course emphasizes soft skills and productivity skills that are essential in the workplace.

1025 Literature I**Grades Offered:** 9**Credits:** 1

Full Year

Prerequisite: None**NCAA Clearing House:**
Yes

This course is designed to develop and refine skills that will prepare students for the Keystone exams.

The course will take an in-depth look at literature and informational texts with an emphasis on text-dependent analysis. Literary study focuses on elements of fiction and informational texts. Works will include drama, poetry, short stories, and novels. Writing concentrates on the writing process.

1120 Literature II (Level I)

Grades Offered: 10

Credits: 1

Full Year

Prerequisite: Literature I, and/or Teacher Recommendation based upon data review

NCAA Clearing House:
Yes

This course is designed for students who will take the Literature Keystone Exam and will address the State English Language Arts Standards. The course will take an in-depth look at literature and informational texts with an emphasis on text-dependent analysis. The course continues to build on foundational skills such as structural elements of literature and informational texts, vocabulary, grammar, and composition. Students will take the Literature Keystone Exam at the end of the course.

1130 Literature II (Level II)

Grades Offered: 9,10

Credits: 1

Full Year

Prerequisite: Literature I and Teacher Recommendation

NCAA Clearing House:
Yes

This college preparatory course is designed for students who will take the Literature Keystone Exam and will address the State English Language Arts Standards. The course will take an in-depth look at literature and informational texts with an emphasis on text-dependent analysis. The course continues to build on foundational skills such as structural elements of literature and informational texts, vocabulary, grammar, and composition. Students will take the Literature Keystone Exam at the end of the course.

1220 American Literature (Level I)

Grades Offered: 10,11

Credits: 1

Full Year

Prerequisite: 1125 Literature II

NCAA Clearing House:
No

This course focuses on reading, writing and listening. Emphasis is on producing quality products in written communication. It is designed for students who plan to attend a technical or trade school after graduation. Students will read, discuss, and write about a variety of literature.

1230 American Literature (Level II)

Grades Offered: 10,11

Credits: 1

Full Year

Prerequisite: 1130 Literature II (Level II)

NCAA Clearing House:
Yes

Since this course is designed for the college-bound student, it focuses on literature, composition and grammar. The grammar unit consists of improving sentence structure, mechanics, and usage through student writing. In literature, students study the short story, poetry, drama, and novels written by American authors. The drama and novels studied will trace the progression of American literature from pre-colonial times to the post-modern era. A research paper using the approved format is required of all students in order to receive credit for the course.

1240 American Literature (Level III)

Grades Offered: 10,11

Credits: 1

Full Year

Prerequisite: 1130 Literature II (Level II) and teacher recommendation

NCAA Clearing House:
Yes

Designed for the advanced college preparatory student, this course concentrates on an in-depth study of selections from classical literature. Students will study American traditions, attitudes, changes and people through American literature. Vocabulary for the college-bound student, writing of single paragraph and multi-paragraph papers, support of a thesis statement in a research paper, and essay-type tests are emphasized. Oral communication will also be a key component of the course. The drama and novels studied will trace the progression of American literature from pre-colonial times to the post-modern era. A research paper using the approved format is required of all students in order to receive credit for the course. Summer reading will be a required portion of our study.

1260 Creative Writing

Grades Offered: 10,11,12

Credits: 0.5

Semester

Prerequisite: Successful completion of 1 year of English

NCAA Clearing House:
Yes

This course will offer the student the opportunity to experiment with creative expression. Various elements of creative writing will be analyzed and emulated such as imagery, voice, character creation, setting, and story. The process of editing and revising work as a result of constructive feedback will also be an integral part of this class. Throughout this course, examples will be given, shared, and critiqued for each area of focus, and course material will center on strengthening one's confidence and abilities as a writer while exploring outlets for one's work such as scholarships and contests

1270 Career Writing and Readiness

Grades Offered: 12

Credits: 0.5

Semester

Prerequisite: American Literature Level I

NCAA Clearing House:
No

This course will assist students in developing and writing resumes and completing applications for colleges, scholarships, and job opportunities. Interviewing skills and career readiness will also be discussed. This course may be taken in conjunction with 1320 Literature for Life

1315 British Literature

Grades Offered: 11,12

Credits: 1

Full Year

Prerequisite: American Literature Level II/III and teacher recommendation

NCAA Clearing House:
Yes

Designed for college-bound students, this course offers an intensive study of the history of British literature and writing from the Medieval period through the Post-Modern period. Students will study a variety of literature including epic poems, poetry, drama, short story, and novels. The composition of essays on a variety of topics stresses expository writing as well as a formal research paper which is a requirement for completion of the course.

1320 Literature for Life (Level I)

Grades Offered: 12

Credits: 0.5

Semester

Prerequisite: American Literature. Course will count as an elective credit in Grades 9-11; may only be taken for English credit during 12th grade in conjunction with 1270. **NCAA Clearing House:** No

This course focuses on literacy skills in all four basic areas: reading, writing, speaking, and listening. Major units include literature study and debate. Students will complete some formal analysis writing. This course emphasizes soft skills and productivity skills that are essential in the workplace. This course may be taken in conjunction with 1270 Career Writing and Readiness.

1330 Literature and Composition (Level II)

Grades Offered: 12 **Credits:** 1 Full Year

Prerequisite: American Literature Level II/III and teacher recommendation **NCAA Clearing House:** Yes

Students will study a variety of literature, including novels, poetry, plays, and short stories. Also, reading comprehension of non-fiction is emphasized. The composition of essays on a variety of topics stresses expository writing as well as a formal research paper which is a requirement for completion of the course. Students are required to participate in a formal debate which includes writing persuasive arguments. The study of vocabulary and semantics will also be an integral part of the course.

1338 Journalism I

Grades Offered: 9,10,11,12 **Credits:** 0.5 Semester

Prerequisite: None **NCAA Clearing House:** Yes

This course is designed to introduce students to journalism and to develop within the student the ability to be an effective writer, reader, and researcher. Students will study and perform tasks relative to elements of news, features, sports and headline writing as well as production techniques. As reporters, students will become directly involved in actual activities and events at West Perry High School. Journalism students will create articles for the digital school magazine, The Whip, and submit stories and photos for monthly publication.

1350 AP® Language and Composition

Grades Offered: 11,12 **Credits:** 1 Full Year

Prerequisite: Teacher recommendation **NCAA Clearing House:** Yes

In this college-level course, students will study and write about complex texts in a wide range of genres. Writing tasks will help students to develop awareness of task and audience while writing for a variety of purposes. Students will study and practice techniques for improving argumentation, organization, and style in their writing. Through short papers, timed writings, and collaboration, students work toward a capstone research paper and the AP exam administered in May. The exam tests advanced critical reading and language competency through multiple-choice questions and a rigorous timed writing section. AP Exam scores of 5, 4, or 3, depending on the university, can count for college credit. AP courses at West Perry are given a weight of 1.10.

1355 AP® Literature and Composition

Grades Offered: 11,12

Credits: 1

Full Year

Prerequisite: Teacher recommendation

NCAA Clearing House:
Yes

In this college-level course, students will learn to analyze and interpret imaginative literature through the careful reading and critical analysis of representative works from various genres and periods. Students will explore literary elements such as a work's structure, style and themes, as well as the use of figurative language, imagery, symbolism and tone. Students will develop writing skills through expression of ideas and analysis in expository, analytical, and argumentative essays. Through short papers, timed writings, and collaboration, students work toward a capstone research paper and the AP exam administered in May. The exam tests advanced critical reading and language competency through multiple-choice questions and a rigorous timed writing section. AP Exam scores of 5, 4, or 3, depending on the university, can count for college credit. AP courses at West Perry are given a weight of 1.10.

1410 Science Fiction

Grades Offered: 10,11,12

Credits: 0.5

Semester

Prerequisite: Courses will count as an elective credit in Grades 10,11; may only be taken for English credit during 12th grade in conjunction with 1270 or 1320.

NCAA Clearing House:
Yes

This course explores the popular genre which uses science or pseudo-science in the creation of sci-fi novels, stories, television series, films and comics. This course may be taken in conjunction with 1270 Career Writing and Readiness OR 1320 Literature for Life.

1420 Mythology

Grades Offered: 10,11,12

Credits: 0.5

Semester

Prerequisite: Courses will count as an elective credit in Grades 10,11; may only be taken for English credit during 12th grade in conjunction with 1270 or 1320.

NCAA Clearing House:
Yes

This course examines myths and their influence on the human experience, language, superstitions, and archetypes. This course to be taken in conjunction with 1270 Career Writing and Readiness OR 1320 Literature for Life.

1430 Short Stories

Grades Offered: 10,11,12

Credits: 0.5

Semester

Prerequisite: Courses will count as an elective credit in Grades 10,11; may only be taken for English credit during 12th grade in conjunction with 1270 or 1320.

NCAA Clearing House:
Yes

This course examines the art of the short story. The course offers a look at the history of the short story, the elements within the short story, and the craft of composing a short story. Students will read several short stories from a variety of authors and time periods. This course to be taken in conjunction with 1270 Career Writing and Readiness OR 1320 Literature for Life.

1460 Intro to Film**Grades Offered:** 9,10,11,12**Credits:** 0.5

Semester

Prerequisite: Courses will count as an elective credit in Grades 9-11; may only be taken for English credit during 12th grade in conjunction with 1270 or 1320.**NCAA Clearing House:**
No

This course examines the artistic and social power of film as a medium of audio-visual communication. The course offers a systematic view of how cinema tells stories, organizes information, and creates unique aesthetic and social experiences. It integrates tenants of history, sociology, and film analysis. Many different genres of film will be used throughout. This course to be taken in conjunction with 1270 Career Writing and Readiness OR 1320 Literature for Life.



FOREIGN LANGUAGE



6025 Introduction to Spanish

Grades Offered: 9,10,11,12

Credits: 0.5

Semester

Prerequisite: Enrollment in Literature I.

NCAA Clearing House:
No

This semester course introduces very basic vocabulary and grammatical structures. Students will be expected to recall and reproduce common vocabulary terms and expressions, and common language patterns. The course content will cover the following: the Spanish alphabet, cognates and common nouns, gender of nouns, counting to 100, telling time, talking about the dates and weather, describing people and things with the “to be” verb SER, talking about parts of the body with the “to have” verb TENER, expressing feelings and location with the “to be” verb ESTAR, talking about plans and events with the “to go” verb IR, expressing likes and dislikes with both food and activities (infinitive verbs). This course is intended for students enrolled in Literature I.

6030 Spanish I

Grades Offered: 9,10,11,12

Credits: 1

Full Year

Prerequisite: Enrollment in Literature II

NCAA Clearing House:
Yes

This course concentrates on first year basic vocabulary comprehension, listening and speaking skills, and grammatical concepts. The student will be expected to conjugate verbs in the present tense, agree nouns and adjectives, complete speaking assignments, and actively participate in varied classroom activities. The content will be delivered through thematic units concerning the calendar, family and home, classes and hobbies, food, and sports and activities.

6040 Spanish II

Grades Offered: 10,11,12

Credits: 1

Full Year

Prerequisite: Spanish I

NCAA Clearing House:
Yes

The study of vocabulary and grammar is continued. A more precise knowledge of basic grammatical rules will be emphasized. Different verb tenses, such as the present progressive, the false future, and the preterit are introduced. Pronunciation is refined. The writing of more extensive sentences and paragraphs is stressed. Content will be introduced through thematic units concerning health, activities, places and events, shopping, travel, and daily routines.

6050 Spanish III

Grades Offered: 10,11,12

Credits: 1

Full Year

Prerequisite: Spanish II and teacher recommendation

NCAA Clearing House:
Yes

Emphasis is on reading comprehension, communication, and a precise knowledge of Spanish grammar. These will include, but not be limited to, the future, conditional, irregular preterit, imperfect, and

perfect tenses, passive voice, double object pronouns, formal and informal commands, and an introduction to the subjunctive tense. Content will be introduced through thematic units concerning travel and transportation, dining and cuisine, holidays, technology, lifestyle and self-care. Culture and literature will also be explored through the use of authentic and academic texts. Students are expected to use the target language (Spanish) for class discussion and participation.

6060 Spanish IV-Honors

Grades Offered: 11,12

Credits: 1

Full Year

Prerequisite: Spanish III and teacher recommendation

NCAA Clearing House:
Yes

This is an immersive course with exclusive instruction in the target language (Spanish), and the student is expected to communicate using the target language as well. The student will also speak, read, and write in Spanish synthesizing the different grammatical structures acquired in the previous Spanish courses. Spanish and Latin American history and culture will be explored through thematic chapters, and advanced language structures will be introduced.



HEALTH/ PHYSICAL EDUCATION



0010 Wellness/Fitness (M)

Grades Offered: 9,10,11,12

Credits: 0.5

Semester

Prerequisite: None

NCAA Clearing House:
No

Wellness and fitness is required every year. Students are encouraged to participate to the best of their ability. The concept of physical activity as a basic path to physical, emotional, and social development is stressed. Through active participation, students will develop their attitudes of sportsmanship, cooperation, courtesy, responsibility, interpersonal skills and an appreciation of the skills of other students. An understanding of the strategies used in participation is an integral part of the four year program. Health topics are integrated into the course including STDs, drug and alcohol education, and other current health and social issues that students face today.

0013 First Aid/CPR/Emergency Prep

Grades Offered: 10,11,12

Credits: 0.5

Semester

Prerequisite: None

NCAA Clearing House:
No

This course covers first aid, CPR, basic wilderness and survival skills and general safety. Attaining American Heart Association certification in community first aid and safety (first aid and CPR for adult, child, and infant) is being explored.

0020 Wellness/Fitness (F)**Grades Offered:** 9,10,11,12**Credits:** 0.5

Semester

Prerequisite: None**NCAA Clearing House:**

No

Wellness and fitness is required every year. Students are encouraged to participate to the best of their ability. The concept of physical activity as a basic path to physical, emotional, and social development is stressed. Through active participation, students will develop their attitudes of sportsmanship, cooperation, courtesy, responsibility, interpersonal skills and an appreciation of the skills of other students. An understanding of the strategies used in participation is an integral part of the four year program. Health topics are integrated into the course including STDs, drug and alcohol education, and other current health and social issues that students face today.

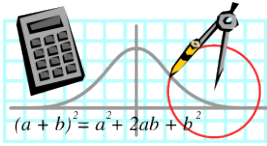
0038 Outdoor Education**Grades Offered:** 11,12**Credits:** 0.5

Semester

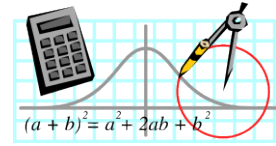
Prerequisite: None**NCAA Clearing House:**

No

Students will learn, demonstrate and understand the components of outdoor fitness and recreation. The goal will be for students to become motivated to not only learn about and enjoy the outdoors but incorporate outdoor activities into their future lifestyles. Other aspects will include Pennsylvania outdoor history, bird, tree and mammal identification, hands on archery, canoeing, fishing, conservation and environment issues, guest speakers, survival, safety, hiking, and an unlimited list of outdoor opportunities.



MATHEMATICS



GRAPHING CALCULATORS ARE AN INTEGRAL PART OF MANY OF THE COURSES. IF YOU ARE PLANNING TO PURCHASE A CALCULATOR, PLEASE ASK A MATH-TEACHER FOR A RECOMMENDATION.

<u>Career</u>	<u>Tech School</u>	<u>College</u>
Algebra I	Algebra I	Algebra I
Geometry I	Geometry I	Geometry (Level II or III)
Consumer Math Algebra II is a possibility but is a Level II course	Algebra II Level II/III or Consumer Math	Algebra II (Level II or III)
	Algebra III is a possibility	Algebra III Pre-Calc (Level II or III)
		AP® Calculus
Discrete Mathematics is an elective with Pre-Calculus as its prerequisite		
Probability & Statistics is an elective with Algebra II as its prerequisite		

Suggested Course Sequencing

0922 Algebra IA RES

Grades Offered: 9

Credits: 1

Full Year

Prerequisite: IEP Team Recommendation

NCAA Clearing House:
No

This course is designed for students requiring small group instruction to provide a comprehensive coverage of Algebra 1 topics aligned to meet the state standards. Algebra IA introduces the following algebraic concepts: numbers and operations, using formulas, solving and graphing linear equations and inequalities, systems of equations, probability and statistics. As topics are introduced and developed, students experience concepts through real-world applications.

0931 Algebra IB RES

Grades Offered: 10

Credits: 1

Full Year

Prerequisite: IEP Team Recommendation

NCAA Clearing House:
No

This course is designed for students requiring small group instruction to provide the second course in a two-year program that provides a comprehensive coverage of Algebra 1 topics aligned to meet the state standards. Students will take the Algebra 1 Keystone Exam following completion of this course. Algebra IB introduces the following algebraic concepts: systems of equations, non-linear functions, polynomials and factoring, quadratics, and right angle relationships. As topics are introduced and developed, students experience concepts through real-world applications.

0932 Mathematics 11 RES**Grades Offered:** 11**Credits:** 1

Full Year

Prerequisite: IEP Team Recommendation**NCAA Clearing House:**

No

This course is designed for students requiring small group instruction to apply basic skills in mathematics to everyday problems they will encounter as adults. The emphasis will be upon making wise decisions as a consumer and increasing knowledge pertaining to personal finance. Topics will include: gross pay and net pay, income taxes, purchasing consumer goods, banking services, insurance costs and benefits and housing costs.

0933 Mathematics 12 RES**Grades Offered:** 12**Credits:** 1

Full Year

Prerequisite: IEP Team Recommendation**NCAA Clearing House:**

No

This course is designed for students requiring small group instruction to apply basic skills in mathematics to everyday problems they will encounter as adults. The emphasis will be upon making wise decisions as a consumer and increasing knowledge pertaining to personal finance. Topics will include: gross pay and net pay, income taxes, purchasing consumer goods, banking services, insurance costs and benefits and housing costs.

3022 Geometry (Level I)**Grades Offered:** 10,11,12**Credits:** 1

Full Year

Prerequisite: Algebra I**NCAA Clearing House:**

Yes

This is a one year course in geometry that provides a comprehensive coverage of Geometric topics aligned to meet the state standards. Geometry introduces the following geometric concepts: basic fundamentals of geometry, reasoning and proofs, parallel lines, triangles, congruent and similar triangles, quadrilaterals, circles, and calculations of area, surface area, and volume. As topics are introduced and developed, students experience concepts through real-world applications.

3200 Consumer Math**Grades Offered:** 11,12**Credits:** 1

Full Year

Prerequisite: Algebra II and Teacher Recommendation**NCAA Clearing House:**

Yes

Students will apply basic skills in mathematics to everyday problems they will encounter as adults. The emphasis will be upon making wise decisions as a consumer and increasing knowledge pertaining to personal finance. Topics will include: gross pay and net pay, income taxes, purchasing consumer goods, banking services, insurance costs and benefits and housing costs.

3250 Algebra I (Level II)**Grades Offered:** 9,10**Credits:** 1

Full Year

Prerequisite: None**NCAA Clearing House:**

Yes

Students will take the Algebra 1 Keystone Exam following completion of this course. Applications of the mathematics to the real world will be explored using modeling. Topics include: real numbers and operations, writing and simplifying algebraic expressions, solving and graphing linear equations and inequalities, writing the equations of lines, systems of equations and exponents. Linear modeling with linear regression will also be included. Data analysis and statistics components are integrated throughout the course.

3260 Algebra II STEM

Grades Offered: 10,11,12

Credits: 1

Full Year

Prerequisite: Geometry and Teacher Recommendation

NCAA Clearing House:
Yes

The goals of this course are development and application of problem solving techniques, and development of logical thinking for the student who desires to further his/her study of math. Topics include: Expansion of Algebra I concepts, operations and applications of matrices, data analysis, statistics, probability, and studies of various functions including quadratic, polynomial, radical, exponential, logarithmic, rational, and trigonometric. This course requires summer work.

3265 Algebra III

Grades Offered: 11,12

Credits: 1

Full Year

Prerequisite: Algebra II and Teacher Recommendation

NCAA Clearing House:
Yes

This course is designed for college bound students who will not be entering the field of mathematics, science, or business requiring the higher level of mathematics associated with pre-calculus or calculus. This advanced algebra course will focus on the following topics: Exponential and Logarithmic Functions, Rational Functions, Conic Sections, Sequences and Series, Trigonometric Functions, and Trigonometric Identities and Equations. This course requires summer work.

3270 Algebra II (Level III)

Grades Offered: 10,11,12

Credits: 1

Full Year

Prerequisite: Geometry (Level III) and Teacher Recommendation

NCAA Clearing House:
Yes

This course is designed to prepare students for advanced math and is taught at an accelerated rate. The general goal is to develop algebraic skills and be able to apply them. Topics include: operations and applications of matrices, data analysis, statistics, probability, and studies of various functions including quadratic, polynomial, radical, exponential, logarithmic, rational, and trigonometric. Students will go into greater depth and be expected to solve more challenging problems. This course requires summer work.

3280 Geometry (Level II)

Grades Offered: 9,10,11,12

Credits: 1

Full Year

Prerequisite: Algebra I and Teacher Recommendation

NCAA Clearing House:
Yes

This course is designed to further develop the basic geometrical concepts that have been studied in earlier courses. It will also introduce more advanced concepts necessary for the student to pursue advanced math courses. Topics include: basic properties and definitions, types of proofs, properties of polygons and circles, areas and volumes of 2 and 3 dimensional figures, basic trigonometry and coordinate geometry, constructions and transformations. Problem solving is emphasized. This course

requires summer work.

3290 Geometry (Level III)

Grades Offered: 9,10,11,12

Credits: 1

Full Year

Prerequisite: Algebra I and Teacher Recommendation

NCAA Clearing House:

Yes

In addition to the curriculum followed in 3280 Geometry, this course will include a unit of logic and locus/loci problems and related constructions. Students will be expected to solve more challenging problems and to go into more subject depth. This course requires summer work.

3300 Pre-Calculus

Grades Offered: 11,12

Credits: 1

Full Year

Prerequisite: Algebra II (Level II/III) and Teacher Recommendation

NCAA Clearing House:

Yes

This course is designed for the advanced math student. All students interested in pursuing a career in math, science or computer science should take this course. Topics taught will include: linear programming, various types of functions and inequalities (including exponential, logarithmic and polynomials), trigonometric functions, equations and applications, sequence and series. Application problems will be emphasized and students are strongly encouraged to purchase a graphing calculator. This course requires summer work.

3350 Pre-Calculus Honors

Grades Offered: 11,12

Credits: 1

Full Year

Prerequisite: Algebra II (Level III) and Teacher Recommendation

NCAA Clearing House:

Yes

This course is designed for the accelerated math students. It follows the same curriculum as 3300 Pre-Calculus and adds advanced trigonometric, combinatorics, probability, conic sections and polar coordinates as time allows. Students will go into greater depth and be expected to solve more challenging problems. This course requires summer work.

3410 Probability & Statistics

Grades Offered: 11,12

Credits: 0.5

Semester

Prerequisite: Algebra II (Level II/III) and Teacher Recommendation

NCAA Clearing House:

Yes

This is a semester advanced math course designed for students who are college bound. All students interested in pursuing a career in math, engineering, science or business will profit from this course. This course introduces statistics as a problem-solving process. The student will build his/her mathematical skills through investigations of different ways to organize and represent data and describe and analyze variations in the data. Through practical examples, the student will come to understand the concepts of descriptive statistics, regression modeling of two variables, probability, and inferential statistics.

3420 Discrete Mathematics

Grades Offered: 11,12

Credits: 1

Full Year

Prerequisite: Pre-Calculus

NCAA Clearing House:

Yes

This course will provide students with an understanding of an array of mathematical concepts and methods which form the foundation of modern information science, in a form that will be relevant and useful for all students, especially those who wish to pursue a degree in Computer Information Systems. Topics will include, but not be limited to, Boolean logic, combinations and permutations, Model Theory, Boolean algebra, basic number theory and the study of binomial coefficients.

3460 AP® Calculus AB

Grades Offered: 11,12

Credits: 1

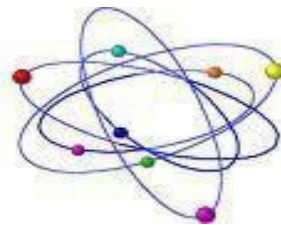
Full Year

Prerequisite: Pre-Calculus

NCAA Clearing House:

Yes

This course will be an introduction to calculus. Algebraic skills will be emphasized along with some theory. Several laboratory experiments will be used to develop the major topics of: limits, and differentiation and integration. Included will be the use of the CBL (time permitting). A graphing calculator is recommended.



SCIENCE

Sequence of Core Courses

<u>Career</u>	<u>Tech School</u>		<u>College</u>	
General Science	General Science	Biology I*	General Science	Biology I*
Biology I	Biology I	Chemistry (Level II or III)	Biology I*	Chemistry (Level II or III)
-Chemistry -Ag Science -Career Focused Electives	-Chemistry -Earth Science -Career Focused Electives	-Earth Science -Career Focused Electives	- Chemistry (Level II or III) HACC General Biology I/II -AP® Chemistry -Anatomy and Physiology -Physics	-HACC General Biology I/II -AP® Chemistry -Anatomy and Physiology -Physics

*Students must have completed Algebra I in 8th grade to take Biology in 9th grade

Course Name & Number	Credit Value	2024-2025	2025-2026
Chemistry Level III (4240)	1	X	X
HACC Biology 101 ()	1.5	X	X
HACC Biology 102 ()	1.5	X	X
Anatomy and Physiology (4345)	1	X	X
AP Chemistry (4245)	1	X	X
Physics Level III (4330)	1	X	X
Earth Science Level II (4030)	1	X	
Marine Science (4670)	0.5	X	X
Diversity of Life (4810)	0.5	X	X

4030 Earth Science (Level II)

Grades Offered: 11,12

Credits: 1

Full Year

Prerequisite: Biology

NCAA Clearing House: Yes

This course is designed for non college bound students and will address the State Science Standards in Science and Technology and Environment and Ecology. The focus of study is the Earth and the universe around it. Topics covered include: Earth processes including current theories of tectonics, geology, origins of the universe and Earth. Topics also include air pollution and climate change, natural resources, energy development, meteorology and astronomy. Prerequisite: biology

4060 General Science

Grades Offered: 9

Credits: 1

Full Year

Prerequisite: None

NCAA Clearing House:
Yes

This course is designed to support students who will take the Keystone Biology Course and Keystone Biology Exam. This course will address the State Science Standards in Science and Technology and Environment and Ecology and Biology. Topics will include but are not limited to overviews of basic chemistry, ecology, evolution, and scientific method.

4125 Biology I (Level II)

Grades Offered: 9,10

Credits: 1

Full Year

Prerequisite: 9th Grade: Algebra I and Teacher Recommendation
10th Grade: General Science

NCAA Clearing House:
Yes

This course is designed for students who will take the Biology Keystone Exam and will address the State Science Standards in Science and Technology and Biology. It is divided into several main topics with one third of the course spent on laboratory work. Topics presented are the scientific method, the chemical basis of life, cell structure and function, genetics, evolution, and ecology.

4140 Biology I (Level III)

Grades Offered: 9,10

Credits: 1

Full Year

Prerequisite: Algebra I and Teacher Recommendation

NCAA Clearing House:
Yes

This course is similar to 4125 Biology I, except it is taught as an honors course with more in-depth content and labs and an emphasis on critical thinking skills. At the conclusion of this course, students will take the Biology Keystone Exam. It is divided into several main topics with one third of the course spent on laboratory work. Topics presented are the scientific method, the chemical basis of life, cell structure and function, genetics, evolution, and ecology.

4230 Chemistry (Level II)

Grades Offered: 10,11,12

Credits: 1

Full Year

Prerequisite: Biology and Algebra I Keystone Exam Proficiency or
Teacher Recommendation

NCAA Clearing House:
Yes

This is a course designed for college bound students. Experimental and theoretical aspects of chemistry

are explored. This class will contain many mathematical formulas and calculations that will require a heavy use of Algebra I skills. Topics covered include atomic and electron structure; chemical bonding, reactions, and quantities; solution concentration; and the gas laws. Laboratory work is required.

4240 Chemistry (Level III)

Grades Offered: 10,11,12

Credits: 1

Full Year

Prerequisite: Biology and Algebra I Keystone Exam Proficiency or Teacher Recommendation

NCAA Clearing House:
Yes

This is a course designed for college bound students who are considering on a career in science, medicine, or engineering. This course is similar in content to 4210 CP Chemistry; however, topics will be explored faster, more in-depth, and with a greater emphasis on critical thinking skills. Students will be required to submit formal lab reports after experimentation. Time permitting, additional topics of equilibrium and thermochemistry will be included. A science fair project may be required to be completed in this course.

4245 AP[®] Chemistry

Grades Offered: 11,12

Credits: 2

Full Year

Prerequisite: Teacher Recommendation. Students will be required to provide transportation to Susquenita roughly every other day.

NCAA Clearing House:
Yes

Please be aware that this chemistry course is a difficult course. Students that have signed up for this course must be willing to dedicate a large amount of their time outside of school to the task of learning chemistry to this degree. It is estimated that some will spend at least one hour outside of school for each day in class. Much of the time will be in research and producing professional grade documents for class. Therefore, the student should have a great deal of organizational skills and academic ethics. You will be required to read and become skilled at many chemistry concepts before they are approached in class. Please review the guidance office policies for dropping classes before you commit yourself to this course. The prerequisites for Chemistry are successful completion of algebra and biology. For Advanced Placement Chemistry the student should have an average of 93% in each of the following classes: Chemistry, Biology, and Algebra II. If you are below this in any area please review the seriousness of this endeavor.

4330 Physics (Level III)

Grades Offered: 10,11,12

Credits: 1

Full Year

Prerequisite: Algebra II and enrolled in an advanced math and teacher recommendation

NCAA Clearing House:
Yes

This course is designed for the college bound student with an interest in a math/science career. The course encourages students to view physics as an ongoing process which leads to an understanding of the universe. Study centers on mechanics, waves, heat, light, electricity, and magnetism. Students master concepts through computer and laboratory work, challenging exercises, and textual materials. This course uses higher level math as a basis for concept understanding.

4345 Anatomy and Physiology Honors

Grades Offered: 11,12

Credits: 1

Full Year

Prerequisite: Biology (Level II/III) and Chemistry (Level II/III);

NCAA Clearing House:
Yes

teacher recommendation

This is an elective biology course which highlights human anatomy and physiology. This course provides students with laboratory experiences, including a cat dissection. This is recommended for students planning to enter the medical field (i.e., nursing). Due to being an elective class, no alternatives to dissections are available.

4670 Marine Science

Grades Offered: 10,11,12

Credits: 0.5

Semester

Prerequisite: Biology

NCAA Clearing House:
Yes

Students will learn about the chemistry of the ocean, the diversity of ocean life, marine ecology, and the impact that humans have on the world's oceans. Students will review the structure of water molecules and learn about the composition of sea water. Marine organisms that are studied will include microbes, plant life, invertebrates, and vertebrates. Students will also learn about many ecosystems within the world's oceans, and how biotic and abiotic factors interact within these ecosystems as well as explore human impacts on marine ecosystems including overexploitation, types of pollution, and climate change.

4810 Diversity of Life

Grades Offered: 10,11,12

Credits: 0.5

Semester

Prerequisite: Biology

NCAA Clearing House:
Yes

This course is a further study of biology which includes how viruses and bacteria cause infection. As well as classification and aspects of protists, fungi, plants, animals and a closer look particularly at arthropods.

D4008 General Biology I - HACC

Grades Offered: 12

Credits: 1.5

Semester

Prerequisite: Biology & Chemistry (Level II or III) and Teacher Recommendation, meet HACC Requirements

NCAA Clearing House:
Yes

Emphasizes biological organization; basic biochemistry; biophysics of living systems; membrane dynamics; cellular structures and functions; cellular reproduction, photosynthesis; cellular respiration; chromosomal and molecular inheritance. This course is intended for science majors. A course fee is required and a possible book purchase may be required. This course counts as 4 HACC credits.

D4009 General Biology II - HACC

Grades Offered: 12

Credits: 1.5

Semester

Prerequisite: D4008 General Biology I (HACC Biology 101), meet HACC requirements

NCAA Clearing House:
Yes

Continues the competencies taught in BIOL 101. This course emphasizes basic life functions of animal systems as it provides a detailed examination of organ systems which, in the mammal, support

homeostasis. In addition, this course presents the principles of heredity, reproduction and embryology; evolution as a process; and structure, function, and classification of major phyla of the animal kingdom. A course fee is required and a possible book purchase may be required. This course counts as 4 HACC credits.



SOCIAL STUDIES

Sequence of Core Courses

Career	Tech School	College
US History I (Level I)	US History I (Level I or II)	US History I (Level II)
US History II*(Level I)	US History II (Level I or II)*	US History II (Level II) or US History II (Level III)
Topics in Modern World History I** (Level I)	Topics in Modern World History (Level I** or II)	Topics in Modern World History (Level II**) or Topics in Modern World History (Level III)
American Government (Level I)	American Government (I or II)	American Government II or American Government AP®

* CPACTC - American History

** CPACTC - World History

Course Name & Number	Credit Value	2024-2025	2025-2026
Early European History (2550)	0.5		X
Modern European History (2560)	0.5		X
Holocaust Studies (2600)	0.5	X	
World Cultures (2750)	0.5	X	
World War II: America (2730)	0.5		X
Military History (2740)	0.5		X

2120 US History I (Level I)

Grades Offered: 9

Credits: 1

Full Year

Prerequisite: Teacher Recommendation.

NCAA Clearing House:

No

The mission of this course is to instill in the student an appreciation and knowledge of the people and events that have shaped our nation: Our English heritage, causes of our separation from England, the Revolutionary War, formation of the U.S. government, causes of the Civil War, the Civil War, Reconstruction, and westward expansion. Added dimensions include an emphasis on how people lived, major personalities, the link between geography and history, and how technology has changed our lives. Reinforcement of language arts skills is also emphasized.

2130 US History I (Level II)

Grades Offered: 9

Credits: 1

Full Year

Prerequisite: Enrolled in Literature II (Level II)

NCAA Clearing House:

Yes

This course is recommended for those students who plan to further their education. Analytical examination of American history and its relationship to society today are emphasized. Topics to be covered include: Our European heritage, causes of our separation from England, the Revolutionary War, formation of our government, causes of the Civil War, the Civil War, Reconstruction, and westward expansion. Added dimensions include an emphasis on how people lived, major personalities, the link between geography and history, and the influence of technology on our lives. Course work involves simulations, note taking, outside reading, research, and oral presentations. Reinforcement of language arts skills is also emphasized.

2220 US History II (Level I)

Grades Offered: 10

Credits: 1

Full Year

Prerequisite: US History I

NCAA Clearing House:

No

The story of America continues in this sequel to U.S. History I. Content areas examine the post-Civil War era, the rise of industrialism as well as the impact of immigration. Further study will track the development of America as a world power, resulting in power conflicts from the turn of the century to the present. This will include a discussion of the two World Wars, the Cold War, and the modern wars on Terror. The interrelationship of history and social change will be explored through topics such as the Civil Rights Movement. Reinforcement of language arts skills is also emphasized.

2230 US History II (Level II)

Grades Offered: 10

Credits: 1

Full Year

Prerequisite: US History I (Level II)

NCAA Clearing House:

Yes

For the college-bound student, this course offers an expansive view of how modern America came to be. The story of America continues in this sequel to U.S. History I. Content areas examine the post-Civil War era, the rise of industrialism as well as the impact of immigration. Further study will track the development of America as a world power, resulting in power conflicts from the turn of the century to the present. This will include a discussion of the two World Wars, the Cold War, and the modern wars on Terror. The interrelationship of history and social change will be explored through topics such as the Civil Rights Movement. Reinforcement of language arts skills is also emphasized. The course examines social issues, economic growth cycles, literature, the arts, popular culture, and foreign policy. Guided research, writing, and reading of diverse primary and secondary sources are skills offered for collegiate success.

2240 US History II (Level III)

Grades Offered: 10

Credits: 1

Full Year

Prerequisite: US History I (Level II) and teacher recommendation

NCAA Clearing House:

Yes

This course is designed for the advanced college preparatory student who seeks challenges and is capable of learning at an accelerated rate. The story of America continues in this sequel to U.S. History I. Content areas examine the post-Civil War era, the rise of industrialism as well as the impact of immigration. Further study will track the development of America as a world power, resulting in power conflicts from the turn of the century to the present. This will include a discussion of the two World Wars, the Cold War, and the modern wars on Terror. The interrelationship of history and social change will be explored through topics such as the Civil Rights Movement. Reinforcement of language arts

skills is also emphasized. Students are expected to have proficient writing skills since emphasis will be placed on improving writing and researching skills. Sharing of ideas and critical thinking are also vital to the course so class discussion will be assessed. Students are expected to go beyond accumulation of facts to higher levels of thinking. Additionally, a major research paper is required. It is similar in content to US History II.

2430 Psychology

Grades Offered: 11,12

Credits: 1

Full Year

Prerequisite: Biology I and teacher recommendation

NCAA Clearing House:
Yes

Modern Psychology is defined as the scientific study of human behavior and mental processes. Students in this class can expect to learn about why people act and think the way they do. We will start by studying the human body, its nervous system and our senses, as an introduction to behavior. We will continue by looking at the following areas within psychology: learning, human development, personality, cognition, psychological disorders, and social psychology. This course is designed as an active learning experience with numerous projects and activities in addition to traditional tests. Students will be challenged to participate and put forth their best creative efforts.

2450 AP® Psychology

Grades Offered: 11,12

Credits: 1

Full Year

Prerequisite: Biology I and teacher recommendation

NCAA Clearing House:
Yes

Students who take this class will have the opportunity to earn college credit by taking the AP Psychology test in the spring and are therefore expected to work at a college level. To reflect the students' commitment to this level of work a summer reading and written paper are requirements due at the start of the course. As a college course, AP Psychology is reading and information heavy so students should be warned about this work load. Psychology is the scientific study of behavior and mental processes. Psychology is not just the ideas and guesses of a casual observer because it relies on the scientific method and empirically supported facts. In keeping with this definition, we will study the principles and theories related to the major fields of psychology that have been verified using scientific and empirical investigation. We will also examine the ethical issues that psychologists face in research and practice.

2520 American Gov and Econ (Level I)

Grades Offered: 12

Credits: 1

Full Year

Prerequisite: Successful completion of Modern World History

NCAA Clearing House:
No

This course is designed to prepare the student to be a knowledgeable citizen of the United States, the Commonwealth of Pennsylvania and his or her local municipality AND offer the student the opportunity to gain a strong working knowledge of the American economic system. One part of the course will focus on how to take part in the many levels of government in our participatory society. Students will learn to recognize the different government levels and know the general duties and responsibilities of each level of government. Students will look at how both criminal and civil law systems work, as well as examine our political party system. Finally, students will examine their "unalienable" rights as guaranteed by the Constitution of both or nation and our state. The second part of the course address such topics as supply and demand, business cycles, inflation, government fiscal and monetary policies, business and corporate operations, investing, international finance and trade,

marketing, types of economic systems, personal finance and other key economic topics. As part of the course, students are required to attend a local government meeting and complete at least ten hours of community service.

2530 American Gov and Econ (Level II)

Grades Offered: 12

Credits: 1

Full Year

Prerequisite: Modern World History Level II

NCAA Clearing House:

Yes

This course is designed for college bound students or students who have shown a high proficiency in social studies. The content is similar 2520 with additional reading assignments and projects, including a 6-8 page position paper. As part of the course, students are required to attend a local government meeting and complete at least ten hours of community service. There is also a heavy concentration on college level reading and writing assignments to further prepare students for what they will experience in their college experience.

2545 AP® US Government & Politics

Grades Offered: 11,12

Credits: 1

Full Year

Prerequisite: Topics in Modern World History Honors and teacher recommendation

NCAA Clearing House:

Yes

Students who take this class will have the opportunity to earn college credit by taking the AP US Government & Politics test in the spring and are therefore expected to work at a college level. To reflect the students' commitment to this level of work a summer readings are requirements prior to the start of the course. As a college course, AP US Government & Politics involves significant nightly reading and a large volume of information. Students are responsible for their own learning. AP United States Government & Politics is the study of the origins and early development of our government, as well as the influences of political parties, civil rights, interest groups, and the media on elections and government functions. As a result, we will study the principles and theories that molded the Constitution, as well as Supreme Court cases that impacted government function, purpose, and power. We will also study the rights and powers of the American people to participate in, influence, and change the United States' government.

2550 Early Euro History

Grades Offered: 11,12

Credits: 1

Full Year

Prerequisite: Successful completion of US History II

NCAA Clearing House:

Yes

This course is designed for the serious student of history who desires preparation for the college experience. The student will explore the history, geography, art, economics and politics of Europe. Emphasis will be placed on the emergence of Europe as a distinct civilization that was a fusion of classical, Christian, and Germanic elements. Periods to be studied include the Middle Ages, the Renaissance, and the Reformation. Concepts such as feudalism and nationalism will be considered as they apply to various stages of European History.
(This course is offered every other year next offerings include 2025/2026 and 2027/2028)

2555 Modern Euro History

Grades Offered: 11,12

Credits: 1

Full Year

Prerequisite: Successful completion of US History II

NCAA Clearing House:

Yes

This course is designed for the serious student of history who desires preparation for the college experience. The student will examine the history of Europe from the Age of Absolutism through World War I. Areas of focus will include major political and social developments, including the rise of socialist and nationalist movements, imperialism and international relations, the rise of communism in Russia, and the devastation of Europe caused by World War I.

(This course is offered every other year next offerings include 2025/2026 and 2027/2028)

2600 Holocaust Studies

Grades Offered: 11,12

Credits: 0.5

Full Year

Prerequisite: Successful completion of US History II

NCAA Clearing House:

Yes

This course provides an in-depth look at one of the most horrendous events in recent human history: the slaughter of six million Jewish people and millions of other people during the Nazi era. It strives to combat prejudice and bigotry by transforming the horrors of the Holocaust into positive lessons to help make this a better and safer world for everyone. The course will help the student examine basic moral issues and address a basic tenet of American education, which is to examine what it means to be a responsible citizen. Due to the subject matter of the course, students will be confronted images and ideas that may be offensive to some.

(This course is offered every other year next offerings include 2024/2025 and 2026/2027)

2655 Topics in Modern World History (Level I)

Grades Offered: 11

Credits: 1

Full Year

Prerequisite: US History II

NCAA Clearing House:

No

In their junior year, students will examine a variety of themes concerning the history of modern world society. In acknowledgement of our ever-shrinking globe, these topics will address issues from around the world. Some themes to be examined are genocide, conflict in the Middle East, the growing economic importance of Asia, the political development of South America, and the impact of terrorism.

2665 Topics in Modern World History (Level II)

Grades Offered: 11

Credits: 1

Full Year

Prerequisite: US History II (Level II)

NCAA Clearing House:

Yes

This course is designed for either college bound students or those students who have shown a high proficiency in Social Studies. Content, which is similar to 2655, will be explored in greater detail. Students will complete additional, in-depth projects.

2670 Topics in Modern World Hist (Level III)

Grades Offered: 11

Credits: 1

Full Year

Prerequisite: Successful completion of US History II (Level II or Level III) and teacher recommendation

NCAA Clearing House:

Yes

This course is designed for the college bound student who is seeking an opportunity to further develop research and analytical skills. Content, which is similar to 2665, will be explored in much greater detail. Students will examine current events within the context of recent history. An emphasis will be placed on

the use of primary sources, multiple perspectives, and realistic solutions to various problems.

2730 WW II America

Grades Offered: 11,12

Credits: 0.5

Semester

Prerequisite: Successful completion of US History II

NCAA Clearing House:

No

No nation has ever been faced with a greater challenge than the United States in World War II, nor has any nation ever been more unprepared to face it. Yet, the industry and innovation of the American people met the vital challenge and established the foundations of the greatest superpower the world has ever known. Find out how America rose to meet the challenges of fascism and totalitarianism. Discover what life was like for civilians, soldiers, workers, and children. Study the efforts of how the United States Government transformed the lives of Americans in entertainment, propaganda, education, family life, broadcasting, print media, and government services. Participants in this course are required to engage in reconstructing history – through documents, oral histories, interviews, films, and artifacts. (This course is offered every other year next offerings include 2025/2026 and 2027/2028)

2740 Military History

Grades Offered: 11,12

Credits: 0.5

Semester

Prerequisite: US History I and US History II

NCAA Clearing House:

No

This course is a fast paced, in depth look at the reasons why Mankind has been motivated over the centuries to engage in this most destructive of all human endeavors. The course begins with a brief study of the foundations of Western and Eastern modes of warfare. The course will then progress through several military eras from the Dark Ages to the Modern Day. Each segment will focus on the analysis of the historical, political, economic, and most importantly the military science (tactics, weaponry, etc.) that influenced the outcomes of these conflicts. Good research and reading skills are important, as the student will be studying the lives of the common soldiers through personal narratives and research projects.

(This course is offered every other year next offerings include 2025/2026 and 2027/2028)

2750 World Cultures

Grades Offered: 10,11,12

Credits: 0.5

Semester

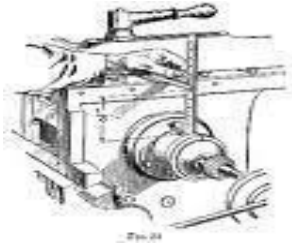
Prerequisite: None

NCAA Clearing House:

Yes

This course assists students in understanding the diverse populations of the world. The course will examine and compare the political systems, religion, social structures, and economic systems of different cultures. It will also examine the impact of these areas on human culture and the impact of cultural conflict.

(This course is offered every other year next offerings include 2024/2025 and 2026/2027)



ELECTIVES



2800 Partners I

Grades Offered: 10,11,12

Credits: 0.5

Full Year

Prerequisite: Students may earn a maximum of 2 credits in their high school career

NCAA Clearing House:
No

This course will provide students with the opportunity to learn and understand human differences. Students will work with peers who have different learning styles and varying forms of communication. Students will assist and interact with peers who are members of the Life Skills Support classes in various settings. A requirement of the course will be the need to demonstrate self-discipline and self-responsibility. This would be an appropriate course for students who plan on entering the teaching profession.

Business and Computer Science Offerings

<u>Course</u>	<u>2024-2025</u>	<u>2025-2026</u>
Career Interests, Skills, and Readiness (5000)	X	X
Personal Finance (5040)	X	X
Law and Ethics (5050)	X	
Accounting I (5220)	X	X
Accounting II (5225)	X	
Intro to Business and Marketing (5265)		X
Introduction to Computer Programming (5920)	X	X
Programming I (5555)	X	X
Programming II (5655)	X	X
Intro to Robotics (5950)	X	X
Web Design (5960)	X	
AP® Computer Science A (5975)	X	X

Potential Computer Science Course Sequencing

<u>Sequence 1</u>	<u>Sequence 2</u>
Programming I (5555)	Introduction to Computer Programming (5920)
Programming II (5655)	Programming I (5555)
AP® Computer Science (5975)	Programming II (5655)
	AP® Computer Science (5975)

5000 Career Interests Skills and Readiness

Grades Offered: 9,10,11,12

Credits: 0.5

Semester

Prerequisite: None

NCAA Clearing House:
No

This required course will allow students to meet the requirements set forth in Chapter 339 and will assist students in navigating the future academically, financially, and professionally. Topics covered include professionalism, career readiness, financial literacy, entrepreneurship, and resource management. Students will be able to identify soft skills that will propel them toward success in the global economy. Career exploration will prepare individuals for the changing work environment. Money management will play a key role in the course, helping students to prepare for a secure financial future. Students will be given the tools necessary to be a productive citizen in any community.

5040 Personal Finance

Grades Offered: 11,12

Credits: 0.5

Semester

Prerequisite: None

NCAA Clearing House:
No

Personal Finance will explore many areas of interest that will enhance your financial security. The student will discover new ways to maximize their earning potential, explore strategies for managing their resources, and gain valuable knowledge into the different ways of investing. Students will also acquire skills in budgeting, opening and maintaining a checking account, along with knowledge of the time value of money. Students will also benefit from the knowledge gained concerning the many types of insurance and their importance. Students will begin a lifelong journey of personal financial planning.

5050 Law and Ethics

Grades Offered: 10,11,12

Credits: 0.5

Semester

Prerequisite: None

NCAA Clearing House:
No

Law and Ethics will motivate learning with a look at rights and responsibilities as workers, and how concepts of right and wrong and ethics are reflected in our laws. This course stresses the involvement of law and basic rules of conduct in common problems. Topics will include, among others, an understanding of negotiable instruments, contracts, liability, contractual relationships, as well as laws that protect creditors and debtors.

5220 Accounting I

Grades Offered: 11,12

Credits: 0.5

Semester

Prerequisite: None

NCAA Clearing House:
No

This course teaches accounting theory. Accounting career paths are explored. Good business habits, business ethics, neatness and accuracy in preparing records, and problem solving are skills that are emphasized. Sole proprietorship and partnership for merchandising and service entities, are taught. This course is for students wanting to learn accurate business or personal record keeping.

5225 Accounting II

Grades Offered: 11,12

Credits: 0.5

Semester

Prerequisite: Accounting I

NCAA Clearing House:
No

This course is an in depth look at the Accounting cycle. The material taught builds upon the information provided in Accounting I. Good business habits, business ethics, neatness and accuracy in preparing records, and problem solving are skills that are emphasized. Students will learn how to create, manage, and maintain accounting records for a merchandising business organized as a corporation. This course is for students working toward a business future. Prerequisite: Accounting I

5265 Intro to Business and Marketing

Grades Offered: 9,10,11,12

Credits: 0.5

Semester

Prerequisite: None

NCAA Clearing House:
No

Business Communications is an orientation course designed for all students. This course will introduce the student to the world of business and help prepare them for their economic roles of consumer, worker, leader, and citizen. This course will assist the student with business decisions and development. It will focus on building skills such as effective planning and management. General principles are presented through this course and are intended to be a guide in taking your first step into the exciting world of business marketing and leadership.

5555 Programming I

Grades Offered: 9,10,11,12

Credits: 0.5

Semester

Prerequisite: None

NCAA Clearing House:
No

This course will introduce the students to an object-oriented programming language, Java, and is intended for students who exhibit a love of mathematics-based problem solving. Topics will include, but are not limited to, primitive variables, the string class, conditional statements, loops and nested loops, and output features. Most projects are done individually although some are completed with a partner. No previous programming experience or skills are necessary, though an interest in mathematics and algebra should be present. This course is an elective for all students.

5655 Programming II

Grades Offered: 10,11,12

Credits: 0.5

Semester

Prerequisite: 5555 Programming I and teacher recommendation

NCAA Clearing House:
No

This course will explore topics learned in Java I at greater depth, as well as introduce one- and two-dimensional arrays, text files and console interaction. Problem solving will remain the focus of the course. Projects and content may be flexible, dependent upon the students' interests. Prerequisite - 5555 PROGRAMMING I with a grade of 70% or better.

5920 Introduction to Computer Programming

Grades Offered: 9,10,11,12

Credits: 0.5

Semester

Prerequisite: Algebra I

NCAA Clearing House:
No

This course presents a smorgasbord of computer coding opportunities. It starts out with a taste of

HTML 5, the language behind web sites. Web Design and Development would be a follow-up course for the HTML enthusiast. Next, students will follow and learn the Computer Science Discoveries series from Code.org, which is an introductory computer science course mapped to CSTA standards. The course takes a wide lens on computer science by introduction to programming and app design with a heavy focus on important skills like debugging, pair programming, and user testing. Students will learn how to design user interfaces, write event-driven programs, build apps that store and process large amounts of information, explore how scientists design algorithms to solve problems and how they analyze the speed of different algorithms, and explore how list, loops, and traversals can be used to build apps. Students will design projects such as apps, animations, and games covering the topics of problem solving, programming, physical computing, user centered design, and data. Programming I would be a follow up course for students who are interested in more in-depth programming concepts.

5951 Introduction to Robotics

Grades Offered: 9,10,11,12

Credits: 0.5

Semester

Prerequisite: None

NCAA Clearing House:
No

This course is devoted to logic, computer programming, and problem solving using robots to solve authentic problems. The course uses programming language to develop a foundation in coding and programming designed to direct and control the movement of robots. Additionally, students will work with a variety of sensors that allow their robot to interact with its environment to help it make simple decisions based upon logic and data. Hands-on in nature, this course allows students to design and build the robots, program them, and then test them to determine how well they work. Students will use the Engineering Design Process (EDP) to organize and assess their work and make improvements as needed. Prerequisite: Algebra I.

5960 Web Design Programming

Grades Offered: 9,10,11,12

Credits: 0.5

Semester

Prerequisite: Algebra I

NCAA Clearing House:
No

This course introduces students to the mechanics and elements of HTML programming as well as using the CSS programming language for the design of static web sites. Students will learn the concepts of planning and organizing websites, and documentation and copyright issues associated with website design. Students will progress through the course, engaging in a variety of project-based assessments to evaluate their understanding. Prerequisite: Algebra I.

5975 AP® Computer Science A

Grades Offered: 11,12

Credits: 1

Full Year

Prerequisite: Programming II

NCAA Clearing House:
No

Students will learn to design and implement computer programs that solve problems relevant to today's society; problems in fields such as engineering, mathematics, media and art. Students will also learn to apply programming tools and solve complex problems through hands-on experiences and examples. Prerequisite: Programming II.

Technology & Engineering Education Offerings

<u>Course</u>	<u>2024-2025</u>	<u>2025-2026</u>
Exploring Metalworking & Electrical Tech (7005)	X	X
Exploring Wood & Plastics Technology (7010)	X	X
Exploring Graphics Technology (7015)		X
Home Projects (7020)	X	X
Transportation Systems Eng. & Design (7025)	X	X
Structural Engineering (7030)		X
Ind Metal Tech (7100)		X
Wood Technology (7110)	X	X
Plastics Tech (7120)	X	
Fine Metal Tech (7130)		X
Construction Tech (7140)		X
Technical Sketch (7150)		X
Engineering Graphics (7160)		X
Graphic Communication Technology (7175)		X
CAD - Computer Aided Drafting (7205)		X
Architectural Drafting (7215)		X
Digital & Print Media (7250)		X
Digital Audio & Video Production (7260)	X	X

7005 Exploring Metalworking & Electrical Tech

Grades Offered: 9,10,11,12

Credits: 0.5

Semester

Prerequisite: None

NCAA Clearing House:

No

Exploring Metalworking and Electrical Technology provides an introduction to various areas of technology education available at West Perry. In this course, students will explore some of the various concepts, materials, and processes by business and industry. Exploring Metalworking & Electrical Technology focuses on various metals, metal working processes, and electrical applications. Exploring Metalworking and Electrical Technology incorporates some basic science, technology, engineering, art, math, and writing skills; coupled with strong-oriented curriculum. Tool and general safety are a major focus; as well as basic problem solving with hands-on activity. This course may be taken alone, or in conjunction with other Exploring Technology courses. Exploring Metalworking and Electrical Technology allows students to explore some of the various concepts, materials, and processes used by industry related to working with various metals, metal working processes, and electrical applications. The course incorporates Science, Technology, Engineering, Art, and Math (STEAM) to develop skill in thinking, writing, verbal, and visual communication delivered in a hands-on oriented approach to learning. Tools and general safety are a focus of instruction in the course; along with problem solving and critical thinking. This course may be taken alone, or in conjunction with other Exploring Technology courses to build a broader making and building experience.

7010 Exploring Wood & Plastics Technology

Grades Offered: 9,10,11,12

Credits: 0.5

Semester

Prerequisite: None

NCAA Clearing House:
No

Exploring Wood and Plastics Technology allows students to explore some of the various concepts, materials, and processes used by industry related to working with various polymers (wood & plastics) used for making and building products. The course incorporates Science, Technology, Engineering, Art, and Math (STEAM) to develop skill in thinking, writing, verbal, and visual communication delivered in a hands-on oriented approach to learning. Tools and general safety are a focus of instruction in the course; along with problem solving and critical thinking. This course may be taken alone, or in conjunction with other Exploring Technology courses to build a broader making and building experience.

7020 Home Projects

Grades Offered: 9,10,11,12

Credits: 0.5

Semester

Prerequisite: None

NCAA Clearing House:
No

Home projects allow students to experience principles and practices associated with basic home repairs such as light electrical work, plumbing, finishes, landscaping, appliances, automotive, home safety, and other forms of general maintenance. The course incorporates Science, Technology, Engineering, Art, and Math (STEAM) to develop skill in thinking, writing, verbal, and visual communication delivered in a hands-on oriented approach to learning where students will fix, make, and build in ways associated with the challenge of home ownership. Tools and general safety are a focus of instruction in the course; along with problem solving and critical thinking.

7025 Transportation Systems Eng. & Design

Grades Offered: 10,11,12

Credits: 0.5

Semester

Prerequisite: Algebra I

NCAA Clearing House:
No

TSE&D allows students to experience the Engineering Design Process (EDP) to build and race a CO₂-powered dragster using a Technology Student Association (TSA) design brief. Students will be required to solve authentic problems framed by competition requirements and limitations. The course incorporates Science, Technology, Engineering, Art, and Math (STEAM) to develop skill in thinking, writing, verbal, and visual communication delivered in a hands-on oriented approach to learning. At the conclusion of this course students should be able to use their vehicle to qualify and compete at PA-TSA regional competition if their design has met the requirements. Membership in TSA club is not mandatory for this class but is highly recommended. TSE&D is offered only during the fall semester so that the course timeline aligns with the TSA regional competition timeline for those students who choose to compete with the West Perry Chapter of TSA.

7100 Industrial Metal Tech

Grades Offered: 9,10,11,12

Credits: 0.5

Semester

Prerequisite: Exploring Metalworking and Electrical Technology

NCAA Clearing House:
No

Metals can be cut, machined, bent, formed, melted, welded, soldered, cast, and riveted. Students in this course will have the opportunity to perform all the above operations as they work with various metals. Industrial Metal Technology incorporates moderate science, technology, engineering, art, math, and

writing skills; coupled with a strong project-oriented curriculum. Tool and general safety are a major focus of the course, as well as moderate problem-solving skills with hands-on activity. Recommended Prerequisite - Exploring Metalworking and Electrical Technology.

7110 Wood Technology

Grades Offered: 10,11,12

Credits: 0.5

Semester

Prerequisite: Exploring Wood and Plastics Technology.

NCAA Clearing House:

No

Wood Technology allows students to experience advanced processes that involve the cutting and shaping of woods to build a higher-level project. Building in this course requires students to develop more advanced fit, finish, and joinery skills to achieve a high-quality product. The course incorporates Science, Technology, Engineering, Art, and Math (STEAM) to develop skill in thinking, writing, verbal, and visual communication delivered in a hands-on oriented approach to learning. Tools and general safety are a focus of instruction in the course; along with problem solving and critical thinking. Wood Technology is designed to extend student experience beyond Exploring Wood and Plastics Technology and students are expected to engage and act with more responsibility and maturity in this course.

7130 Fine Metal Tech

Grades Offered: 10,11,12

Credits: 0.5

Semester

Prerequisite: Exploring Metalworking and Electrical Technology

NCAA Clearing House:

No

Fine Metal Technology allows students to experience advanced processes that include layout and assembly, hard and soft soldering, and casting and forming to build a variety of higher-level projects from sheet metal and metal ingots. Building in this course requires students to develop an understanding of properties, processes, and fabrication to achieve high-quality products. The course incorporates Science, Technology, Engineering, Art, and Math (STEAM) to develop skill in thinking, writing, verbal, and visual communication delivered in a hands-on oriented approach to learning. Tools and general safety are a focus of instruction in the course; along with problem solving and critical thinking. Fine Metal Technology is designed to extend student experience beyond Exploring Metal Technology and Electricity and students are expected to engage and act with more responsibility and maturity in this course.

7140 Construction Tech

Grades Offered: 10,11,12

Credits: 0.5

Semester

Prerequisite: None

NCAA Clearing House:

No

Construction Technology allows students to experience working with modern building materials and practices on a small construction project. Building in this course requires students to develop an understanding of blueprint reading, estimating, site preparation, masonry, frame construction, weather proofing, and construction techniques to achieve high-quality results. The course incorporates Science, Technology, Engineering, Art, and Math (STEAM) to develop skill in thinking, writing, verbal, and visual communication delivered in a hands-on oriented approach to learning. Tool and general safety are a focus of instruction in the course; along with problem solving and critical thinking. Construction technology is designed to extend student experience beyond Exploring Metal Technology and Electricity and students are expected to engage and act with more responsibility and maturity in this course.

7260 Digital Audio & Video Production

Grades Offered: 10,11,12

Credits: 0.5

Semester

Prerequisite: Journalism I

NCAA Clearing House:
Yes

Course is designed to focus on electronic-based recording technologies used to capture audio and/or video communication. Students will learn industry-based procedures and processes for producing and editing projects. A combination of Chromebook and laptop technology will be used as tools to optimize the experience. Software and apps like Audacity and iMovie, or their equivalent, will be used to capture, edit, and mix content. Skills such as storyboarding, shooting/recording, editing, blocking/assembling, producing, sequencing, and taking will be covered. Digital photography, microphone mapping, mixing, and mastering will all be explored and practiced. Students who are considering a career path in the recording industry (audio or video) should consider taking this course.

7800 Creative Clothing

Grades Offered: 9,10,11,12

Credits: 0.5

Semester

Prerequisite: None

NCAA Clearing House:
No

This course is a basic sewing class with emphasis on reading a pattern, use of the sewing machine, and learning several hand stitches. Students will complete two sewing projects.

7830 Exploring Foods

Grades Offered: 11,12

Credits: 0.5

Semester

Prerequisite: None

NCAA Clearing House:
No

In this course, students will learn how to prepare a variety of delicious foods incorporating art into their food preparation. This course focuses on measurements, reading and following recipes, proper nutrition and diet, and kitchen safety.

7840 Creative Interiors

Grades Offered: 9,10,11,12

Credits: 0.5

Semester

Prerequisite: None

NCAA Clearing House:
No

Students interested in interior design will enjoy creating floor plans of their “dream house” and other similar projects. Various styles of architecture and housing will be studied as well as different decorating techniques. One of the highlights of this course is creating a small scale version of a room complete with furniture, floor and window treatments, and wall coverings.

7850 Effective Parent

Grades Offered: 9,10,11,12

Credits: 0.5

Semester

Prerequisite: None

NCAA Clearing House:
No

This course will help students to thoroughly examine the lifestyle changes and responsibilities involved in parenthood. Students take a realistic look at the job of parenting and how a baby affects the new parents’ relationship with each other, family, and friends. As part of this course, students are responsible for caring for the computerized baby during a period of 48 hours.

Art Course Offerings

<u>Course</u>	<u>2024-2025</u>	<u>2025-2026</u>
2D Design (8010)	X	X
3D Design (8020)	X	X
Ceramics I (8040)	X	X
Ceramics II (8041)	X	
Sculpture (8050)	X	
Drawing And Composition (8080)		X
Drawing And Painting (8085)	X	
Digital Design (8090)		X
Painting (8120)	X	
Studio (8140)	X	X

8010 2D Design

Grades Offered: 9,10,11,12

Credits: 0.5

Semester

Prerequisite: None

NCAA Clearing House:
No

This course is available to all students, but is recommended for students who desire to take further two dimensional art courses (Digital Design, Drawing & Painting, Painting, and Studio). Hands on exploration of two dimensional art styles, such as drawing, painting and printmaking will be the focus of the course.

8020 3D Design

Grades Offered: 9,10,11,12

Credits: 0.5

Semester

Prerequisite: None

NCAA Clearing House:
No

This course is available to all students, but is recommended for students who desire to take further three dimensional art courses (Ceramics, Sculpture, and Studio). Hands on exploration of three dimensional art styles such as sculpture and ceramics will be the focus of the course.

8040 Ceramics I

Grades Offered: 9,10,11,12

Credits: 0.5

Semester

Prerequisite: None

NCAA Clearing House:
No

This is a concentrated course in clay that involves hand building, sculpture, potter's wheel, decorative effects and glazing.

8041 Ceramics II

Grades Offered: 10,11,12

Credits: 0.5

Semester

Prerequisite: 8040 Ceramics I and Teacher Recommendation

NCAA Clearing House:
No

This course builds on the basic techniques and processes learned in Ceramics I. New hand building and glazing techniques will be explored as well as advanced wheel skills.

8050 Sculpture

Grades Offered: 9,10,11,12

Credits: 0.5

Semester

Prerequisite: 3-D Design

NCAA Clearing House:

No

3D Design is required before taking this course. Students will build upon concepts learned in 3D Design with mediums such as clay, plaster, paper, and other materials. Principles of 3-D design are stressed as well as craftsmanship and creativity.

8085 Drawing and Painting

Grades Offered: 9,10,11,12

Credits: 0.5

Semester

Prerequisite: 2-D Design or Drawing and Composition

NCAA Clearing House:

No

This course builds on basic drawing and painting techniques learned in previous drawing, painting and 2D Design classes. A wide range of drawing and painting mediums will be explored.

8090 Digital Design

Grades Offered: 10,11,12

Credits: 0.5

Semester

Prerequisite: 2-D Design and Drawing and Composition

NCAA Clearing House:

No

This course explores concepts and skills in photography, graphic design, and digital art. Skills such as photographing manually and enhancing photo quality will be explored. Students will leave the course with a portfolio of their work that could be used to apply for art programs or start a small photography business.

8120 Painting

Grades Offered: 11,12

Credits: 0.5

Semester

Prerequisite: 2-D Design and Drawing & Composition OR
Drawing & Painting

NCAA Clearing House:

No

This course introduces students to painting in various media. Students will learn color theory and mixing. Techniques for various media, abstract and realistic subject matter choices, and creative self-expression in paint will be explored. This course may be taken twice in order to earn one credit with teacher permission.

8140 Studio

Grades Offered: 11,12

Credits: 1

Full Year

Prerequisite: Minimum 1.5 art credits and Teacher
Recommendation

NCAA Clearing House:

No

This course is for serious art students. The goal of this course is to improve techniques and explore a variety of artistic styles. Students will develop a body of art work and present that work with a gallery show. This course can be taken twice for credit.

Music Course Offerings

8510 Guitar Class

Grades Offered: 9,10,11,12

Credits: 0.5

Semester

Prerequisite: Must own an acoustic guitar or rent an acoustic guitar (No electrical guitars or amps will be allowed)

NCAA Clearing House:
No

This class is designed as a fun and diverse introduction to the versatile world of the guitar. Students will enjoy the relaxed atmosphere of a small class setting as we learn the basics of reading music, rhythms, and the fundamentals of composing. We will become proficient on simple melody and chord reading, basic strumming patterns and learning how to write music in both traditional notation and tablature which is relevant to contemporary musical trends. Student must own or rent an acoustic guitar (no electric guitars or amps will be allowed).

8540 Music Theory I

Grades Offered: 9,10,11,12

Credits: 0.5

Semester

Prerequisite: None

NCAA Clearing House:
No

This course is for the serious music student who will learn how music is put together through analysis and interpretation. Emphasis will be on mastering the fundamentals of music, writing melodies and harmonizing them with the three primary chords and with use of non-harmonic tones. Exposure to sight singing, ear training and rhythmic dictation will also be included in this course.

8560 Concert Band

Grades Offered: 9,10,11,12

Credits: 1

Full Year

Prerequisite: Ability to play a brass, woodwind, or percussion instrument. One year of prior study in any school ensemble is recommended.

NCAA Clearing House:
No

This course will provide high school students with a positive musical experience while promoting growth individually and as a member of the ensemble. Emphasis is placed on musical excellence through developing musicianship and musical skills while continuing a strong work ethic. The We/Us concept of the overall Team/Ensemble will be the major focus of this course. This is a performance-based course; therefore attendance at all performances is expected. All students will participate in instrumental sectional lessons that will meet once per cycle. This course will meet opposite Mixed Chorus, so those members who wish to participate in Concert Band and Mixed Chorus can enroll in both courses.

8570 Mixed Chorus

Grades Offered: 9,10,11,12

Credits: 1

Full Year

Prerequisite: Returning students must have previously passed Chorus to maintain enrollment.

NCAA Clearing House:
No

Mixed chorus provides an eclectic view of many different styles of music and the opportunity to sing and perform in two concerts a year. Students enrolled in Mixed Chorus will learn basic music notation and sight reading skills with an emphasis on musical excellence and quality sound. This course is performance-based and attendance at all concerts is therefore mandatory.

COLLEGE GUIDANCE

Career Clusters contain occupations in the same field of work that require similar skills. Students can use Career Clusters to help focus their education plans toward obtaining the necessary knowledge, skills, and training for success in a specific career pathway. The chart below lists the courses West Perry offers in alignment with the Career Clusters to allow students to align selected courses to future career goals.

Career Cluster	Courses
Agriculture, Food & Natural Resources	Agriscience and Technology, Large Animal Science and Nutrition, Pet and Small Animal Management, Veterinary Science and Technology, Plant and Soil Science, Wildlife, Fishery & Forestry Science, Small Gas Engines, Diversified Agriculture Mechanics, Advanced Agriculture Mechanics, Introduction to Agribusiness, Supervised Agricultural Experience (SAE), FFA Leadership, Agricultural Career Study, Outdoor Education, Marine Science
Architecture & Construction	Exploring Metal & Electrical Tech, Exploring Wood & Plastics, Home Projects, Industrial Metal Tech, Wood Technology, Plastics Tech, Fine Metal Tech, Construction Tech, Exploring Metalworking & Electrical Technology, Exploring Wood & Plastics Technology, Home Projects, Industrial Metal Technology, Wood Technology, Plastics Technology, Fine Metal Technology, Construction Technology, Creative Interiors
Arts, Audio/Video Technology & Communications	Science Fiction, Introduction to Film, Introduction to Drama, Journalism I, Graphic Communication Technology, Digital & Print Media (DTP), Digital Audio & Video Production, Creative Clothing, 2- D Design, 3-D Design, Ceramics I, Ceramics II, Sculpture, Drawing and Composition, Drawing and Painting, Digital Design, Painting, Studio, General Music, Guitar Class, Voice, Music Theory I, Music Theory II, Popular Music in America, Concert Band, Mixed Chorus
Business, Management & Administration	Consumer Math, Personal Finance, Law and Ethics, Accounting I, Introduction to Business and Marketing
Education & Training	Partners I, Psychology, Effective Parenting, Healthy Relationships and Family Living
Finance	Consumer Math, Personal Finance, Accounting I, Introduction to Business and Marketing
Government & Public Administration	AP U.S. Government & Politics, Law and Ethics
Health Science	First Aid/CPR/Emergency Preparedness, Human Performance, Pre- Calculus, Probability and Statistics, Calculus, Physics Honors, HACC- General Biology I, Anatomy and Physiology Honors, Forensics

	Science, Psychology
Hospitality & Tourism	Exploring Foods, Introduction to Business and Marketing
Human Services	Psychology, World Cultures, Effective Parenting, Healthy Relationships and Family Living
Information Technology	Introduction to Computer Programming, Programming I, Programming II, ROBOTC, Intro to Robotics, Web Design, AP Computer Science A, Exploring Graphics Technology, Transportation Systems Engineering and Design, Graphic Communication Technology, Engineering Innovation and Invention, Computer Aided Design (CAD), Digital & Print Media (DTP), Digital Audio & Video Production, Digital Design
Law, Public Safety, Corrections & Security	Forensics Science, AP U.S. Government & Politics
Manufacturing	Exploring Metalworking & Electrical Technology, Exploring Wood & Plastics Technology, Industrial Metal Technology, Wood Technology, Plastics Technology, Fine Metal Technology, Construction Technology, Technical Sketching, Industrial Materials
Marketing, Sales & Service	Personal Finance, Accounting I, Introduction to Business and Marketing, Technical Sketching, Digital Design
Science, Technology, Engineering & Mathematics (STEM)	Pre-Calculus, Probability and Statistics, Discrete Mathematics, Calculus, Physics Honors, HACC – General Biology, Introduction to Computer Programming, Programming I, Programming II, ROBOTC, Robotics, Web Design Programming, AP Computer Science A, Exploring Metalworking & Electrical Technology, Exploring Wood & Plastics Technology, Exploring Graphics Technology, Home Projects, Transportation Systems Engineering and Design, Structural Engineering, Industrial Metal Technology, Wood Technology, Plastics Technology, Fine Metal Technology, Construction Technology, Technical Sketching, Engineering Drawing & Design, Graphic Communication Technology, Engineering Innovation and Invention, Computer Aided Design (CAD), Architectural Drafting & Design, Industrial Materials
Transportation, Distribution & Logistics	Small Gas Engines, Transportation Systems Engineering and Design

Graduation Planning

Student Name: _____ Student ID: _____

Subject Area	9th Grade	10th Grade	11th Grade	12th Grade	Totals
ENGLISH					4 credits
SOCIAL STUDIES					4 credits
SCIENCE					3/4 credits <i>*3 credits CPACTC</i>
MATHEMATICS					3/4 credits <i>*3 credits CPACTC</i>
WELLNESS/FITNESS					1 credit
CAREER/POST-SECONDARY READINESS					0.5 credit
ARTS/HUMANITIES					2 credits
ELECTIVES					6.5 credits
TOTAL CREDITS					25
CHAPTER 339 ARTIFACTS	Activities 1 - 5	Activities 6 - 10	Activities 11 - 16		8
Keystone Scores Graduation Pathways: <i>see back for details</i>					<i>Proficiency</i>
					<i>Composite</i>
					<i>Other</i>

Keystone Proficiency: (Meet All)	Algebra (1500+)	Biology (1500+)	Literature (1500+)
Keystone Composite: (Meet All)	No Score Bel. Bas.	1 Score Prof/Adv.	4452+
Alternate Assessment: (1 Artifact)	ASVAB (31)	PSAT (970)	SAT (1010)
<i>Meet locally established, grade-based req. for Keystone content in which the student is less than Proficient.</i>	ACT (21)	4-YR Acceptance	Pre-Apprentice Prg
	AP (3+ related to Keystone less than Proficient)		
	Successful completion of course related to Keystone less than Proficient		
CTE CONCENTRATOR: (1 Artifact)	NOCTI	Pre-NOCTI	Con't CTE P.O.S.

Meet locally established, grade-based req. for Keystone content in which the student is less than Proficient.

Evidence-Based: (3 Artifacts)	Section One (1+)
<i>Artifacts consistent with student goals.</i>	SAT Subj. Test (630+)
	ACT WorkKeys (Silver Level+)
	AP Exam (3+)
	Successfully complete Dual Enroll.
	NOCTI
	Other-Than-4YR Acceptance
	Section Two (No more than 2)
	Proficient or Advanced ANY Keystone
	Successful: Service-Learning Project
	Proof: Full-Time employment or Military
	Complete: Internship, Externship, or Cooperative Ed. Prg.
	Compliance: NCAA DII requirements

Appendix A – Cumberland Area CTC Course Descriptions



Whether you are planning to attend college, seek employment, join the military, or pursue other options, **Cumberland Perry Area CTC programs give students an advanced career pathway by the time they graduate high school.**

Cumberland Perry Area Career & Technical Center (CPACTC) is jointly owned and operated by thirteen regional school districts. The programs are an extension of your high school electives, offering comprehensive instruction in 22 career and technical programs. Students attend CPACTC for half of their school day, taking courses in their technical program plus social studies. Students attend their sending high school for English, Science, Mathematics, Physical Education, and other graduation requirements.

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

CPACTC has a competitive application process that includes attendance, grades, teacher recommendations, and a career readiness interview. [CLICK HERE TO APPLY](#), or go to <http://www.cpatech.org>

Clicking on the program names below will connect you to the program web page at www.cpatech.org.

2024-2025 CAREER PATHWAYS AND PROGRAMS AT CPACTC

<p><u>CONSTRUCTION AND MAINTENANCE</u></p> <p>Carpentry Electrical Construction and Maintenance Heating/Ventilation/Air Conditioning (HVAC) Horticulture/Landscaping Masonry</p>	<p><u>ARTS & TECHNOLOGY</u></p> <p>Advertising Art & Design Computer Networking Computer Programming</p>
<p><u>MANUFACTURING</u></p> <p>Advanced Manufacturing Technology Automation, Robotics & Electronics Welding Technology</p>	<p><u>HEALTH SCIENCES</u></p> <p>Dental Assisting Healthcare Pathways Emerging Health Professionals</p>

HUMAN SERVICES AND HOSPITALITY

[Cosmetology](#)
[Criminal Justice](#)
[Culinary Arts](#)
Early Childhood Education

TRANSPORTATION & LOGISTICS

[Auto Collision Technology](#)
[Automotive Technology](#)
[Diesel Technology](#)
Logistics & Warehouse Management

*Cumberland Perry also offers a DIVERSIFIED OCCUPATIONS Program. This is a work-based learning program for students not enrolled in a traditional Career and Technical Education Program. Please refer to the description at the end of this booklet for more information.

The Cumberland Perry Area Career & Technical Center does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities and provides equal access to the Boy Scouts and other designated youth groups. The Cumberland Perry Area Career & Technical Center does not discriminate in any manner, including Title IX sexual harassment, in any school program or activity. The school has established Title IX personnel to promptly respond to concerns and reports of sexual harassment and assault. All investigations into reports of sexual harassment and assault will be impartial, free of bias and conflicts, and will not prejudice the facts for either side. The school strives to maintain an environment where all students, staff, and greater community feel safe. Inquiries may be directed to the CPACTC Title IX Coordinator or the Section 504 Coordinator: Administrative Director, 110 Old Willow Mill Road, Mechanicsburg, PA 17050 or 717-697-0354 or jbruhn@cpatech.org.

ADVANTAGES FOR STUDENTS ATTENDING CPACTC

Learn Real World Skills

Students learn real world skills using the same tools and equipment as industry professionals. By demonstrating their knowledge and abilities, student can earn a Pennsylvania Skills Certificate through the PA Department of Education. To earn the Pennsylvania Skills Certificate, students must achieve at the “Advanced” level on the end of program NOCTI test. The test consists of two parts – theory and performance. The Theory portion covers factual knowledge, technical information, understanding of academic principals and problem solving related to the technical field. The Performance portion of the NOCTI test allows students to demonstrate their skills to industry professionals who proctor the exam.

Earn College Credits

College in the High School Program

The College in the High School (CHS) program allows high school students to take college classes while enrolled at the CTC during the regular school day. Students who are eligible to take College in the High School courses can earn credits toward high school graduation and credits towards a college degree at the same time. Depending on the program, participating colleges and universities include HACC, Pennsylvania College of Technology (Penn College), and Harrisburg University (HU). The courses are taught by CPACTC instructors, who have been approved by the college/university to teach these courses. HACC, Penn College, and HU award college credits and a college transcript to students who complete the courses with a passing grade. These credits are often eligible to transfer to other colleges and universities that a student may attend. For College in the High School course details go to www.cpatech.org.

College Credit Articulation Agreements

EVERY PROGRAM at CPACTC has the opportunity to earn articulated credit at a participating post-secondary school. This means that college credits are awarded when students meet certain requirements and enroll at a participating school. Program specific articulation agreements can be found at www.cpatech.org.

SOAR Program

Twenty programs at CPACTC (visit www.cpatech.org) qualify under the Pennsylvania Department of Education's SOAR program, which grants college credit at various post-secondary schools in Pennsylvania when students meet the following requirements:

1. Graduate from high school with a 2.5 in the CTC program
2. Achieve a score of "Advanced" or "Competent" on the NOCTI exam
3. Successfully complete all tasks on the Program of Study task list (generally requires student to complete all three years of a program)

Earn Industry-Recognized Credentials

CPACTC students have the opportunity to earn industry credentials which employers recognize and indicate a student has achieved particular skills and knowledge. There are MANY CREDENTIALS offered at CPACTC and they are specific to a student's program and career pathway. Examples include PA State Inspection certification for Auto Tech students and Certified Nursing Assistant certification for nursing students. A complete list of credentials is listed under each program at www.cpatech.org description. During the 2022-2023 school year, CPACTC students earned 1428 credentials!

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

Suggested Course Sequence for For Students Enrolled in Career and Technical Programs:

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

CONSTRUCTION AND MAINTENANCE PROGRAMS

CARPENTRY

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

Potential Career Pathways **(w/ 2023 Median Wage)**

Carpenters-\$50,815
Construction Laborers-\$46,185
Construction Managers-\$95,260*
Supervisors-Construction & Ext.
Workers-\$68,310*
Construction and Building Inspectors-
\$59,800
Cabinet Makers & Bench Carpenters-
\$36,410
...and many more!

Industry Credentials

OSHA10-Construction
ASHI Basic First Aid
ASHI CPR & AED
JLG Aerial Work
Platform
JLG Material Handler
JLG Scissor Lift
PA Builders Association

College Credits

((Visit our website to view
all college articulation
partners))

2023 PA Dept. of Labor In-Demand Occupation List
2023 PA Dept. of Labor High Priority Occupation
*ONET Online Bright Outlook Occupation 2023

ELECTRICAL CONSTRUCTION AND MAINTENANCE

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

Potential Career Pathways **(w/ 2023 Median Wage)**

Electrical Engineers-\$98,530*
Electrical Power-Line Installers &
Repairers-\$81,380
Supervisors-Construction & Ext.
Workers-\$68,310*
Electricians-\$66,270
Security and Fire Alarm Installer-
\$48,970*
...and many more!

Industry Credentials

OSHA 10-Construction
NJATC 1st Year Apprenticeship
IEC 1st Year Apprenticeship
PA Builder's Assoc. Skills Cert

College Credits

(Visit our website to view all
college articulation partners)

2023 PA Dept. of Labor In-Demand Occupation List
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 *ONET Online Bright Outlook Occupation 2023

HEATING, VENTILATION, AIR CONDITIONING, AND REFRIGERATION

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

Potential Career Pathways
 (w/ 2023 Median Wage)

Energy Engineers-\$99,040
 VAC Mechanics & Installers-
 \$51,105
 Geothermal Technicians-
 \$39,830
 ...and many more!

Industry Credentials

OSHA 10-Construction
 EPA 608
 Pa Builder’s Association Skills
 Cert.

College Credits

(Offered Thru HACC)

VAC 100-EPA Refrigeration
 IVAC 101-Basic Elec. Func.
 HVAC 103-Fund. Of A/C
 IVAC 109-Heating Systems

Visit our website to view all
 college articulation partners)

2023 PA Dept. of Labor In-Demand Occupation List
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HORTICULTURE AND LANDSCAPING

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

<u>Potential Career Pathways</u> <u>(w/ 2023 Median Wage)</u>	<u>Industry Credentials</u>	<u>College Credits</u> (Offered thru Pennsylvania Coll. Of Tech.)
Farmworkers/Laborer (greenhouse)-\$31,985	OSHA 10-Construction A Certified Horticulturalist	HORT 101-Intro. Ornamental Horticulture
Landscaper/Groundskeeper- 6,600	Assoc. Pesticide Certification	HORT 113-Ornamental Plants
Supervisor-Landscapers and Groundskeepers- \$49,370*		(Visit our website to view all college articulation partners)
Pesticide Handler, Sprayer, Applicator-\$35,840		
Grounds Maintenance Workers- \$32,090*		
Soil and Plant Scientist-\$63,200 ...and many more!		

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MASONRY

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

<u>Potential Career Pathways</u> <u>(w/ 2023 Median Wage)</u>	<u>Industry Credentials</u>	<u>College Credits</u> (Visit our website to view all college articulation partners)
Brickmason and Blockmason- \$55,320	OSHA 10-Construction Rough Terrain Forklift Class 7	
Cement Masons/Concrete Finishers- \$54,910	PA Builder's Assoc. Skills Cert.	
Tile and Stone Setters-\$50,865	Mobile Elevating Work Platform (MEWPS)	
Helpers-Brick/Block/Stonemason- \$46,130 ...and many more!		

2023 PA Dept. of Labor In-Demand Occupation List
2023 PA Dept. of Labor High Priority Occupation
*ONET Online Bright Outlook Occupation 2023

ARTS AND TECHNOLOGY PROGRAMS

ADVERTISING ART & DESIGN

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

Potential Career Pathways **(w/ 2023 Median Wage)**

Graphic Designers-\$50,855
Desktop Publishers-\$45,390
Special Effects Artists and
Animators-\$75,270
Commercial and Industrial Designer-
\$68,890
...and many more!

Industry Credentials

Adobe Photoshop
Adobe InDesign
Adobe Illustration

College Credits

(Visit our website to view all
college articulation partners)

2023 PA Dept. of Labor In-Demand Occupation List
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*ONET Online Bright Outlook Occupation 2023

COMPUTER NETWORKING

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

Potential Career Pathways **(w/ 2023 Median Wage)**

Information Security Analyst-
\$89,795
Network/Comp. System Admin.-
\$81,995
Web Developer-\$72,190*
Computer User Support Spec.-
\$55,400
...and many more!

Industry Credentials

CompTiA A+
CompTiA Net+
CCNA
Linux+
Server+
Security+

College Credits

(Offered thru HACC)

CNT 120-Network Tech.
Communications

CNT 125-Network Tech.
Communications

(Visit our website to view all
college articulation partners)

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Occupation List
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Occupation
*ONET Online Bright Outlook
Occupation 2023

COMPUTER PROGRAMMING

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

Potential Career Pathways **(w/ 2023 Median Wage)**

Software Developers-
\$99,280*
Web Developer-\$72,190*
Computer Net. Supp. Spec.-
\$55,400
...and many more!

Industry Credentials

PCEP Certified Entry Level Python
Programmer - Python Institute

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College Credits

(Offered thru Harrisburg
University)

CISC 120-Fund. Of
Computing
CISC 160-Data Structures
CISC 300- Web
Technologies

(Visit our website to view
all college articulation
partners)

HEALTH SCIENCES PROGRAMS

DENTAL ASSISTING

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

Potential Career Pathways

(w/ 2023 Median Wage)
Dental Assistant-
\$42,010
Dental Lab Technician-
\$42,200
Dental Hygienist-
\$71,900
...and many more!

Industry Credentials

DANB Radiation Health and Safety
DANB Infection Control
ASH CPR & AED
ASHI Basic First Aid
OSHA 10-Healthcare

College Credits

(Visit our website to view
all
college articulation
partners)

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HEALTHCARE PATHWAYS

The Healthcare Industry employs over 600,000 Pennsylvanians and is the largest private employer in Cumberland County. Employment is projected to increase 15% by 2026 and there is a tremendous need for skilled workers to fill the current and future skills gap. The Healthcare Pathways Program at Cumberland Perry Area CTC prepares students with the theoretical knowledge and tangible skills needed for a variety of different pathways within the Healthcare Industry, including employment and post-secondary education opportunities.

After a core curriculum that includes an Introduction to Healthcare, Patient Care Skills, Anatomy and Physiology, and Medical Terminology, students will have the ability to select options within the program that best fit their future career goals, including the potential attainment of stackable credentials and college credits. Elective options include Phlebotomy, EKG, CNA, Office Procedures, and Pharmacy Technician courses, Cooperative Education, and seniors may apply for the Emerging Health Professionals program.

Potential Career Pathways (w/ 2023 Median Wage)

Nursing Assistants-\$35,020
Home Health Aide-\$27,485
Registered Nurse-\$75,995
...and many more!

Industry Credentials

Certified Nursing Assistant
Personal Care Aide
ASHI CPR & First Aid + Basic First Aid
Act 31 Mandated Reporter
OSHA 10-Healthcare
AMCA Phlebotomy Technician
NHA Pharmacy Technician

College Credits

(Visit our website to view
all
college articulation partners)

2023 PA Dept. of Labor In-Demand Occupation List
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EMERGING HEALTH PROFESSIONALS

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

Potential Career Pathways
(w/ 2023 Median Wage)

Family and General Practitioners-\$210,220*
Physician Assistants-\$102,775
Nurse Practitioners-\$101,950*
Physical Therapists-\$88,450

Program offers various other health career pathways as well.

Industry Credentials

Personal Care Aide
ASHI CPR & First Aid + Basic First Aid
Act 31 Mandated Reporter
OSHA 10-Healthcare

College Credits

(Offered thru Messiah College)

BIO185/185L-Anatomy and Phys. I
BIO186/186L-Anatomy and Phys. II
(Each Course is 4 Credits)
MTR 100-Medical Terminology

(Visit our website to view all college articulation partners)

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HUMAN SERVICES AND HOSPITALITY PROGRAMS

CULINARY ARTS

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

Potential Career Pathways
(w/ 2023 Median Wage)

Chefs/Head Cooks-\$57,040
Food Service Manager-\$55,320
Supervisor-Food Prep. & Servers-\$37,180
Cooks, Ins. & Café.-\$31,840
Cooks-Restaurant-\$29,330
...and many more!

Industry Credentials

Servsafe Manager
Servsafe Allergens
ProStart I & II
ACF Certified Fundamentals Cook

College Credits

(Visit our website to view all college articulation partners)

2023 PA Dept. of Labor In-Demand Occupation List
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COSMETOLOGY

The **Cosmetology** program at CPACTC gives students a great head start to a lucrative career. Our curriculum is rigid, however, by the time student's graduate they will have skills desirable to employers in the Cosmetology industry. Students in the program learn all aspects of hair care, skin care, and nail care,

and not only do they practice on mannequins, but they practice on each other as well. Once the student earns 300 hours they are ready to apply skills to customers in the Cosmetology clinic. Instruction also includes resume writing, interviewing, marketing and retailing, so students are prepared to start the job search process. Students need to earn 1250 hours to be eligible to test for the PA Cosmetology License Exam.

Potential Career Pathways
(w/ 2023 Median Wage)

Spa Manager-\$110,630
Skincare Specialist-\$34,090*
Cosmetologist-\$30,580
Manicurist and Pedicurist-\$25,705
...and many more!

Industry Certifications

PA State Board of Cosmetology License
Barbicide

College Credits

(Visit our website to view all college articulation partners)

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CRIMINAL JUSTICE

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

Potential Career Pathways
(w/ 2023 Median Wage)

Supervisor-Police & Detectives-\$91,090*
Detectives and Criminal Investigators-\$83,170
Emergency Management Directors-\$74,590*
Police/Sheriff Patrol Officer-\$68,975
Correctional Officers/Jailers-\$54,580
...and many more!

Industry Credentials

NIMS IS 100 SERIES
NIMS IS 200 SERIES
NIMS IS 700 SERIES
NIMS IS 800 SERIES
ASHI CPR/AED Pro
ASHI Basic First Aid

College Credits

(Visit our website to view all college articulation partners)

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EARLY CHILDHOOD EDUCATION

The **Early Childhood Education** program instructs students in the preparation and presentation of

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

Potential Career Pathways <u>(w/ 2023 Median Wage)</u>	<u>Industry Credentials</u>	<u>College Credits</u> (Offered thru Shippensburg University)
Elementary School Teacher-\$64,640 Childcare Admin.-Preschool & Daycare-\$48,210 Preschool Teachers-\$31,370 Childcare Workers-\$25,820 ...and many more!	Health and Safety Basics/Better Kid Care Act 31 Mandatory Reporter Training ASHI CPR & AED Pro Child Development Associate (Ready) 2023 PA Dept. of Labor In-Demand Occupation List 2023 PA Dept. of Labor High Priority Occupation *ONET Online Bright Outlook Occupation 2023	ECH 204-Child Development ECH 205-Positive Behavior ECH 206-Early Childhood (Visit our website to view all college articulation partners)

TRANSPORTATION AND LOGISTICS PROGRAMS

AUTOMOTIVE COLLISION TECHNOLOGY

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

Potential Career Pathways <u>(w/ 2023 Median Wage)</u>	<u>Industry Credentials</u>	<u>College Credits</u> (Offered thru Penn. Coll. Of Tech)
Automotive Body & Related Repairers-\$46,200 Insurance Appraiser-\$64,950 Claims Adjuster, Examiner, Investigator-\$66,790 ...and many more!	I-CAR (various) PA Emissions Inspection PA Safety Inspection SP/2 Automotive EPA 609-A/C OSHA 10-Transportation	ABC 100-Intro. to Non-Structural Repair ABC 104-Intro.to Non-Structural Repair Apps. (Visit our website to view all college articulation partners)

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AUTOMOTIVE TECHNOLOGY

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

Potential Career Pathways (w/ 2023 Median Wage)	<u>Industry Credentials</u>	<u>College Credits</u>
Automotive Service Technicians-\$43,805 Automotive Engineers-\$88,430 Automotive Engineering Technicians-\$56,980 Auto Parts Salesperson-\$31,710 ...and many more!	I-CAR (various) Tech) PA Emission Inspection PA Safety Inspection EPA 609-A/C OSHA 10-Transportation	(Offered thru Penn. Coll. Of AMT 109-Auto Elec Fund AMT 112-Brake Systems AMT 113-Steering & Suspension AMT 126-Engine Elec Systems
		(Visit our website to view all college articulation partners)

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DIESEL TECHNOLOGY

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

Potential Career Pathways
(w/ 2023 Median Wage)

Transportation Vehicle, Equipment, Sys.
Inspector-\$75,820
Bus/Truck Mechanic & Diesel Engine
Spec.-\$49,925
Automotive Service Technicians-\$42,010
...and many more!

Industry Credentials

Cat 1-7 Safety Inspector
PA Emissions
EPA 609-A/C
OSHA 10-General Industry

College Credits

(Visit our website to view all
college articulation partners)

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LOGISTICS AND WAREHOUSE MANAGEMENT

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

Potential Career Pathways
(w/ 2023 Median Wage)

Material Handlers-\$30,290
Forklift Operators-\$36,800
Stock Clerks and Order Fillers-\$32,465
Shipping, Receiving, Inventory Clerk-
\$39,040
Transportation, Storage and Distrib.
Mgr-\$103,260
Supply Chain Manager-\$94,560
Logistics Analyst-\$74,750
...and many more!

Industry Credentials

NSC Forklift Operator
OSHA 10-General Industry

College Credits

(Visit our website to view all
college articulation partners)

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MANUFACTURING PROGRAMS

AUTOMATION, ROBOTICS & ELECTRONICS

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

<u>Potential Career Pathways</u> <u>(w/ 2023 Median Wage)</u>	<u>Industry Credentials</u>	<u>College Credits</u>
Industrial Machinery Mechanics- \$54,730 Electrical and Electronic Engineering Tech.-\$65,260 Robotics Technician-\$58,350 Industrial Engineering Tech.-\$56,550 Electromechanical Technician-\$46,960 ...and many more!	OSHA 10-Manufacturing	(Visit our website to view all college articulation partners)

ADVANCED MANUFACTURING TECHNOLOGY

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

<u>Potential Career Pathways</u> <u>(w/ 2023 Median Wage)</u>	<u>Industry Credentials</u>	<u>College Credits</u> (Offered thru HACC)
CNC Machine Tool Programmers- \$56,520 Machinists-\$47,030 CNC Machine Tool Operators-\$45,190 ...and many more!	National Institute of Metalworking Skills (NIMS) – Various (11) OSHA 10-Manufacturing	MDES 207-Mach Shop Theory IA 205-Numerical Control CNC (Visit our website to view all college articulation partners)

2023 PA Dept. of Labor In-Demand Occupation List

2023 PA Dept. of Labor High Priority Occupation

*ONET Online Bright Outlook Occupation 2023

WELDING TECHNOLOGY

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

Potential Career Pathways (w/ 2023 Median Wage)

Welders, Cutters, Solderers, &
Brazers-\$47,140
Structural Metal Fabricators &
Fitters-\$40,390
...and many more!

Industry Credentials

AWS Shielded Metal Arc Welding
(SMAW)-3G
AWS Shielded Metal Arc
Welding (SMAW)-4G
AWS Gas Metal Arc Welding
(GMAW)-3G
AWS Gas Tungsten Arc Welding
(GTAW)-3G
AWS Fluxcore Arc Welding D1.1
A100
OSHA 10-Manufacturing

College Credits (Offered thru HACC)

WELD 102-Oxy Fuel W & C
WELD 103-Shielded Metal Arc I
WELD 120-Gas Metal Arc I

(Visit our website to view all
college articulation partners)

2023 PA Dept. of Labor In-Demand Occupation List
2023 PA Dept. of Labor High Priority Occupation

DIVERSIFIED OCCUPATIONS

The Diversified Occupation (DO) Program provides training in a career and technical field that may not be offered at CPACTC or as an alternative form of education to meet a student's unique needs.

This program combines classroom instructions in employability skills with on-the-job training through an employer that will align with the career interest of high school students. Career competencies are developed by the employer under the direction of a designated supervisor.

Students in this program attend Cumberland Perry 1 half-day per week learning employability skills and spend 4 half-days per week working at least 15 hours in a paid, supervised work experience. More information can be found at <http://www.cpatech.org>