WEST BRANCH AREA HS COURSE SELECTION BOOK



2022-2023

FROM THE PRINCIPAL:

Dear West Branch High School Students and Parents:

It is time to select your courses for the 2022-2023 school year. Here at West Branch, we offer many courses that provide opportunities for personal and academic growth of the student. There are many elective classes and several dual enrollment courses that are available to a wide range of students in grades 9 - 12.

Please take the time to read through the course descriptions of the courses that you are interested in taking in order to ensure that you meet the requirements and that the class is in line with your interests. Also, check closely the prerequisites and information on weighted grades as this can be very important to your success in the class. Furthermore, it is important to consider your plans for the future, your interests, and your abilities when you are choosing courses for next year. Parental involvement in arriving at these decisions is essential to the whole process. Our counselor is available to you during this time period and will be glad to assist you with your planning.

Thank you for your consideration in this matter.

Sincerely,

Joseph R. Holenchik

GENERAL GUIDELINES 2022-2023	5
PROMOTION REQUIREMENTS	5
GRADUATION REQUIREMENTS	5
SCHEDULE CHANGES	6
WEIGHTED GRADES	6
DUAL ENROLLMENT	6
COURSE OFFERINGS	7
ART CURRICULUM	7
BUSINESS	7
PHYSICAL EDUCATION, HEALTH, AND SAFETY EDUCATION	8
TECHNOLOGY	8
INSTRUMENTAL MUSIC / CHORUS	
LANGUAGE ARTS	11
FOREIGN LANGUAGES	
MATHEMATICS	14
SCIENCE	
SOCIAL STUDIES	
ONLINE COURSES	
CLEARFIELD COUNTY CAREER AND TECHNOLOGY CENTER	24
INTRODUCTION	24
PARTICIPATING SCHOOLS	24
ORGANIZATIONS	24
NTHS (National Technical Honor Society)	24
Skills USA	24
NOCTI (National Occupational Competency Testing Institute)	
SOAR (Students Occupationally and Academically Ready)	25
PROGRAMS OF STUDY	25
Auto Mechanics Technology	
Carpentry and Building Construction	25
Collision Repair Technology	

Contents

Cooperative Education / Diversified Occupations	26
Cosmetology	26
Culinary Arts & Food Management	26
Diesel Equipment Maintenance	27
Digital Media Arts	27
Drafting and Design	27
Electrical Occupations	28
Health Occupations Technology	28
Heating, Air Conditioning, Ventilation, Refrigeration	29
Information Technology	29
Masonry	29
Welding and Metal Fabrication Technology	29

GENERAL GUIDELINES 2022-2023

PROMOTION REQUIREMENTS

Students must have earned the required credits to be enrolled in that year's homeroom. The following number of credits is required for promotion:

Grade	Credits
9	6
10	12
11	17
12	25

GRADUATION REQUIREMENTS

Students are required to demonstrate a mastery of student learning outcomes in the nine academic areas as specified by Chapter V, Section 5.202 of the PA School Code.

Students must demonstrate performance at proficient level or above on the Keystone Algebra 1, Literature, and Biology exams. If students do not meet proficiency on these state exams, they must show proficiency on a local assessment aligned with academic standards. Students who do not meet this requirement will not be eligible to graduate and cannot participate in senior activities.

Students must complete a graduation portfolio.

Students must earn specific credits in the following areas:

Subject	Credits
English	4
Math	4
Science	4
Social Studies	3.5
Physical Education	2
Arts and Humanities	2
Health	.5
Safety Education	.5
Electives	4
Computer Technology	.5

SCHEDULE CHANGES

There are no schedule changes other than those made in cases of master schedule conflicts, extreme emergency, or extenuating circumstances. No schedule changes will be made after the first three (3) days of school.

NOTE:

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.

WEIGHTED GRADES

Academic (multiplied by 1.04)	Honors (multiplied by 1.08)
Advanced English 10 – 12	Advanced English Composition
Advanced American History	Honors Chemistry II
Advanced U. S. History	Honors Physics
Advanced World Cultures	Calculus
Advanced Biology 9	Honors Anatomy
Pre-Calculus	Intro to Sociology
	Public Speaking

DUAL ENROLLMENT (with Penn Highlands CC (\$55.00-\$60.00 per credit)

Honors Chemistry II (4 credits)	Advanced English Composition (3 credits)
Calculus (4 credits)	United States History I & II (3 credits)
Public Speaking (3 credits)	Intro to Sociology (3 credits)

COURSE OFFERINGS

ART CURRICULUM

3D ART (601A) – Elective (alternating year	rs)	
1 Semester – 5 periods/week	Grades 9 – 12	.5 credit
Students will expand upon 3D art-maki	-	
critique, and art history with an emphasis	on creative problem-sc	olving and personal expression.
	,	
2D ART (602A) – Elective (alternating year	-	E a calla
1 Semester – 5 periods/week	Grades 9 – 12	.5 credit
		h drawing, painting, design, critique, and
art history with an emphasis on creative p	problem-solving and per	rsonal expression.
INTRO TO ART (603A) – Elective		
1 Semester – 5 periods/week	Grades 9 – 12	.5 credit
Students will explore art-making techni		
design, critique, and art history with an er	•	
BUSINESS		
Boshillss		
WORD PROCESSING (319A) – Elective		
1 Semester – 5 periods/week	Grades 10 – 12	.5 credit
This course will give instruction on the w		
to create letters, resumes, reports, and		
newsletters, brochures, and flyers.		
ADVANCED COMPUTER RESEARCH (702)	- Required	
2 Semesters – Every other day	Grade 9	.5 credit
The student will learn to utilize online s	ources to create resea	rch projects, including: research papers,
PowerPoint presentations, web pages, ar	nd spread sheet charts.	Available to the student will be a variety
of programs and resources.		
ACCOUNTING I (705) – Elective		
2 Semesters – 5 periods/week	Grades 10 – 12	1 credit
This course teaches the basic fundament		
financial transactions and analyzing, ver	ifying, and reporting th	e results.
SPREADSHEETS (723A) – Elective		
1 Semester – 5 periods/week	Grades 10 – 12	.5 credit
		, use formulas and functions, and apply
formats, borders, and shading. Students		

PHYSICAL EDUCATION, HEALTH, AND SAFETY EDUCATION

PHYSICAL EDUCATION – (959, 960, 962,	and 963) - Required	
2 Semesters – Every other day	Grades 9 – 12	.5 credit
All students will demonstrate developm	nent in motor and physical	fitness (aerobic fitness included) and
required sport specific skills. This is ach	ieved by participating in a p	lanned program of sports and fitness
activities.		
ADAPTIVE PHYSICAL EDUCATION (709)		
2 Semesters – 2 periods/week	Grades 9 – 12	.5 credit
The Adaptive Physical Education course		
sports, and rhythms. It is suited to the i	-	-
safely engage in unrestricted participation		
An excuse from a doctor must be prese	nted for placement in Adap	tive Physical Education each year.
HEALTH 11 (964) – Required		
2 Semesters – Every other day	Grades 11	.5 credit
The primary focus of this required Heal		
society today. It will also emphasize the	relationships between the	physical, mental-emotional and social
well-being.		
SAFETY EDUCATION (950) – Required		
2 Semesters – Every other day	Grades 10	.5 credit
The primary purpose of this Driver Educ		
and injuries occurring each year by prod	ucing competent, responsib	le, safety-oriented drivers.
TECHNOLOGY		

Note: Students must pay for project materials used in these courses. Advanced projects using above average amounts of material will require payment in advance. All shop bills must be paid in the semester in which the course is taken.

WOOD TECHNOLOGY I (804) – Elective

1 Semester – 5 periods/week	Grades 9 – 12	.5 credit
Students are taught about wood and	wood products and receive ins	struction in the safe use of hand tools
and power tools used in the wo	odworking field. Industrial	materials, visual communications,
manufacturing, and construction are	emphasized. This course prov	vides basic instruction in the areas of
project planning, materials billing, and	furniture construction and fir	ishing. Students are required to pass
safety examinations, performance te	ests, and quizzes measuring t	their knowledge of tools, machines,
machine processes, and materials.		
machine processes, and materials.		

WOOD TECHNOLOGY II (805) - Elective

1 Semester – 5 periods/week	Grades 9 – 12	.5 credit
Students receive a more complex kno	wledge of different types of	f wood and materials needed in fine
woodworking. This course will review	all machines within the lab,	and students will be required to pass
all safety and performance tests befo	re moving on to the final pro	ject. This course provides advanced

instruction on project planning, furniture construction, and finishing. The students will be able to choose their final project as a class. Students will also be taught fixture and jig design to aid in the manufacturing of their final project.

Prerequisite: Wood Technology I

DRAFTING / CAD II (810) - Elective

1 Semester – 5 periods/week	Grades 9 – 12	.5 credit

This class requires students to build on knowledge previously learned in Technical Drawing. Students will be introduced to advanced isometric and assembly drawing. Also, students will learn to create pattern development and sectional drawings. This course will also give a brief introduction to architecture and Auto CAD.

ROBOTICS I (820) - Elective

1 Semester – 5 periods/week	Grades 9 – 12	.5 credit
This course provides a basic but bro	bad introduction to the field of ro	obotics technology. Students master
the fundamentals of robotics and	the engineering design proces	ss while learning to use Autodesk [®]
Inventor [®] design software and the V	/EX Robotics Design System. The	laboratory component features basic
activities to solidify lecture conce	pts and team-oriented, hands-	on projects to solve basic robotics
problems. Students will be expose	d to the many facets of robotic	s including material from computer,
electrical, and mechanical discipline	es and will be better prepared fo	or college and careers in engineering
design, and robotics.		

ROBOTICS II (821) - Elective

(-)		
1 Semester – 5 periods/week	Grades 9 – 12	.5 credit
This course provides an advanced kr	nowledge of robotics and coding	used in Robotics 1. Students work
in teams to effectively solve advanc	ed problems using robots built	from Vex EDR robot kits. Students
program the robots to solve specific	challenges using the ROBTC soft	ware. Robots bring code to life and
allow students to see how what t	hey're learning has a direct im	npact in the real world, and how
individual math and engineering ele	ments come together to form a	solution to a real problem.
Prerequisite – Robotics I		
allow students to see how what t individual math and engineering ele	hey're learning has a direct in	npact in the real world, and how

TECHNOLOGY HELP DESK APPRENTICESHIP (710) - Elective

1 Semester - 5 periods/weekGrades 9 - 121 creditThis course provides hands-on support for the West Branch School District 1:1 Laptop Program.Student help desk apprentices will build meaningful technical knowledge and problem-solving skillswhile providing valuable support to their peers and staff. Under the guidance and supervision ofWest Branch IT staff, student help desk apprentices will provide technical consultation and service,perform hardware repairs, resolve software problems, develop art/graphics, design and code. Theywill also be given access Microsoft IT Academy. Where they will be required to complete one course.

INSTRUMENTAL MUSIC / CHORUS

SENIOR HIGH INSTRUMENTAL MUSIC (605) - Elective

2 Semesters – Every other day Grades 9 – 12 .5 credit

This course provides an advanced musical experience for students, with opportunities for performance both within and outside of the classroom. Students will explore basic music theory, history, and composition based upon their current individual level of achievement in band. The high school concert band will perform several times throughout the school year within the school district and surrounding communities. This class is also subject to travel and additional projects, including guest speakers/performances, masterclasses, workshops, and the like. Students enrolled in this ensemble may be required to commit time outside of normal school hours to participate in such events.

Co-curricular ensembles (marching and honors band) are not required parts of the course but are strongly advised, as students who participate in these ensembles receive additional opportunities that reduce the complexity of the normal classroom workload. The culmination of this class is at least two public concerts per year.

SENIOR HIGH CHORUS (607) – Elective

2 Semesters – Every other day	Grades 9 – 12	.5 credit
This is an advanced music course, with	n an emphasis on vocal perfo	rmance and choral singing. Students
will increase their awareness of all aspe	ects of choral singing, including	g: methods to provide a strong tonally
acceptable choral ensemble; and the t	echnique of polyphonic singir	g while a choral ensemble. Students
will be expected to perform in at least	two public concerts per scho	ol year as part of their mid-term and
final evaluations. Each student will be	evaluated on his or her individ	dual performance level.

GUITAR (610) - Elective

1 Semester - 5 periods/weekGrades 9 - 12.5 creditThis semester elective course is designed for the beginning guitar student. The course is taught in a
group setting with individual responsibilities. Focus will be on the application of beginning techniques,
such as: guitar set up/tuning, notation (including standard, chords, and tablature), and performing
techniques. Students will also develop an understanding of music fundamentals, theory, and various
styles of guitar-playing in regards to genre and style (classical, rock, jazz, etc.). Students with experience
are welcome to take this course and design an individual advancement track with the instructor.

MUSIC IN FILM (624) - Elective

1 Semester – 5 periods/week	Grades 10 – 12	.5 credit

This course will explore how we are exposed to music through film. The class will focus on the role music plays in film with an emphasis on the following:

- 1. Elements of Music in Film
- 2. Music and Film throughout from 1900
- 3. Music and Film Genres
- 4. The Evolution of the Musical

Students will be asked to analyze music and film examples in class. Supplemental reading and media resources may be used outside of class. Primary assessments will be class discussion and intensive writing-response assignments.

LANGUAGE ARTS

ENGLISH 9 (121A)Grades 91 credit2 Semesters – 5 periods/weekGrades 91 credit

This freshman course has five major components. These include research and writing, including a research paper in MLA format; study of novels and short stories, development of vocabulary; and the strengthening and improving of reading skills will be an added focus. In addition, students will study needed grammatical skills and will be required to apply those skills to all writing. The skills learned in all five areas are important to prepare for Keystone exams.

ENGLISH 9 (121)

2 Semesters - 5 periods/weekGrades 91 creditThis freshman course has four major components.These include research and writing, including a
research paper in MLA format; study of novels and short stories; and development of vocabulary.Also,
students will study needed grammatical skills and will be required to apply those skills to all writing.
The skills learned in all four areas are important to prepare for Keystone exams.

ENGLISH 10 (124)

2 Semesters – 5 periods/week	Grades 10	1 credit
This freshman course has four major co	mponents: literature-inc	luding novels and short stories, writing-
including research writing, grammar/	usage, and vocabulary.	Independent reading and extensive
writing will be required. Many assessm	nents will be in essay for	m. The skills learned are necessary for
better performance in English studies and	nd are the foundation ne	eded for continued advanced work and

Prerequisites: Students must meet two of the three prerequisites that follow: grade of 86% or above in English 8; teacher recommendation; score of advanced/proficient on related standardized tests. (Weighted multiplier of 1.04)

ENGLISH 10 (124A)

preparation for the Keystone exams.

2 Semesters - 5 periods/weekGrades 101 creditEnglish 10 will emphasize a variety of literature, including nonfiction, short fiction, the novel, and
drama. A strong emphasis will be placed on the five paragraph essay and will consist of both
argumentative and narrative writing. A focus on the basics of research writing and MLA format will be
taught. Students will review grammatical and stylistic skills and apply those to writing. The course will
also focus on strengthening and improving reading skills. This course is designed for students who will
either attend some type of post-secondary school or begin to work after graduation.

The Keystone Exam is given at the end of this course.

 ADVANCED ENGLISH 10 (123)

 2 Semesters - 5 periods/week
 Grades 10
 1 credit

 Advanced English 10 will emphasize the study of a diversity of literature from the Victorian age to the Vietnam War, including nonfiction pieces and drama. Most assessment will be done through essay.

 Additional writing assignments will be narrative/creative/argumentative; both literary analysis and a research paper in MLA format will be included in the course. Students will revise and edit writing using

high-level grammatical skills and an advanced stylistic level which will be taught in class. This course is designed for the college-bound student.

Prerequisites: Students must meet two of the three prerequisites that follow: grade of 86% or above in Advanced English 9/grade of 93% or above in general English 9; teacher recommendation; scores of advanced/proficient on related standardized tests.

(Weighted multiplier of 1.04)

The Keystone Exam is given at the end of this course.

ADVANCED COMPOSITION A (131G)

1 Semester – 5 periods/week	Grades 11 – 12	.5 credit

Advanced Composition A is the first in the series for students wishing to earn college credit through Penn Highlands Community College. Section A focuses on various styles and types of writing. Students will write problem/solution, narrative, research, argumentative, expository, and analytical essays. This is a writing intensive course. Students will study high-level grammatical and stylistic skills, and apply those skills to writing. This course is designed for college-bound students with a strong background in English.

(Weighted multiplier of 1.08)

This course can be taken for Penn Highlands Community College credit. Students will need to complete A and B in order to receive college credit.

ADVANCED COMPOSITION B (131F)

Advanced Composition B is the second in the series for the students wishing to earn college credit through Penn Highlands Community College. Section B focuses on English and European literature through the 20th century. Extensive reading is required. Assessments and exams are predominately essays and Socratic seminars. This course is designed for the college-bound student with a strong background in English.

(Weighted multiplier of 1.08)

This course can be taken for Penn Highlands Community College credit. Students will need to complete A and B in order to receive college credit.

CREATIVE WRITING (133) - Elective

1 Semester – 5 periods/week	Grades 11 – 12	.5 credit

Creative Writing is a course designed to strengthen students' skills and knowledge in writing creative works of nonfiction, fiction, poetry, and dramatic forms. Students will be exposed to a variety of genres, authors, and styles through reading, discussion and analysis. Students will discover their own literary voice and learn to appreciate the voice of others while learning how to give and take constructive criticism and make appropriate revisions to their writing. Students will create a final portfolio of their own creative writing pieces.

CONTEMPORARY LITERATURE YA (146) - Elective

1 Semester – 5 periods/week	Grades 11 – 12	

Contemporary Literature will focus on high-interest young adult (YA) novels written in the past 30 years. Students will be able to compare and contrast themes, analyze text and illustrations, and make connections among the various types of texts. The course will predominantly use novels supplemented with short fiction, poetry, and some nonfiction. Student choice, literary circles, and reading groups will be a strong component of the class. Students will be evaluated on their ability to discuss, analyze, and communicate the themes and ideas of the novels.

5 credit

CAREER WRITING (143) – MANDATORY

1 Semester – 5 periods/week	Grades 11 – 12	.5 credit
All students will be required to comple	te the Career Writing course b	efore graduation. This class will
focus on the areas of career readiness.	Students will create a career	research project, learn interview
skills, email etiquette, technical writing	g such as business letters and p	roposals, as well as write a resume,
cover letter, and complete a college or	· job application. Students will	also be assigned as an e-Mentor for
career understanding and will take par	t in mock interviews.	

PUBLIC SPEAKING (113A) - Elective

1 Semester – 5 periods/week G	Grades 11 – 12	.5 credit
-------------------------------	----------------	-----------

This course is developed to assist the students in improving both public speaking and listening skills, which incorporates the necessary communication skills needed in the workforce. Students will identify, acquire, and utilize the fundamentals of public speaking through various activities and speeches including impromptu, demonstrative, persuasive, entertaining, and debate to mention a few. This course is also developed to help prepare students for the various writing assessments they may encounter at the college level including demonstrative, persuasive, reflective, narrative, analysis, and research to mention a few. Also, revision and editing strategies will be provided through grammar minilessons to help students improve their own style of writing.

(Weighted multiplier of 1.08)

This course is available for credits from Penn Highlands College and is a weighted course.

JOURNALISM (110A) - Elective

1 Semester – 5 periods/week	Grades 11 – 12	.5 credit
-----------------------------	----------------	-----------

Journalism consists of three areas: journalism and broadcasting, photography, and graphic design. Students will learn the style of journalistic writing while contributing to the digital school newspaper (Warrior Watch). Students will also learn to write broadcast scripts while contributing to WBTV. The class will offer a variety of assignments and will be structured around student-choice. Students can learn photography, broadcasting, technology, and graphic design skills through different mediums of journalism (broadcast=WBTV, print=Warrior Watch and Warrior Yearbook).

INTRODUCTION TO DRAMA/THEATRE (144) - Elective

1 Semester – 5 periods/week Grades 11 – 12 .5 cr	edit
--	------

Introduction to Drama/Theatre is a course designed to strengthen and enhance skills in various aspects of acting including development of imaginative skills, movement, voice, ensemble work/team work, scene analysis, character development and emotional truth, improvisational, performance and audition skills. Students in this course are strongly encouraged to take part in the school's theatrical productions. Students will also read and analyze dramatic literary works.

FOREIGN LANGUAGES

SPANISH I (510) – Elective

2 Semesters – 5 periods/week	Grades 9 – 12	1 credit

Essential Spanish grammar is taught in order to give the student the foundation needed for basic conversation. Much time is spent speaking, listening and reading the language. The Emphasis is placed on

oral proficiency. Beginning basic survival vocabulary is taught. Discussion and written assignments for cultural awareness are also part of this course of study.

SPANISH II (511) – Elective						
2 Semesters – 5 periods/week	Grades 10 – 12	1 credit				
Class time is spent in participating in oral c						
oral skills. A portion of class also concentrates on developing better writing techniques. Activities dealing						
with listening, reading, and culture are ad						
Prerequisite: Spanish I						
SPANISH III (512) – Elective						
2 Semesters – 5 periods/week	Grades 11 – 12	1 credit				
The goals of this class are to further stud	y the Spanish language i	n a more in-depth manner. Perfecting				
speaking and pronunciation skills and deve	eloping guided and expre	ssive writing skills are a major emphasis				
in addition to listening and reading skills a	along with cultural discus	ssions. Much of this course is taught in				
Spanish.						
Prerequisite: Spanish II						
SPANISH IV (513) – Elective						
2 Semesters – 5 periods/week	Grades 12	1 credit				
The majority of this course is taught in Spa						
speaking skills involving critical thinking. St	-					
by studying the grammar and vocabulary						
study Spanish literature. Further activities	will be added to enrich t	he students at this advanced level.				
Prerequisite: Spanish III						
LATINI (521) Online Only Floring						
LATIN I (521) – Online Only – Elective	Grades 9 – 12	1 aradit				
2 Semesters		1 credit				
Latin I is a comprehensive and engaging i						
Latin alphabet and numbers, students students	•					
students have a foundation in the study		ligage in Latin conversation, and have				
built a solid foundation for further Latin	language study.					
* Available via CIOLA						
LATIN II (524) – Online Only – Elective						
2 Semesters	Grades 9 – 12	1 credit				
This second-level Latin course takes a hist						
events and historical figures. By the end						
and appreciation for the Latin culture an						
* Available via CIOLA	u languager					
Prerequisite: Latin I						
MATHEMATICS						

ALGEBRA IB (435)		
2 Semesters – 5 periods/week	Grades 9	1 credit

The course will involve review and application of sets of numbers, algebraic properties, solving equations, (1st degree, 2nd degree) solving. Inequalities, systems of equations, factoring, graphing, polynomials, volume and surface area, word problems, percent problems, and rational expressions will be explored and further investigate those concepts introduced in Algebra 1A. The Pennsylvania State Common Core Curriculum will guide the pace throughout the year.

Prerequisite: Algebra 1A

The Keystone Exam is given at the end of this course.

GEOMETRY (431)

2 Semesters – 5 periods/week	Grades 9 – 12	1 credit
2 Jennesters – J perious/week		1 creat

This course introduces the ideas and concepts of geometry through definitions, theorems, and postulates. Geometry maintains the knowledge of algebra and its application to geometry. Teaches logical and deductive thinking to be used to write proofs and solve problems. The course content is established by *Keystone Exams: Geometry Assessment Anchors and Eligible Content,* published by the Pennsylvania Department of Education in January 2013.

Prerequisite: Algebra II or teacher recommendation

ALGEBRA II (421)

2 Semesters – 5 periods/week	Grades 10 – 12	1 credit
This course extends the principles a	and concepts from Algebra 1 to t	he realm of non-linear functions. In
addition to developing numeric and	l algebraic skills, emphasis will be	e given to the concepts of modeling,
applications, and problem solving.	The course content is establish	hed by Keystone Exams: Algebra II
Assessment Anchors and Eligible C	content, published by the Pennsy	ylvania Department of Education in
January 2013.		

Prerequisite: Algebra IB

PRE-CALCULUS (410)

2 Semesters - 5 periods/weekGrades 11 - 121 creditThis course is designed to cover concepts formerly covered in College Algebra and Trigonometry,
namely basic right-angle trigonometry, unit circle, trig identities, and extensions of algebra concepts
learned in Algebra II.1 credit

Prerequisite: Geometry and Algebra II (Weighted multiplier of 1.04)

CALCULUS I (451)

2 Semesters – 5 periods/week	Grades 11 – 12	1 credit
------------------------------	----------------	----------

This is a strenuous course which covers an intense review of college-level algebra, limits, derivatives, and integrals. Students thinking of majors that require calculus should take this.

Prerequisite: Pre-Calculus

(Weighted multiplier of 1.08)

This course is available for credits from Penn Highlands College and is a weighted course.

CONSUMER MATH (411)

2 Semesters – 5 periods/week Grades 11 (CTC only) & 12 1 credit

This course will prepare them for adult life, including wages and earnings, taxes, savings and checking accounts, consumer loans, credit, and budgeting.

Prerequisite: Senior student who has not had Calculus I.

PROBABILITY AND STATISTICS (417)

2 Semesters – 5 periods/week Grades 11 – 12 1 credit

This course will cover statistical measures, data organization, representation, and analysis, concepts of probability and outcomes, and evaluation inferences and predictions based on data displays. **Prerequisite:** Geometry and Algebra II

SCIENCE

SCIENCE 9 (303)

2 Semesters - 5 periods/weekGrades 91 creditScience 9 is designed as an option to fulfill the one credit science requirements for ninth grade students.
The first semester focuses on introductory chemistry and how it relates to biology concepts. The second
semester focuses on earth science, and how it relates to biology concepts. Hands-on activities are central
to this course and are used to help link the topics to everyday life.

ADVANCED BIOLOGY 9 with LAB (339)

2 Semesters – 5 periods/week + lab period every other day Grades 9 1.5 credit This advanced course will focus on cell structure and function, biochemistry, bioenergetics, homeostasis and transport, cell growth and reproduction, genetics and heredity, DNA structure, ecology and evolution, and classification. The course includes a laboratory biology period, which provides students with a variety of laboratory work to introduce or reinforce biological principles. The laboratory experience will also emphasize the use of laboratory techniques and critical thinking skills.

Prerequisite: Science 8 Grade > 92% and teacher recommendation

(Weighted: multiplier of 1.04)

The Keystone Exam is given at the end of this course.

BIOLOGY 10 (304)

2 Semesters - 5 periods/weekGrades 101.0 creditThis course will focus on life processes, biochemistry, ecology, cell structure and function, DNA structure,
genetics and heredity, evolution, and classification. Course incorporates hands-on laboratory
investigations as a part of instruction. These activities supplement information learned in each chapter
and reinforce biological principles.

Prerequisite: Science 9

The Keystone Exam is given at the end of this course.

ORGANIC CHEMISTRY (297)

1 Semester - 5 periods/week + lab period every other dayGrades 11 - 12.5 creditOrganic chemistry is the study of the chemistry of compounds from living organisms. DNA, proteins, foods,
and medicines are all organic compounds. Anyone interested in pharmaceutical or health occupations
should consider this course. Also, those interested in the sciences, especially chemistry, may enjoy this
course.

Prerequisite: Chemistry

CHEMISTRY I with LAB (307)

2 Semesters – 5 periods/week + lab period every other day Grades 10 - 12 1.5 credit This course follows a logical, sequential development of chemistry principles. The course begins with the "mechanics" of chemistry (structure & properties of matter), bonding, the mole concept, stoichiometry, reactions. The course includes a laboratory chemistry period, which provides students with a variety of laboratory work and analysis to introduce or reinforce their discovery of chemistry principles. The laboratory experience will also emphasize the use of laboratory techniques and technology to solve scientific problems. Chemistry I is designed to fulfill the science credit requirement during the academic year following Biology. This course will also focus on development of skills for students intending to enroll in a post-secondary programs/college.

Prerequisite: Biology, Algebra I

HONORS CHEMISTRY II (340)

2 Semesters – 5 periods/week + lab period every other day	Grades 11 – 12	1.5 credit
Chemistry II is a college preparatory course designed for the	student intending to	enroll in a four-year
university/college. The semester begins with a deeper explorat	ion of many topics cov	vered in Chemistry I.
As the year continues, topics such as thermochemistry, solution	n chemistry, kinetics,	oxidation-reduction,
and electrochemistry will be covered. The course is recommend	ed for students who w	ish to pursue careers
in the chemistry, health/medical, and engineering fields as w	ell as those intereste	d in earning college
credits in a science. It is also recommended for students intere	sted in earning college	credits in a science.

This course is available for credits from Penn Highlands College and is a weighted course. **Prerequisite:** Algebra I and Chemistry (Weighted: multiplier of 1.08)

ECOLOGY (330)

2 Semesters	Grades 11 – 12	1 credit
This course will focus on the stu	udy of the relationships of living	things to each other and their
environment. Topics include basic	principles of ecology, energy flow	through the biosphere, cycles of
matter, the exploration of vario	us biomes, interactions in ecosys	stems, ecology of communities,
population dynamics, and human i	mpact on the environment.	
Prerequisite: Biology		

HUMAN BIOLOGY (313)

2 Semesters	Grades 11 – 12	1 credit
This course focuses on biological t	opics as they relate to the human or	ganism, including the anatomy and
functions of the human body. The	course begins with the 6 kingdoms of	f classification and the evolutionary
relationships between organisms	in those kingdoms. The course the	en transitions to animal behaviors,
concentrating on mammalian beha	aviors. The second semester is an ove	erview of the systems of the human
body, including the integumentary	y, skeletal, muscular, cardiovascular, I	respiratory, nervous, and digestive
systems.		

EARTH AND SPACE SCIENCE (323)

z seme	Semesters			Grades 11 – 12			1 credit		

This course includes a study of the stars, planets, and galaxies, as well as earth process, which results in rocks, minerals, earthquakes, and volcanoes. The reading, creating, and navigating by topography are embedded in the course material. Discussion of the processes that impact the movement of materials in the oceans and atmosphere are discussed. Also, factors which impact the climate and weather patterns on Earth are discussed at length.

Prerequisite: Biology

HONORS PHYSICS I (309)

2 Semesters – 5 periods/week + lab period every other day Gra	rades 11 – 12 1	.5 credit
---	-----------------	-----------

Physics is an academic course designed for the science oriented, college bound student. In this course, students learn problem-solving skills in the areas of mechanics, energy, thermodynamics, vibrations, and wave motions. Physics I is considered an honors level course and receives a multiplier of 1.08. **Prerequisites:** Chemistry, Pre-Calculus (Weighted: multiplier of 1.08)

HONORS ANATOMY (318)

2 Semesters	Grades 11 – 12	1 credit
The course centers on the structure	and function of the human	body. Mammalian dissection and
appropriate laboratory activities are	incorporated into the course	. This course is recommended for
students interested in careers in the m	edical field. This course is not o	ffered to students that have already
completed Human Biology.		
Prerequisite: Biology and Chemistry,	93% or above in biology.	

(Weighted: multiplier of 1.08)

STEAM (Science, Technology, Engineering, Arts, and Math) EXPLORATION (341)

2 Semesters	 -	-	Grades 9 – 12	.5 credit
z semesters			Graues 9 – 12	.5 creuit

This course will integrate the STEM fields of science, technology, engineering and mathematics through project-based learning opportunities. Creativity and collaboration will be encouraged as students are challenged to explore real-world issues and propose real-world solutions through hands-on inquiry and open-ended exploration. Students will be required to draw upon their knowledge, collaborate with peers, and apply their own creative process to find solutions to the challenge given. Themed units will focus on Design & Modeling, Data Collection & Analysis, Prototype & Redesign, the Engineering & Design Process. **Prerequisite:** Algebra 1B

FORENSICS (342)

2 SemestersGrades 11 – 12.5 creditA crime scene investigator routinely uses science as an aid to solving crimes. The science of analyzing crimescene evidence is called forensic science. This class will explore some of these scientific techniques used in
a crime scene investigation. Forensic techniques studied will include document analysis, drug & poison
identification, fingerprinting, and DNA fingerprinting, as well as, other analysis techniques.Prerequisite: Biology

SOCIAL STUDIES

AMERICAN HISTORY 9 (208)

2 Semesters	Grades 9	1 credit
American History 9 explores the de	evelopment of America and the Unit	ed States from early history when
people arrived in North America u	up through the era of Reconstructio	n. This course will help students
understand the relevance of partie	cular events in history as they affect	ed social, economic, and political
aspects of the country. This is	a basic course designed for stude	ents looking to meet graduation
requirements or who do not want	to pursue an emphasis on social stu	idies. The outcome of the course
is to promote critical thinking and	to teach students how to become b	petter decision-makers. A variety
of instructional techniques and as	sessments will be employed throug	hout each unit.

ADVANCED AMERICAN HISTORY 9 (220)

2 Semesters	Grades 9	1 credit
American History 9 explores the d	levelopment of America and the Unite	ed States from early history when
people arrived in North America	up through the era of Reconstructio	n. This course will help students
understand the relevance of parti	icular events in history as they affect	ed social, economic, and political
aspects of the country. This court	rse is designed for students looking	for an academic challenge or for
those who have a strong interest	t in social studies. The course provid	es a more rigorous and in-depth
study of the topics covered. High	ner-level thinking skills, including ana	lysis and evaluation, are stressed
along with a greater emphasis of	on reading and writing. A variety	of instructional techniques and
assessments will be employed the	roughout each unit. Students wishir	ng to pursue advanced courses in
their sophomore year are strong	y advised to take this course.	
Prerequisite: Civics Grade 93% o	r higher	
(M_{1}) = $[m_{1}]$ = $[m_{2}]$ = $[m_{1}]$ = $[m_{2}]$ = $[m_{1}]$ = $[m_{1}]$ = $[m_{1}]$ = $[m_{1}]$		

(Weighted multiplier of 1.04)

UNITED STATES HISTORY 10 (214)

2 Semesters	Grades 10	1 credit
United States History 10 traces	the development of social, econo	omic, and political factors which
affected American history from s	settling the West to the end of the	Second World War. This course
helps students understand the rel	evance of history by showing them h	now people and events of the past
connect to the present. This is	a basic course designed for stude	ents looking to meet graduation
requirements or who do not want	t to pursue an emphasis on social stι	udies. The outcome of the course
is to promote critical thinking a	nd to teach students how to becor	me better decision-makers. The

instructor will use a variety of instructional techniques and assessments. Students will also be expected

to prepare projects for various units covered throughout the school year. **Prerequisite:** United States History 9 or Advanced United States History 9 < 90%

WORLD CULTURES (211)

2 Semesters	Grades 11	1 credit
The course is a geographical study	of different social groups in a chronc	ological setting. Students will study
important leaders, historical events	s, world religions, and contributions	of societies and their relationships
on a global approach.		

ADVANCED WORLD CULTURES (212)

2 Semesters	Grades 11	1 credit
The course is a geographical study of	of different social groups in a chro	onological setting. Students will study
important leaders, historical event	s and contributions of societies	and their relationships on a global
approach.		

Prerequisite: Advanced United States History Grade > 90% or United States History > 93% (Weighted multiplier of 1.04)

ADVANCED UNITED STATES HISTORY 10 (219)

2 Semesters	Grades 10	1 credit
United States History 10 traces the	ne development of social, econom	ic, and political factors which
affected American history from set	tling the West to the end of the So	econd World War. This course
helps students understand the relev	ance of history by showing them ho	w people and events of the past
connect to the present. This section	is designed for students looking for	an academic challenge or those

connect to the present. This section is designed for students looking for an academic challenge or those students with a strong interest in social studies. This course provides a more rigorous and in-depth look at the topics covered. The instructor will stress higher-level thinking skills including synthesis, analysis and evaluation of historical events with a greater emphasis on reading and writing. In addition,

students will be expected to prepare projects for various units covered throughout the school year. Students wishing to pursue advanced courses in their junior and senior years are strongly advised to take this course.

Prerequisite: United States History 9 with a grade > 93% or Advanced United States History 9 > 90% (Weighted multiplier of 1.04)

UNITED STATES HISTORY 12 (291) - Required, unless student already passed US I & II course2 SemestersGrades 121 credit

This is a basic course designed for students looking to meet graduation requirements. The outcome of the course is to promote critical thinking and to teach students how to become better decision-makers. The instructor will use a variety of instructional techniques and assessments.

PSYCHOLOGY (216) – Elective

1 Semester - 5 periods/weekGrades 10 - 12.5 creditStudents will be introduced to psychology. They will learn about body and mind, learning and cognition,
development, personality, health and adjustment, and social psychology..5 credit

LAW RELATED EDUCATION (206) – Elective

1 Semester – 5 periods/week	Grades 9 – 12	.5 credit
Students will study legal terminology,	concepts, and procedures	and apply them to real-world
situations. The course will focus on the h	istorical development of the	American legal system to modern
civil and criminal situations.		

SOCIOLOGY AND YOU (250) - Elective

1 Semester – 5 periods/week	Grades 9 – 12	.5 credit
Sociology is the study of human relat	ionships. It is concerned with	how people behave in groups and
how group interaction shapes individu	ual behavior. Units of study w	ill include Introduction to Sociology,
Research in Sociology, Culture, Sociali	zation, Social Structure, Devi	ance and Social Control, Inequalities
in Race, Ethnicity and Gender Stratific	cation. The subject material	will be applied to real life situations
to enhance the students understandi	ng of sociology at work. The	students in this course will prepare
projects for a variety of the units of st	udy covered during the cours	se.

INTRODUCTION TO SOCIOLOGY (251) - Elective

2 Semesters	Grades 11 – 12	1 credit

This is a challenging course that is meant to be the equivalent of a freshmen college course. Sociology is the study of human relationships. It is concerned with how people behave in groups and how group interaction shapes individual behavior. This a year-long introductory course that will familiarize the student with the basic principles and theories associated with sociology. It will prepare students to look critically at a variety of social issues. Critical thinking is emphasized as students are provided thought provoking opportunities in challenging them to examine their diverse world. The objective of this course is for the student to be able to understand and apply basic theories and perspectives of an entry-level course. This course is designed to enable students to do so through classroom lectures, critical thinking exercises that require application, an entry-level research paper, utilization of study guides, videos, worldwide web assignments, outside reading and writing assignments. Daily participation in class discussion is required. Ample opportunity will be given for students to focus on areas of individual interest. Areas of study: *Perspectives, Theories & Methods, Culture, Socialization,*

Social Interactions, Groups & Organizations, Deviance, Social Stratification, Gender Stratification, Race & Ethnicity, Family & Religion, and Population, Urbanization & the Environment **Prerequisite:** Prior History Grade > 93%. Class size may be limited and students are admitted based on

previous grades and teacher recommendations.

(Weighted multiplier of 1.08)

This course is available for credits from Penn Highlands College and is a weighted course.

PENNSYLVANIA HISTORY (218) – Elective

1 Semester - 5 periods/weekGrades 9 - 12.5 creditStudents will study the founding and development of Pennsylvania. Students will learn how our
commonwealth developed government, industry, agriculture, and commerce, to become the great
commonwealth we are today.

CURRENT ISSUES (207) - Elective

1 Semester - 5 periods/weekGrades 10 - 12.5 creditStudents will develop an awareness of present-day political, social, and cultural difficulties that face the

United States and the world by investigating and analyzing present-day issues and events that occur during the course of the semester. Students will make use of class discussions, interpretive accounts of news, assigned readings for debate and discussion, and a mixture of standard tests, short research projects, and other student-oriented assessments. In lieu of textbooks, various other forms of media will be used to gather news and information.

**This class can be taken two times but not in consecutive semesters.

AMERICAN POP CULTURE (253) – Elective

1 Semester – 5 periods/week	Grades 9 – 12	.5 credit

This course is an exploration of the 20th into the 21st centuries through the use of American popular culture. Various themes will be examined for the items that helped shape its respective cultural identity. These include: film and theater, food and drink, music, print media, sports and games, fashion and fads, television, and radio. By doing so, this class will teach us who we are, what we were, and where we are going.

UNITED STATES HISTORY I AND II (215) – Elective

2 Semesters – 5 periods/week	Grades 11 – 12	1 credit
------------------------------	----------------	----------

This is a challenging course that is meant to be the equivalent of a freshmen college course. It is a yearlong survey of American history for the age of exploration and discovery to the present. The analytical thinking, writing and reading skills that students develop in United States History I and II will equip students for college and lifelong learning. Because this course is similar to a first-year college course, students should expect that the workload would be heavier than most regular high school history courses. Emphasis is placed on critical and evaluative thinking skills, essay writing, interpretation of original documents and historiography.

Prerequisite: *Prior History Grade > 93%. Class size may be limited and students are admitted based on previous grades and teacher recommendations.*

(Weighted multiplier of 1.08)

This course is available for credits from Penn Highlands College and is a weighted course.

WARRIOR WATCH – CURRENT EVENTS WEBSITE PRODUCTION (293) – Elective			
2 Semesters – 5 periods/week	Grades 9 – 12	1 credit	

The *Warrior Watch* is a fun, hands-on, real-world class dedicated to producing a fully functioning news and information website. It is designed to give students basic understanding of journalism and newspaper writing techniques. Skills taught will be an analysis of current events, writing, editing, interviewing, and photography. If you like to write and take pictures, work with people and tell stories, this class is for you. This class will meet one period a day and is open to students in grades 9-12 who meet the following prerequisites: a 90% English average from the previous year, a recommendation from your English teacher, and an article sample submitted to <u>warriorwatch@westbranch.org</u> on any topic of your choice.

INDEPENDENT STUDY - (number is assigned according to the subject area)

2 Semesters	Grades 11 – 12	Credit could vary
The Independent Studies program	offers an opportunity for a study	y of topics not offered in the regular
curriculum or fills the gap for a cou	rse that the student is unable to	schedule. Students, in partnership
with a teacher, design a course of	study that both fits their inter	rests and meets the standards of a
regular elective course. This is done	for special circumstances and o	nly in combination of administrative
and teacher consent.		

ONLINE COURSES

CRIMINOLOGY: INSIDE THE CRIMINAL MIND (0002)Grades 9 – 12.5 creditCrime and deviant behavior rank at or near the top of many people's concerns. This course looks at
possible explanations for crime from the standpoint of psychological, biological, and sociological
perspectives, explore the categories and social consequences of crime, and investigate how the criminal
justice system handles not only criminals, but also their crimes. Why do some individuals commit crimes
and others do not? What aspects in our culture and society promote crime and deviance? Why are
different punishments given for the same crime? What factors shape the criminal case process?* Available via Plato Courseware and EdOptions Academy

PERSONAL AND FAMILY FINANCE (0004)

Grades 9 – 12 .5 credit

How do personal financial habits affect students' financial futures? How can they make smart decisions with money in the areas of saving, spending, and investing? This course introduces students to basic financial habits such as setting financial goals, budgeting, and creating financial plans. Students learn about topics such as taxation, financial institutions, credit, and money management. The course also addresses how occupations and educational choices can influence personal financial planning, and how individuals can protect themselves from identity theft.

* Available via Plato Courseware and EdOptions Academy

ACT PREP (0005)

Grades 11 – 12 .5 credit

The ACT assesses high school students' general educational development and their ability to complete college-level work. Courses: ACT English ACT Mathematics ACT Reading ACT Science Reasoning * Available via Plato Courseware and EdOptions Academy

SAT PREP (O006)

Grades 11 – 12 .5 credit

The SAT assesses academic readiness for college. It keeps pace with what colleges are looking for today, measuring the skills required for success in the 21st century. Courses: SAT I Language Arts SAT I Mathematics * Available via Plato Courseware and EdOptions Academy

REAL WORLD PARENTING (0007)

Grades 9 – 12 .5 credit

What is the best way to care for children and teach them self-confidence and a sense of responsibility? Parenting involves more than having a child and providing food and shelter. Students learn what to prepare for, what to expect, and what vital steps parents can take to create the best environment for their children. Parenting roles and responsibilities, nurturing and protective environments for children, positive parenting strategies, and effective communication in parent/child relationships are other topics covered in this course.

* Available via Plato Courseware and EdOptions Academy.

CLEARFIELD COUNTY CAREER AND TECHNOLOGY CENTER

INTRODUCTION

The Clearfield County Career and Technology Center offers career-oriented, multiyear sequences of courses that integrate core academic knowledge with technical and occupational knowledge to provide the students with pathways to postsecondary education and careers. Knowledge is gained through theory lessons, state-of-the-art labs, on-the-job training, and industry certification obtainment. Our programs of study provide a wide range of learning experiences reaching career clusters in manufacturing, food production, building construction, business, healthcare, hospitality, and transportation.

Education in a career and technical education school offers a lifetime of opportunity and economic stability. Our mission is to train students for the workforce with an education that gives them an opportunity to grow.

PARTICIPATING SCHOOLS

Clearfield Alliance	Clearfield Area	Curwensville
Moshannon Valley	Philipsburg-Osceola	Soaring Heights
	West Branch	

ORGANIZATIONS

NTHS (National Technical Honor Society)

The NTHS is an organization dedicated to the ideals of honesty, service, leadership, and skill development among America's future workforce. To be considered for membership, students must achieve a 93% GPA in their program area at CCCTC and an 85% GPA at their high school. Prospective members must also have a 95% attendance rate. Students are nominated for NTHS membership by their program instructors. Nominated students who meet the highest standards in each of the identified areas are recommended for induction.

Skills USA

Skills USA is a student organization at CCCTC. With more than 280,000 student and instructor members nation-wide, Skills USA is an applied method of instruction designed to prepare America's high performance workers in career and technical programs. The organization provides quality education experiences for students in areas including leadership, teamwork, citizenship and character development. Skills USA builds and reinforces self-confidence, work attitudes and communication skills. Members are

encouraged to develop into total quality workers and individuals with the highest ethical standards, superior work skills, commitment to life-long education and pride in their work. Skills USA members are also encouraged to support the local community with community service projects. CCCTC Skills USA members compete in their program studies at a district, state, and national level at competitions.

NOCTI (National Occupational Competency Testing Institute)

NOCTI is the end-of-the-year skills assessment required to be taken by all program completers. The class of 2015 had a pass rate of 92% and those completers received the Pennsylvania's skills certificate and are eligible for Free Soar College Credits.

SOAR (Students Occupationally and Academically Ready)

Students who enroll at CCCTC in a Program of Study may qualify for several free college credits in their major at participating colleges across Pennsylvania. To qualify for SOAR college credits, students must be enrolled in a program of study and pass their NOCTI exam at the end of the two (2) year program.

PROGRAMS OF STUDY

Auto Mechanics Technology	CIP Code 47.0604	2 year program
The Automotive Mechanics Technolog	y Program prepares students for	careers as automotive
technicians and service personnel or post	-secondary education. The program	includes instruction in the
automotive engine, automotive engine	systems, lubrication, cooling, fuel	, exhaust, electrical and
electronics systems, and emission systems, drive trains, chassis systems, and auxiliary systems.		

Students can earn college credits through dual enrollment with Penn College and can earn SOAR College Credits.

Students can earn the following certifications: NOCTI Certificate, OSHA Certification, 900 Hours of Instructions Certificate, PA Auto Inspections Certificate, MACS 609A AC Card.

Carpentry and Building Construction	CIP Code 46.0201	2 year program
The Carpentry and Building Construction	Technology Program prepa	res students for careers in
residential and light commercial construction		
secondary institution. The program provide	, ,	•
construction power equipment. Areas of	instruction include, site sele	ection and building permits,
foundations and forms, floor framing, wall	framing, roof framing, and ro	of coverings, exterior finish,
insulation and interior finish.		

Students can earn college credits through dual enrollment with Penn College and can earn SOAR College Credits.

Students can earn the following certifications: NOCTI Certificate, OSHA Certification, 900 Hours of Instructions Certificate.

Collision Repair Technology	CIP Code 47.0603	2 year program
The Collision Repair Technology Pr	ogram provides students with the	skills, knowledge, motivation, and
work ethic to begin working in ent	ry-level collision repair positions o	r to continue education at a post-

secondary institution. The main components of the program are appropriate use of hand and power tools, welding, minor body repairs, and interior trim and upholstery. Students study major body repairs, glass door service, electrical systems, refinishing, and cost estimating. Students are also instructed on frame equipment, front-end alignment, and computer training.

Students can earn college credits through dual enrollment with Penn College and can earn SOAR College Credits.

Students can earn the following certifications: NOCTI Certificate, OSHA Certification, 900 Hours of Instruction Certificate, PA State Inspection License, ICAR Certification, and ASE Student Certification.

Cooperative Education / Diversified Occupations CIP Code 32.0105 1 year program This program is for seniors only. Co-Op/DO combines classroom instruction with workplace experience; the Diversified Occupations program provides a cooperative arrangement between the school and employers where the student receives general education instruction in the school and on-the job training through at least 15 hours of employment in business/industry. CAPSTONE: Think of this as the finishing touch to the CCCTC program the student is already involved in. This experience gives the student the chance to go to work instead of attending CCCTC class. The students "cap off" their inschool training with related job experience at an approved training site.

DIVERSIFIED OCCUPATIONS (D.O.) A training opportunity for a student that is not already attending the CCCTC. This experience gives the student a chance to receive credit toward graduation while working part of the school day. The student gains work experience in a career area that they have an interest in but is not offered at CCCTC. 4 Easy Steps to apply...Step 1. Be employed at a job with at least 15 hours a week. Step 2. Get a Co-Op Enrollment Application from you high school counselor. Step 3. Complete Application. Step 4. Return Application to CCCTC Co-Op Coordinator. Co-Op/Do Applications can occur at ANY time and be added at any time during the senior year. Students can earn the following certifications: NOCTI Certificate, OSHA Certification, and 450 Hours of Instruction Certificate.

CosmetologyCIP Code 12.04013 year programA career opportunity in cosmetology has endless benefits. You can do anything from working in a salon
to owning your own day spa! This fulltime, daytime course prepares you for the PA State Board of
Cosmetology exam. Topics included in this course include but are not limited to: Spa Treatments, Color
Analysis, Advanced Skin Care, Haircutting and Styling, Permanent Waving, Hair Coloring and
Highlighting, Manicures and Pedicures, Scalp Treatments, Hair Straightening, Facials, Safety, and
Sanitation and Disinfection.

Students can earn seven college credits from Pennsylvania Highlands and can also earn the following certifications: NOCTI Certificate, OSHA Certification, 1250 Hours of Instructions Certificate, and PA Cosmetology License (additional cost).

Culinary Arts & Food Management	CIP Code 12.0508	2 year program
---------------------------------	------------------	----------------

The Culinary Arts and Food Management Program prepares students for careers in food production, baking, and restaurant services, or for continuing education at a post-secondary institution. In the production area, instruction is provided on the basics of food preparation including, but not limited to, salads, sandwiches, soups, sauces, meats, and vegetable cookery. In baking, instruction includes breads, cakes, cookies, pies, choux paste and other specialty desserts, and cake decorating. In the

restaurant services component, students are taught how to greet, serve, and prepare food for the customer in a restaurant laboratory setting. Emphasis in the second year of the program is placed on safety and sanitation. Students receive classroom theory and laboratory experience using the latest methods and techniques.

Students can earn college credits through dual enrollment with Penn College and can earn SOAR College Credits. Culinary has a 1:1 articulation agreement with Pittsburgh Technical Institute for 8 college credits.

Students can earn the following certifications: NOCTI Certificate, OSHA Certification, 900 Hours of Instructions Certificate, and ServSafe Certification.

Diesel Equipment Maintenance	CIP Code 47.0613	2 year program

The Diesel Equipment Maintenance and Repair Technology Program prepares students for careers in the diesel field as a mechanic's helper or for continuing education at a post-secondary institution. The program starts with principles of internal combustion engines and the differences between gas and diesel. Students learn about the electronics, transmissions, differentials, brakes and air systems, and will ultimately overhaul different diesel engines.

Students can earn college credits through dual enrollment with Penn College and can earn SOAR College Credits.

Students can earn the following certifications: NOCTI Certificate, OSHA Certification, 900 Hours of Instructions Certificate, PA Auto Inspection and a Class A and B CDL (additional cost).

Digital Media Arts CIP Code 11.0801 2 year program Do you want to be the next YouTube star? Interested in photography or graphic design? Want to make TV shows or movies? Build websites with rich multimedia and video content? The Clearfield County CTC's new Digital Media Arts program prepares students for work in business and entertainment, shooting and editing photographs, making videos and digital marketing material, and creating websites. The Internet is here to stay and advances in technology make digital media skills an ongoing corporate need. Students use Adobe Creative Cloud software including Photoshop, Lightroom, Dreamweaver, After Effects, Premiere Pro, InDesign, and Illustrator. Students also learn to set up and manage websites using content management systems. Students will learn to build, code, and publish web content in a variety of formats. The Digital Media Arts program is a stepping stone to these potential careers: Graphic & Website Designer • Web Application Developer • Software Developer • Videographer• Computer Programmer • Advertising & Promotions Manager • Radio & TV Reporter, Producer & Editor Public Relations & Marketing Representative
 Digital Illustrator & 3D Animator
 Film & TV Special Effects Artist • Digital Photographer • Multimedia & Mobile Application Developer • Digital Communications Specialist. Certifications earned: NOCTI Certificate, OSHA Certification, 900 Hours of Instruction Certificate.

Drafting and DesignCIP Code 15.1303 and 15.13022 year programThe Drafting and Design Program prepares students for careers in drafting, architecture, and
architectural engineering or continuing education in related fields. The drafting component of the
program focuses on computer- aided drafting utilizing the latest version of AutoCAD and Autodesk
Revit. Students in the program have the opportunity to draft a complete set of construction drawings.

In doing so, students learn approved construction methods. Students also have the opportunity to work on presentation drawings, which allow them to explore their artistic side through 3D renderings, perspective drawings, sketches, and model building with a 3D printer. The architectural engineering component of the program offers students detailed instruction on many aspects of plumbing systems design, as well as a generalized look at the design and drafting of a building's mechanical systems and electrical layout.

Students can earn up to 31 college credits from Pennsylvania Highlands and leave high school with an associate's degree.

Students can also earn SOAR College Credits. Drafting has a 1:1 articulation agreement with Pittsburgh Technical Institute for 8 college credits.

Students can earn the following certifications: NOCTI Certificate, OSHA Certification, and 900 Hours of Instruction Certificate.

Electrical OccupationsCIP Code 46.03992 year programThe Electrical Occupations Program prepares students for careers in the electrical field in the areas of
residential, light commercial, and light industrial, or for continuing education at a post-secondary
institution. Areas of instruction include use of hand and power tools, basic electron theory, blueprint
reading, motor control circuits, tool and electrical safety, using the national electrical code, conduit
bending and introduction to programmable logic controls, single phase and 3 phase transformers.

Students can earn SOAR College Credits. Electrical has a 1:1 articulation agreement with Pittsburgh Technical Institute for 4 college credits.

Students can earn the following certifications: NOCTI Certificate, OSHA Certification, 900 Hours of Instruction Certificate, CAT 5 Certification, CTECH-Copper based Network Cabling Certification.

Health Occupations Technology	CIP Code 51.0899	2 year program
Health Occupations Technology prepa	ares students for careers in a	variety of health occupations by
focusing on several components, all	of which are necessary for s	success in any health occupation.
Students learn basic patient skills that	t apply to any health-related	l occupation. Some of these skills
include direct patient care, setting u	p for an exam, performing	some basic laboratory tests, and
completing some of the necessary doo	cumentation and associated c	lerical work. Medical terminology,
the language of the healthcare world	is key to the success of the st	tudent and is stressed throughout
the program in many applications. Ana	tomy and Physiology which te	each a student how the body is put
together and how it functions when it	is well and demonstrates what	t happens when disease sets in are
also very important in the program.		

Students can earn college credits from Pennsylvania Highlands.

Students can also earn SOAR College Credits. Health Occupations has a 1:1 articulation agreement South Hills School of Business and Technology for Exemption Testing. Health Occupations has a 1:1 articulation agreement with Pittsburgh Technical Institute for 4 college credits.

Students can earn the following certifications: NOCTI Certificate, OSHA Certification, 900 Hours of Instruction Certificate, CPR Certification, CompTIA Health Information Technology Certification.

Heating, Air Conditioning, Ventilation, RefrigerationCIP Code2 year programHVAC/R will prepare students for an entry-level position as an installer, maintenance, or servicetechnician dealing with aspects of the residential and commercial field. This career area is alwaysgrowing, has great monetary potential, and will always be in demand. Students will become adept atworking with specialty tools, pressure/temperature/electrical meters, metal fabricating devices,torches, refrigerants, and live HVAC/R equipment. Students have the opportunity to earn two industrycertifications: Refrigerant Recovery Certification #608 and 410A Safety Certification.

Information TechnologyCIP Code 15.12022 year programThe Information Technology prepares students for their first step towards fulfilling an IT career in cloud
computing, networking, mobility, security or systems administration and/or continuing education at a
post-secondary institution. Students will learn computer maintenance, Security, Networking,
Operating Systems, IT Operations, Troubleshooting, and Technical Support. The program takes a broad-
spectrum approach to teaching the Information Technology field.

Students can earn college credits through dual enrollment with Penn College and can earn SOAR College Credits. Information Technology has a 1:1 articulation agreement with Dubois Business College and South Hills School of Business and Technology for Exemption Testing.

Students can earn the following certifications: NOCTI Certificate, OSHA Certification, 900 Hours of Instructions Certificate, CompTIA IT Fundamentals, and CompTIA A+ Certification.

MasonryCIP Code 46.01012 year programThe Masonry and Building Construction Technology Program prepares students for careers in the
masonry construction field, apprenticeships, or post-secondary education. There are two elements to
the program. The hands-on component of the program provides instruction on block, brick, stone, glass
block, concrete, and plastering along with building walls, chimneys, arches, fire-places, and other
structures. The theory component of the program includes mortar, chimneys, foundations, fireplaces,
arches, estimating, blueprint reading, and safety. Students will complete individual and group projects,
which will include written exercises.

Students can earn SOAR College Credits.

Students can earn the following certifications: NOCTI Certificate, OSHA Certification, and 900 Hours of Instruction Certificate.

Welding and Metal Fabrication TechnologyCIP Code 48.05082 year program

The Welding Technology Program prepares students for careers in welding, construction, and metal fabrication or continuing education at a post-secondary institution to prepare them to become welding inspectors and even welding engineers. Program topics include safe and proper use of welding equipment, welding symbols, reading detailed welding drawings, base metal preparation, Fundamentals and techniques of shielded metal arc welding (SMAW), oxy-acetylene welding, brazing and cutting, Fundamentals& techniques of gas tungsten arc welding, plasma arc cutting, & quality fundamentals and technical gas metal arc welding.

Students can earn college credits through dual enrollment with Penn College and can earn SOAR College Credits. Welding has a 1:1 articulation agreement with Pittsburgh Technical Institute for 3 college credits.

Students can earn the following certifications: NOCTI Certificate, OSHA Certification, 900 Hours of Instructions Certificate, and AWS 1.1 Certification.