

COURSE SELECTION GUIDE

Course Descriptions 2018-2019 School Year

Curwensville Area High School

(1) ENGLISH DEPARTMENT

Academic English 9 (1303) 1 credit

This course will introduce 9th grade students to major elements of the study of language and literature.

Academic English 10 (1403) 1 credit

In this course, students are instructed in the following areas: language and usage, composition, creative writing, oral communication, and the various aspects of literature involved in short stories, novels, and drama.

AP Advanced English 110-English Composition I (1605) (Penn-Highlands, Weighted Course) 1.1 credit: Grade 10, 11, 12

Prerequisite- Successful completion of Academic English 9 with at least a 90% average and a score of Advanced on the PSSA or Keystone Literature exam; teacher recommendation; Penn Highlands Placement Test required. This course emphasizes the techniques of writing expository essays with stress upon careful thinking, word choice, sentence structure, thesis statement and methods of organization. Students practice writing clear, coherent, and unified paragraphs and essays. Editing skills and use of correct grammar and mechanics are also emphasized. Students are taught research and documentation skills and are required to write an argumentative research paper. This is the standard college English course. Students who elect to take this course must understand the volume and rigor of work will far surpass the work of a typical high school English class. *At the end of the course, students will have the option to take the AP English Language and Composition exam scheduled during the first weeks of May.*

Students who take this course will have the opportunity to purchase 3 discounted Penn-Highlands credit (ENG 110).

Academic English 11 –American Literature and Composition (1503) 1 credit

Students in this curriculum will have a complete study of American literature including philosophies, short stories, essays, poetry, and novels. The students will also complete one major college paper exploring their career field of choice to map out a college plan. Other less in-depth writing will also take place in correlation to the reading done in class. Vocabulary and the study of grammar are both contained in the academic curriculum.

Academic English 12 –British Literature and Composition (1603) 1 credit

The content of this course includes major Medieval, Renaissance, Romantic, and Victorian era authors as well as contemporary British authors. Students will complete extensive writing activities and read several novels.

Advanced English 200- English Composition II (1606) (Penn-Highlands, Weighted Course) 1 credit

Prerequisites – Successful completion of Penn Highlands 110

Studies in Literature emphasizes the study of literary terms and techniques frequently used in literature. This course introduces students to major themes found in short stories, poetry, and drama. Students are required to read various genres of literature, respond to their readings in well-developed essays, and participate in class discussions. This is a standard college-level introductory literature course. **Students who take this course will have the opportunity to purchase 3 discounted Penn Highlands credits (ENG 200).**

Advanced Creative Writing (1515) (Penn-Highlands, Weighted Course) 1 credit

Prerequisites – Successful completion of Advanced English 110-English Composition I (Penn Highlands)

This yearlong course will be divided into two parts to re-introduce students to the rules of grammar and strengthen writing habits for everyday use, college, and beyond. **Students who take this course will have the opportunity to purchase 3 discounted Penn Highlands credits (ENG 215).**

Advanced Public Speaking COM 101 (1607) (Penn-Highlands, Weighted Course) 1 credit

Prerequisites – Successful completion of Advanced English 110-English Composition I (Penn Highlands)

This course will help the student build confidence in the theory and practice of public speaking, with the emphasis on the speaker-audience relationship. Skills include analyzing the speaking situation, choosing appropriate topics, conducting research, organizing ideas, utilizing evidence, using voice and body to deliver public speeches effectively to a live audience, and developing the ability to listen actively and critically. This course is an accredited college class through Penn Highlands University and will transfer credits to most major universities. Students will deliver 2 types of informative speeches, a persuasive speech, a special occasion speech, as well as other minor speeches. **The course is a half year course and does not count as a required English department credit.** It is an elective, but may be taken for college credit.

Students who take this course will have the opportunity to purchase 3 discounted Penn Highlands credits (COM 101).

Film as Literature (1512) 1 credit

Prerequisites- Successful completion of 9th and 10th grade English

The course will consist of a survey of 12 benchmark films from the rich history of American Cinema, focusing on different eras and genres of film. We will study the 5 building blocks of Basic Film Language and how filmmakers manipulate these elements in order to affect their audience. We will analyze, read, and write about film from the silent era up to the modern era. We will examine several student and teacher-chosen films and apply new knowledge and skills to the viewing of these films. We will produce our own films. The course involves the writing of several essays as well as quizzes and tests and projects both small and large.

Journalism Writing and Design I (1609) 1 credit (.5 Business Credit/.5 English Credit) Grades 11,12

Prerequisites for this course – Students must be currently taking English Comp 1 or have already taken it; English Grade must be at least an 85%; Students must have an 85% or higher in one of the following courses: Intro to Adobe Design, Photoshop, or Art I; Students must submit an application with recommendations.

Students will learn how to write the necessary articles for the yearbook and the school newsletter, and how to use graphic design programs such as Adobe InDesign, Photoshop, and an online design program. Mrs. Rowles will instruct the students in the area of journalism and Mrs. Pennington will instruct the students in the area of graphic design. The class will be co-taught between the two teachers. Some of the topics covered will be design layout, photography, caption writing, copywriting, themes, and advertising. This will be full year course with actual deadlines and some time out of class will be required.

Journalism Writing and Design II (1611) 1 credit (.5 Business Credit/.5 English Credit) Grade 12

Prerequisites for this course- Students must have an 85% or higher in English Comp I; Students must have an 85% or higher in one of the following courses: Intro to Adobe Design, Photoshop, or Art I; Journalism Writing and Design I.

Students will learn how to write advanced newsletter and yearbook articles of publishable quality. Additionally, students will learn how to use more detailed graphic design techniques that enhance knowledge from Journalism Writing and Design I. Mrs. Rowles and Mrs. Pennington will co-teach these skill sets in journalistic writing and design. Students will create questions and then conduct interviews. The information gained from the interviews will frame their editorial writing. Students will craft articles using detailed descriptions with specific organizations in mind.

Themed Reading II (1309) .25 credit

Themed Reading will analyze literary elements, specifically symbolism, irony, and allegory within student selected novels. The class will use an interactive notebook and Google Classroom assignments to help students delve into the text and practice close reading on a daily basis. Students will actively read the novel using class time and out-of-school time. The interactive notebook will be organized by individual chapters and require activities focusing on

elements of characterization, setting, and vocabulary. Collins Writing will be incorporated throughout bell-work, classwork, and independent writing. Students will collaborate daily to develop solid connections to the novel. Assessments will come from classwork, independent work, and small and large group collaborations. PA Common Core standards for fictional text will drive instruction. However, specific student needs such as accommodations and adaptations will also help create individualized, student-driven instruction that aims to help all students achieve success.

Intro to Public Speaking (1514) .25 credit

All eleventh graders are required to take this course. Will approach rhetorical, physical, and verbal strategies commonly used to deal with public speaking situations.

(2) MATHEMATICS DEPARTMENT

Algebra I (52038) 1 credit

In this *required* course, students will learn the properties of algebra, equation solving, graphing on the coordinate plane, inequalities, factoring, formulas, and statistics.

Keystone Algebra (2303) 0 credit

This course is for all students who do not score proficient or advanced on their Algebra 1 Keystone Exam. Students in this course will continue to explore Algebra 1 concepts as well as review concepts for the Keystone Algebra 1 exam. This course will be taken concurrently with another math course.

Academic Algebra II (2503) 1 credit

Academic Algebra II is a study of our number system, equations, inequalities, relations, functions, graphs, systems of equations, polynomial, quadratic and rational equations, powers, roots, complex numbers, problem solving, and graphing calculator applications.

(This course meets prerequisite for Geometry.)

Academic Geometry (2403) 1 credit

Prerequisites - Successful completion of Algebra II.

This course involves the student in problem-solving, using deductive reasoning, drawing and labeling diagrams, calculations, and logic and reasoning in order to draw conclusions.

Students will also relate geometric facts to geometric figures and use estimation and measuring.

Trigonometry/College Algebra (2512) (Weighted Course) 1 credit

Prerequisites - Successful completion of Geometry

This class involves the solving of all types of triangle problems, graphing trigonometric functions, the use of trigonometric identities, systems of numbers, and college algebra.

Calculus (2603) (Weighted Course) 1 credit

Prerequisites - Successful completion of Trig/College Algebra (with teacher permission can be concurrent)

This Calculus course is a review of Algebra II, Trigonometry and graphing techniques. The calculus concepts cover limits, derivatives, new graphing techniques, maximum/minimum values, integrals, area under a curve and application of these skills. Included are graphing calculator applications.

Advanced Placement Calculus AB (2608) (Weighted Course) 1.1 credits

Prerequisites: Successful completion of Trig/College Algebra

This advanced placement course is designed to prepare students to become deep mathematical thinkers. The course is split into two parts. The first part focuses on the concepts of functions, limits, and differentiation and their applications. The second part builds off the first part and focuses on integration. It will cover topics such as definite and indefinite integration and applications. *At the end of the course, students will have the option to take the AP Calculus exam scheduled during the first weeks of May.* When enrolling in this course, plan to complete pre-calculus work over the summer.

Probability and Statistics (2607) 1 credit

Probability and Statistics is a one-credit course typically designed for students to be taken during their 11th or 12th grade year. The key concepts of this course are as follows: Representing and Interpreting Data, Relating Data Sets, Independent and Conditional Probability, Applying Probability, Making Inferences and Conclusions, and Using Probability to Make Decisions.

Business Math Accounting I (8501) 1 credit

SEE BUSINESS DEPARTMENT

Business Math Accounting II (8601) 1 credit

SEE BUSINESS DEPARTMENT

Business Math Personal Finance (8701) 1 credit

SEE BUSINESS DEPARTMENT

(3) SOCIAL STUDIES DEPARTMENT

American History I – Grade 9 (3302) 1 credit

In the course American History I, students are exposed to the history of the United States from 1757 through 1877. Most of the emphasis of this course relates to the beginning of the United States from the British Colonial Period to the Post Civil War Era.

American History II – Grade 10 (3402) 1 credit

In the course, students study the history of the United States from 1877 to the present. This course relates to the emergence of our country as a world power in the early 20th century.

World Cultures – Grade 11 (3502) 1 credit

In the course, students learn about the major events in world history. They also learn about the culture and lifestyles of the people in these civilizations.

P.O.D/Economics – Grade 12 (3602) 1 credit

This course consists of several areas that are designed to prepare seniors for life after high school. A thorough study of government is followed by economic theory and consumer economics (interest rates, consumer debt, and financing). These topics are followed by an introduction to human psychology and basic sociological issues.

United State History I- Grades 11, 12 (3303) (Penn-Highlands, Weighted Course) 1.0 credit

Prerequisites: American History I and II

This course is a yearlong college preparation course for students in grades 11 or 12. The course will study the causes and effects of WWII through the use of films. These films in order to best understand the global nature of the conflict will be both American and Foreign films. The course will explore war in Europe, Pacific, Holocaust and examine the Vietnam War in its entirety. Political, economic and social effects of the wars will be studied.

Students who take this course will have the opportunity to purchase 6 discounted Penn-Highlands credits (FALL: HIS 100; SPRING: HIS 110).

Politics and Government Today – Grades 10, 11, 12 (3403) (Penn-Highlands, Weighted Course) 1 credit

This year long course will involve the ability to read about, discuss and debate the world of politics and government in America today. Students will do research and improve discussion/debating skills. One college level paper and one final exam is required.

Students who take this course will have the opportunity to purchase 3 discounted Penn-Highlands credits. (GOV 100)

American History III/American Culture-Grades 11, 12(3704)(Penn Highlands, Weighted Course) 1 credit

Prerequisite: American History I and II.

In this class students will learn the history of America and its culture from 1980 to today.

Students who take this course will have the opportunity to purchase 3 discounted Penn-Highlands credits. (GOV 210)

General Psychology-Grade 12 (3304) 1 credit

The General Psychology course is designed to introduce college bound students to the systematic and scientific study of the mind's processes and the body's behavior. Students are exposed to psychological facts, principles, and phenomenon associated with each of the major subfields within Psychology. Students will be required frequently to use higher order thinking skills such as analyzing, synthesizing, and evaluate primary and secondary sources while memorizing, comprehending, and applying facts. Open to seniors only due to the mature nature of class material.

Local History (3604) .25 credit

All 11th grade students must take this course, which students will learn about the history of the area of Curwensville. They will go on a walking tour and learn to appreciate local events and architecture. They will have to complete an extensive research project on an approved local history topic.

Civics (3203) .25 credit

All 12th grade students must take this course. Students will explore some of our countries most troubling questions and what we as good citizens can do about them. We will cut through the media bias and present the facts about the topic. Some of the items we research include: Immigration, Domestic Violence, Civil Asset Forfeiture, and Mandatory Vaccinations. Course is designed to give graduating seniors research skills and prepare them to be good citizens in their community.

(4) SCIENCE DEPARTMENT

Academic Science 9 (4303) 1 credit

This required science course provides an overview of general science topics including: scientific inquiry, atoms, elements, water properties, energy in ecosystems, organism interactions, population dynamics, cycles, biomes, biodiversity and environmental change.

Academic Biology 10 (LAB) (4403) 1.2 credits

This introductory course, which includes a lab period, provides an overview of the basic principles of biology including: watersheds & water quality, taxonomy, prokaryotes, viruses, biochemistry, the structures and function of cells, bioenergetics, homeostasis and transport, cell growth & reproduction, genetics, evolution, and ecology.

Anatomy and Physiology (4508) (Penn-Highlands, Weighted Course) 1 credit

Prerequisites for this course include successful completion of Academic Biology and approval from their Academic Biology teacher.

This course introduces a student to the structure and function of the human body. This elective is designed for the junior or senior science student who may be interested in a career in a biology related field such as research, nursing, X-ray technician, or phlebotomist. This is a yearlong course meeting five days a week. Course topics will include the organization of the body at the molecular, cellular, and tissue level and an in depth investigation into the different systems of the human body. Students will be expected to do lab work dealing with the anatomy and physiology of the human body. Students will do extensive microscope work, bone identification, muscle identification, and cat dissection. Independent and small group study will help prepare the student for his/her college experience. **Students who take this course will have the opportunity to purchase 4 discounted Penn-Highlands credits (BIO 202; BIO 212 Lab).**

Advanced Placement Biology (4507) (Penn-Highlands, Weighted Course) 2 credits

Prerequisite- Students should have a 90% or better average in Academic Biology

This is an introductory college-level biology course. It focuses on the basic principles of biology including biochemistry, cells, genetics, evolutionary history, form and function of plants and animals, and ecology. Students will be required to do extensive reading, prepare college-level research papers and lab reports, and use higher order thinking skills. This course includes a lab that reinforces the topics covered in the text. At the end of the course, students will have the option to take the AP Biology Exam scheduled during the first weeks of May. Students who take this course will have the opportunity to purchase 4 discounted Penn-Highlands credits (BIO 104; BIO 114 Lab)

Academic Chemistry I (LAB PERIOD) (4504) 1.2 credits

(For Students entering health or science related fields) Prerequisites - Students should take Algebra II (or above) concurrently with this course. This Chemistry class is designed to give college bound students a good grasp of chemical concepts including: materials science, chemical formulas and reactions, the mole concept, kinetic theory, gas laws, phase change and solutions. This class requires the student to use mathematics to solve problems dealing with the concepts involved. In addition, lab work is performed for applications of the classroom concepts.

Chemistry Concepts (4509) 1 credit

(No Lab Period)- This class is intended for students who want a basic understanding of chemistry without the rigor of Academic Chemistry I. Students will still perform some labs, and do some of the math associated with chemistry, but at a less rigorous pace. The concepts covered in this class will basically be materials science, chemical formulas and reactions, the mole concept, kinetic theory, gas laws, phase change and solutions.

Advanced Chemistry II (4606) (Weighted Course) 1 credit

Prerequisites - Student should have an 85% or better average in Academic Chemistry I

Chemistry II is a college preparatory class that will investigate the more theoretical areas of chemistry. Topics include: acids and bases, nuclear and atomic theory, electrons and quantum mechanics, spectroscopy, chemical bonding, molecular structure and organic chemistry. This course is intended for students planning advanced studies in chemistry, the health fields, engineering, and other sciences.

General Science I (4608) 1 credit

Basic physical science concepts will be covered for the non-college bound student. Instruction will be based on Algebra 1 and General Geometry math principles. Topics studied will include: mechanics of motion, momentum, energy, gravitation, sound, light, and electricity if time permits. Environmental topics such as the Environment & Human Health, atmospheric climate change, nonrenewable and renewable energy and water will be blended in throughout the course.

General Science II (4615) 1 credit

This science elective will focus on a STEM approach to learning for the non-college bound student. The course will foster a unique learning environment in which students are guided to produce original ideas, objects, and structures according to certain specifications using concepts and skills from math, science, and technology. The course is to grow students' capacity for creativity with back-loaded project based learning. Basic physical science topics will be reviewed for necessary applications along with some environmental topics blended in throughout the course such as nonrenewable and renewable energy, waste and water.

Academic Physics (LAB) (4607) 1.2 credits

Prerequisites- Algebra I & II, Geometry, Trigonometry (concurrent) Problem-solving and critical thinking skills will be taught using a broad range of mathematical skills for the college bound student. Topics studied will include: mechanics of motion, momentum, energy and its conservation, gravitation, sound, light, and electricity. Lab work is performed for applications of classroom concepts necessary for the students planning advanced studies in the health fields, engineering, nanotechnology, preparation for MCAT and LSAT exams and other science related fields that explain how the world around us works.

PA Ecology (4609) 1 credit

This elective course will help students develop an awareness of the total environment and recognize its natural resources. Students will also develop a basic understanding of the earth's ecological systems and the life sustaining effect these systems have on all living things. The class will focus on five key areas of Pennsylvania ecology. Students will study Pennsylvania: wildlife, aquatics, forestry, soils/land use and a current environmental issue.

(5) LEARNING SUPPORT DEPARTMENT

Learning support classes are provided to enable identified students with special learning needs to achieve success in the high school environment. Students, parents, and the learning support teachers work cooperatively to develop courses of studies and Individual Educational Programs (IEP) for each student. Students who select these courses must be pre-approved by the teachers.

English I (1301) 1 credit

This course includes the basic elements of language and literature. Through reading and writing activities, the students improve their word attack skills, phonetic decoding, sight-word vocabulary, word recognition, and reading comprehension skills.

English II (1401) 1 credit

This course is designed to improve the students writing and language arts skills. The students are instructed in the following areas: grammar and usage, punctuation and mechanics, research and study skills, the writing process and types of writing.

English III (1501) 1 credit

This English course focuses on the language arts skills students need to be successful in their future careers. Topic areas include: reading, writing, and grammar skills, employer expectations, communication, good health and grooming, safety, leadership, and career exploration and planning.

English IV (1601) 1 credit

This English class focuses on developing the language arts skills students need to make a smooth transition from school to meaningful jobs and careers. Topic areas include: reading, writing, and grammar skills, applying for jobs, interviewing, managing income, credit, banking and insurance.

Supplemental English (1701) 1 credit

Students in grades 9 through 12 will be engaged in a comprehensive language arts program designed to enhance Language Arts skills. Specifically, they will be provided with instruction in the areas of vocabulary, reading comprehension, and spelling which will lead to better reading fluency.

Further, this course will also focus on individual IEP goals and objectives in the area of language arts.

Math I (2301) 1 credit

This course is designed to give students pre-algebra concepts at an individualized pace. Skills taught include: algebra, whole numbers, decimals, number theory, rational numbers, fractions, ratio, proportion, percent, the Pythagorean Theorem and other math skills.

Math II (2401) 1 credit

This course is designed to give students algebra concepts at an individualized pace. Skills taught include: linear equations with one variable, algebra applications, factoring, statistics, probability, exponents, and polynomials.

Math III (2501) 1 credit

This course is designed to give students basic geometry skills at an individualized pace. Skills taught include: exploring points, lines and planes, parallel and transversal lines, triangles and quadrilaterals, perimeter and area, solids, the Pythagorean Theorem, and other math skills.

Math IV (2601) 1 credit

This course is designed to give students basic living math concepts. Skills taught include: earning money, consumer shopping, managing a home and car, budgeting money and paying taxes, career preparation, and other math skills.

Practical Math (2701) 1 credit

Students in grades 9 through 12 will be engaged in a corrective math program. They will be provided with instruction in the areas of basic concepts, operations, and applications. They will learn how to use a calculator and how to solve real life math problems. This course will also focus on individual IEP goals and objectives in math.

SS-Am. History I (3301) 1 credit

This United States History course provides the student with information about the first Americans in North America through the reconstruction years following the Civil War.

SS-Am. History II (3401) 1 credit

The student learns of the American journey to the West in the 1860's and the Industrial Revolution to the nuclear age and the United States today.

SS-World Cultures (3501) 1 credit

World Cultures allows the student to explore other parts of the world. Countries studied include Europe, Asia, Africa, and Latin America. Cultures and lifestyles are examined.

SS-POD/Economics (3601) 1 credit

Problems of Democracy focuses on citizenship in the United States and the processes of the government. Also included in this course is an introduction to economics and how it is important to our society.

Science-General II (4301) 1 credit

Students will study the science fields of: geology, oceanography, meteorology, and astronomy. Hands-on activities and experiences reinforce concepts learned.

Science-General I (4601) 1 credit

This general science course focuses on a wide variety of topics from all branches of science. These include: life science, matter and energy, earth and space science, and the human body. Hands-on activities and experiments reinforce concepts learned.

Academic Support (7512) 1 credit

In this elective course, students in grades 9-12 will be provided with assistance for regular education classes. The students will learn social, study, organizational and test-taking skills. They will have the opportunity to work on individual IEP goals and objectives, and will receive homework tutoring.

Community Living (7312) .5 credit

This elective will highlight independent living skills and will be offered to students in grades 9-12. The class will include concepts such as time-management, decision-making, and setting goals. These types of skills will benefit the students during the remainder of their education and throughout their adult life.

Career Directions (7412) .5 credit

Career exploration will be the focus of this elective course for students in grades 9 -12. Students will research various careers of their choice in order to investigate the knowledge, training, and skills required for those careers. This course helps students to recognize their interests, achievements, strengths, and lifestyle choices. This exploration will allow the student to decide on a curriculum that will lead to career success as an adult.

(6) GUIDANCE DEPARTMENT

Guidance 11 (1310) .25 credit

The 11th grade Guidance class meets for one 9 week period. The content of the course centers on the following areas:

Graduation Requirements; Career awareness, planning and preparing for life after high school; Training and usage of the current computerized career guidance program.

(7) HEALTH/PHYS ED DEPARTMENT

Physical Education for Girls Grades 9-11-12 (5301) .5 credit

Physical Education for Boys Grades 9-11-12 (5302) .5 credit

The physical education program is designed to develop each individual through many aspects. Physical, social, and mental health, self-discipline and safety concerns are emphasized. Individual, partner, and team activities are promoted to meet the needs of each student. Alternative activities are available to students who have medical problems which restrict them from regular class participation. Physical Education is a *required* course and each student must complete the President's Physical Fitness test every year.

Health & Physical Education 10- Healthy Living for Girls Grade 10 (5303) .5 credit

Health & Physical Education 10- Healthy Living for Boys Grade 10 (5304) .5 credit

This combined course focuses on Health: concentrating on decision-making skills and promotes using knowledge gained to make life choices. The areas of concentration are: responsible decisions about drugs and alcohol, self and peer acceptance, recognizing problems and solutions, and understanding human sexuality. The other half of this course focus' on Physical Educations: designed to develop each individual though physical, social, and mental health, self-discipline and safety concerns is emphasized. This is a required course and each student must complete the President's Physical Fitness Test. (Alternative activities are available to students who have medical problems which restrict them from regular class participation.)

Lifeguard Training (5602) 1 credit

Prerequisites - Must be a proficient swimmer, be able to swim 300 yards continuously using various strokes, and be able to submerge, retrieve, and return to a starting point on a timed test. Student must also have received a passing grade in PE in the past four marking periods.

This course will train students to become competent lifeguards by using skills and knowledge needed to prevent and respond to emergencies in or around water. The students will learn how to recognize and respond quickly and effectively to emergencies and how to prevent drowning and other incidents. Students can be certified in CPR for Professional Rescuer, AED, Oxygen, First Aid, and Waterfront upon passing the required Red Cross written and skills test.

Dance (5105) .5 credit

Grades 9-12 This course is designed for students interested in various types of dance. No experience is necessary. Students will learn various types of social dances, which may include Line dance, Waltz, Two-step and Mixers. Students will also be able to participate in Yoga, Pilates and Zumba.

Driver Education (5402) .25 credit

ALL students must complete thirty hours of Driver Education (Classroom Theory) in tenth grade.

The Driver Education Course meets for 45 days and is a comprehensive drivers training program aimed at teaching the inexperienced driver safe habits, techniques, and skills when using the highway. Fundamentals of car control and environmental awareness are two areas stressed in the program. The Behind-the-Wheel program is individually scheduled with the instructor and includes six hours of in-car training.

Running & Strength (5306) .5 credit

This course is designed for students to engage in lifetime fitness activities that would improve their overall health. The core content covers history of the activities, safety, weightlifting techniques, equipment, physical discipline, core strength, physical fitness and self-improvement.

CPR & First Aid (5307) .5 credit

This course is designed to teach students the basic skills of CPR and First Aid. The core content covers safety, techniques, equipment use, and self-improvement. Students will receive a First Aid and CPR course completion card.

(8) FINE ARTS DEPARTMENT

Senior High Band/Choir Ensembles (6415) 1 credit

Prerequisites – Participation in Jr. High Band and or Choir is highly recommended but not required.

Senior Band is offered to any student in grades 9 through 12 having two or more years on their particular instrument. The band is an active performing group giving students the opportunity to perform not only in Concert band, but also in marching band and several other small group activities. (*Instrumentalists may only participate in Marching Band if they participate in Concert Band the semester before Marching Band season begins.*) Emphasis is placed on performance outcomes as it enhances many school and community activities.

Senior Choir is open to students in grades 9 through 12. Students should be able to match musical pitches. Students are taught vocal production, musical techniques and aesthetic expression. Rehearsals include a variety of choral music with three and four part harmony.

The rehearsals of both ensembles culminates in two required evening concerts, one each semester.

Students may elect to participate in one or both ensembles to participate in this elective.

Beginning Guitar Methods (6505) .5 credit (Grades 9-12)

This class will cover the basics of playing guitar and learning to read music. Guitars will be provided for in class use.

Play the Ukulele (6205) .5 credit (Grades 9-12)

Students will learn musical fundamentals and notation reading while playing the ukulele. This course is for beginners and people who already play. Owning your own uke would be a help but not a necessity.

Theatre (6506) .5 credit (Grades 10-12)

This course is an introduction to the performance aspects of theatre: acting, directing, audition and rehearsal preparation, character study, makeup, costuming, and various other aspects of being a part of a theatrical production. History of the theater, the history and development of musical theatre and the role of theatre in society and culture will also be covered throughout the course.

Technical Theatre (6507) .5 Credit (Grades 10-12)

This course is an introduction to the technical side of theatre. It will cover topics such as parts of the theatre, lighting, sound, and set construction. Participants in the class will get classroom, and hands on training regarding all of the systems which bring a theatre to life. Participation in the class will be directly linked to our school's stage crew and the production of our musical.

Art I –Introduction to Visual Arts (6301) 1 credit

This is an introductory level art course. Covering the basic elements and principals of art and design. Students in this course will gain experience with a variety of drawing and painting media and clay.

Art II- Explorations in Visual Art (6401) 1 credit

Prerequisites - Successful completion of Art I

This course is an expansion upon the elements and principles of art design though a wide variety of materials and media; including drawing with pencil, colored pencil, charcoal, and pastel, painting with watercolors and acrylics, and ceramics, printmaking, and surface design on fabric.

Art III- Advanced Explorations in Visual Art: (Penn-Highlands) (6501) 1 credit

Prerequisites - Successful completion of Art I & II

This is an advanced level art course which will focus on creative problem solving that address a broad range of ideas in art, art history, and art criticism. **Students who take this course will have the opportunity to purchase 3 discounted Penn-Highlands credits (ART 110).**

Art IV- Advanced Visual Art -Portfolio Concentration (Penn-Highlands) (6601) 1 credit

Prerequisites - Successful completion of Art I, II & III

This is the final art experience in the sequence of art courses. This course is a continued exploration of creative problem solving with a focus on the development of an individualized portfolio of student work. **Students who take this course will have the opportunity to purchase 3 discounted Penn-Highlands credits (ART 110).**

Business of Art (6402) 1 credit

Prerequisite: Art I

The focus of this course will be on the business skills an artist needs to create and market their original artwork and handmade items. Students will research handmade arts and crafts and the process of making those items. An integral part of this course will be planning and hosting an artist's market and sale for the community. Students will gain experience creating, marketing, advertising, writing press releases, setting up displays, and calculating production costs for their handmade items. Local artists and crafts people will be invited to speak about the business aspects of producing and selling their work throughout the year.

(9) INDUSTRIAL ARTS/TECHNOLOGY DEPARTMENT

Mechanical Drafting (7501) 1 credit

Prerequisites – must have successfully completed geometry, or taking geometry in the freshman year.

The drafting class will introduce the students to the language of industry. With the utilization of drafting equipment and problem solving skills, the students engage themselves in learning this universal language.

Computer Drafting I (7502) 1 credit

Prerequisites - Successful completion of Mechanical Drafting

This class uses AUTOCAD LT to explore the realm of computerized drafting. The skills learned in the previous class, Mechanical Drafting, will be utilized here.

Computer Drafting II (7602) 1 credit

Prerequisites - Successful completion of Computer Drafting

Computer drafting techniques will be continued in this class, but with an emphasis on architectural techniques.

Wood Technology (7301) 1 credit

Technology Wood introduces the students to the basic machines and joinery used in woodworking. The safe and proper use of machines is emphasized with a student project used as a teaching vehicle. An introduction to CAM (computer aided machining) and plastic technology are also incorporated into this course.

Advanced Wood I (7401) 1 credit

Prerequisites - Successful completion of Technology Wood

In this advanced class, the skills and knowledge developed in Technology Wood will be further enhanced.

Woodcarving I (7402) .5 credit

Students interested in this course must be in grades 9, 10, 11 or 12.

Intro to Woodcarving is a one-semester course designed to introduce students to basic woodcarving skills using hand tools. The class will explore different styles of carving by completing several projects designed to increase students' skills in both working with their hands, as well as design, while incorporating safe tool usage that will be taught at the beginning of the class.

Woodcarving II (7203) .5 credit

Prerequisites- Successful completion of Woodcarving I Students interested in this course must be in grades 9,10,11,12.

Metal Technology (7302) 1 credit

This is an exploratory class, which covers various metal related processes and careers. CAM (computer aided machining) is also introduced in this course.

Advance Wood II; Research, Design, and Development (7505) 1 credit

Prerequisites – Students interested in this course must be of Junior or Senior status and have the following: Technology Education – Wood I and proficient completion of Advanced Wood. Mathematics – Geometry and Algebra

This course will require students to select a project specifically related to the fields of forestry and or woodworking. Students will research the approved, selected topic by utilizing various resources (ex. textbooks, magazines, internet, etc.) to acquire the history, background knowledge, practicality, and materials specific to the project. Students will gain insight into the field of drafting and technical design by creating sketches and scaled drawings in order to develop the selected project. Students will utilize skills and knowledge from Wood I, Advanced Wood, Algebra, and Geometry as a basis for construction of the project. Introduction and exploration of advanced woodworking techniques such as dovetail joinery, raised panel construction, cope and stick door construction, lathe work, and trim molding, will be incorporated into the projects as well. Students will compile a project report (three ring binder) composed of a project proposal, documented research, designs, bill of materials specific to the project, materials selected, as well as documentation of the project development (tools, machines, techniques used, etc.). Students will learn to critique and reflect upon the project by creating a self-reflection of bottlenecks, improvements, project importance, future impacts, and learning outcomes specifically related to the project.

Introduction to Forest Technology (7506) 1 credit

Prerequisites – Geometry, Algebra, Wood I or Metal Tech. Students interested in this course must be in grades 10, 11 or 12.

This course will enable students to engage in a wide array of traditional methods and contemporary technologies associated with the forest technologies arena. Which include: basic forest management, forest ecosystems, wood specie identification, harvesting, sawmilling, hand tools, chain saw maintenance and operation, basic mechanics of forest tools and equipment, basic surveying of land and forest conservation with eco-friendly logging techniques. Students will reinforce ideas and concepts of theory through shop projects and activities and basic fieldwork.

[Students will also have the opportunity to work toward their PA SFI (PA. Sustainable Forestry Initiative) certification. PA SFI is an educational training program that provides landowners, schools, loggers, foresters, and government agencies with valuable information in dealing with one of PA's most valuable resources, our timber industry. This program teaches best management practice, sustainable forest management, and provides loggers and forest tech workers with a State certified training program with the use of machines and chainsaw operation and safety techniques using directional felling practices. The main objective is to educate students in safety and how to best harvest timber for future growth and sales, while deterring the negative effects of bad logging practice and poor management. Students who choose to pursue this certification within the curriculum will receive 1 on 1 instruction on chainsaw operation and be provided ALL necessary safety equipment.]

Course standards and curriculum would be coupled with the PA College of Technology and wood industry standards that would enable a student to pursue any career involving forestry tech, forestry, or fieldwork. If the student so desired to follow up on post-secondary associate degree work in this particular field they would have an opportunity to be placed into a career associated with the forest tech, logging, lumbering or wood industry of Pennsylvania. Associate Careers: Dry kiln operator, equipment sales, field forester, logging operations supervisor, research and development forest science, surveying techniques, timber buyers, veneer graders, standard lumber graders, and natural gas industry.

(10) BUSINESS DEPARTMENT

Introduction to Computer Programming I (8405) 1 credit

Prerequisites – Successful completion of Algebra II

This exciting course takes you on a journey from the very basics of coding – HTML, CSS, and JavaScript and ends with developing your own windows applications with Visual Basic and C++/C#. This course is an absolute must for any student who has an interest in computers/technology, even if you aren't yet sure what you want to do for a career. The course is considered an Independent Study, but there are resources on hand and an instructor present to assist. You'll develop websites, have them hosted on servers both here in the school and outside on the Internet. You'll also write programs that can be run either on the web or directly on the desktop.

Advanced Programming (8704) 1 credit Grades 11,12 (Independent Study)

Prerequisites: Introduction to Computer Programming, Successful completion of Algebra II

This is the sequel to Introduction to Programming. In this class, students will use C++, C#, and F# to develop applications for both the desktop and both the android and iOS phone operating systems. This course will not focus as much on the web, but will instead focus more on data placement and retrieval from both in house and online databases, working with multiple variables at a time, and writing complex code. This course is highly recommended for any student who has an interest in software development or IT in general. You will also learn some basic system administration skills as there is often an overlap between software development and the administration functions in the commercial setting. Pre-requisites are successful completion of Intro to Programming with Algebra II or higher.

Introduction to Computers, Networking and Servers (8408) 1 credit

Prerequisites – Computer Applications I

This course will run as an independent study course as the students will complete modules on their own that will be determined by the path they choose. The choices of paths to follow include: Microsoft Office Specialist, IT Professional, and Developer. The completed tests and course completion will determine your pass/fail grade in this course.

Foundations in Business (8702) 1 credit Grades 11, 12

Prerequisite: Computer Applications I and Algebra

Students will spend an entire school year immersed in cutting edge topics in business fundamentals, business law, and entrepreneurship. Students will learn the basics of managing the small business from startup and incorporation through daily operation. In business law, students will learn about liability, protecting their business and themselves legally, and principles in local, state, and Federal law. The last third of the class is Entrepreneurship where students will be the CEO of their own company and start it from scratch. They will develop the business plan, incorporating legal documents, establish lines of credit, locate sources of capital, and develop a marketing package for their business. At the end of this exciting course, local business owners will be recruited to look over the business plans created by the students and students will get genuine feedback from local business leaders. This class is an absolute must for anyone considering any type of career where they either aspire to run their own business or serve as a member of management for an existing company.

Digital Citizenship (8703) .25 credit Grade 9

How do you survive in a digital world? We hear phrases such as cyber security, identity theft, and digital money. How does one maintain privacy in the world we live in today? How does one live their life in a way that minimizes the risks to themselves? Is electronic banking safe? Can my bank's computers be hacked? Is someone reading my emails? What kinds of communication can I rely on to be relatively secure and what can I do to make my identity less of a target for identity theft, which is one of the fastest growing crimes in the world. We will discuss all of these topics and students will leave this one-of-a-kind class with a working knowledge and real tools they can use to keep themselves from becoming a statistic.

Student Tech (8414) 1 credit Grades 11, 12

Prerequisites- Students must have a 90 or higher in Computer Programming; Students must successfully complete Intro to Computer Networking; Students must be recommended by Mr. Sutton and Mrs. Pennington. Students will be able to take this course as a supplement to Intro to Networking. They will be working directly with the Technology Administrator and will receive a pass/fail grade for this course. You will learn real world applications, including the implementation of hardware and software and other infrastructure components. There will be discussions on IT Hot topics and you will discuss the question and solutions. The Technology Administrator and Mrs. Pennington will have final say on the students that may take this course.

Introduction to Adobe Design (8409) 1 credit

Prerequisites – Successful completion of Computer Applications I. Students will learn basic skills in some of the following programs: InDesign, Photoshop, and Illustrator. The software programs are all based on design printing. InDesign is a print design program for creating flyers, brochures and newsletters; Photoshop is a graphic design program for designing pictures for print or the web; and Illustrator is a graphic design program used for designing logos or other graphics used in printing or on the web. This class will be in charge of creating the school's newsletter and various other documents for teachers and staff. The students in this course will compete in a local school computer fair competition and one group will compete at the regional level.

Business Math Accounting I (8501) (Math) 1 credit

Students will learn how to analyze business transactions for a sole proprietorship. Students will learn the accounting cycle: general journals, general ledgers, worksheets, and financial statements. Students will learn about cash control, banking activities, and payroll. This class is the first of two classes needed to get the Penn Highlands College Credit.

Business Math Accounting II (8601) (Penn-Highlands ACC 110 – Principles of Accounting) (Math) 1 credit

Prerequisites – Successful completion of Accounting I. This is the second class in the process to get the Penn Highlands College Credit. The students will further their studies in accounting to complete the following: accounting for cash receipts, sales, purchases, and cash payments; learn how to use special journals and cash funds; make adjustments to a 10 column worksheet; and prepare financial statements for a corporation. Students will also learn the difference between the accrual basis for accounting and the cash basis.

Students who successfully complete Curwensville's Accounting I and II courses will have the opportunity to purchase 3 discounted Penn Highlands credit (ACC 110).

Business Math Personal Finance (8701) (Math) 1 credit

Students will learn math concepts and other information to help them to understand many of the financial situations that they will be faced with in their adult lives. Some of the items covered are: gross income, net income, taxes, checking accounts, savings accounts, credit card accounts, loans, buying cars and homes, insurance, retirement accounts.

(11) FOREIGN LANGUAGE DEPARTMENT

French I (9311) 1 credit

Curwensville Blended Learning Academy (Cyber)

A comprehensive and engaging introduction to French language and culture. After mastering the French alphabet and numbers, students study French culture, events, and people. By the end of the course, students have a foundation in the study of French, are able to engage in French conversation, and have built a solid foundation for further French language study.

French II (9411) 1 credit

Curwensville Blended Learning Academy (Cyber)

Prerequisite- French I

Students continue their virtual tour through France and other French-speaking countries and regions. This second-level French course takes a historical perspective in teaching the language, covering historical events and historical figures. By the end of this course, students have gained a deeper knowledge of and appreciation for the French culture and language.

Spanish I (9301) 1 credit

Prerequisite -Students interested in taking Spanish I will be admitted into the class based on their GPA averages. The highest-ranking students will be permitted into the class first. Each class of Spanish I will have a maximum total of 30 students per class. Two years of foreign language instruction may be required by certain universities for specific academic majors. Check with the university to confirm.

In this course, students will understand the benefits of learning a second language through the introduction of basic Spanish vocabulary and grammar functions in the present tense in both written and oral forms. The students will begin to internalize the spoken language and begin the acquisition of reading and writing skills.

Spanish II (9401) 1 credit

Prerequisites - Successful completion of Spanish I. Students continuing in Spanish will be admitted in Spanish II based on their GPA averages. The highest ranking students will be admitted into the class first. Each class of Spanish II will have a maximum of 30 students. Two years of foreign language instruction may be required by certain universities for specific academic majors. Check with the university to confirm.

In this course, the students will begin to converse using more complex grammatical structure and vocabulary while concentrating in effective communication in the present and preterit tense. The students will increase reading, writing and speaking proficiency through a more detailed study of culture with materials produced by native speakers.

Spanish II: Penn-Highlands Spanish (9402) (Weighted Course) 1 credit

Prerequisites - Successful completion of Spanish I. Students continuing in Spanish will be admitted in Spanish II based on their GPA averages. The highest ranking students will be admitted into the class first. Each class of Spanish II will have a maximum of 30 students. Two years of foreign language instruction may be required by certain universities for specific academic majors. Check with the university to confirm.

In this course, the students will begin to converse using more complex grammatical structure and vocabulary while concentrating in effective communication in the present and preterit tense. The students will increase reading, writing and speaking proficiency through a more detailed study of culture with materials produced by native speakers. **Students taking the Penn Highlands Course will also be required to follow the course syllabus and rubric from Penn Highlands.**

Students who successfully complete Curwensville's Spanish I and II will have the opportunity to purchase 3 discounted Penn-Highlands credits (SPA 101- Spanish I).

Spanish III (9501) 1 credit

Prerequisites - Successful completion of Spanish I & II, and an 85% or better in Spanish II

All students will refine and improve reading, writing, and speaking skills in all tenses through the concentration of journal writings, oral presentations, and reading (literary works) short stories in the target language. The students will integrate all new vocabulary and grammar into both written and oral speech to successfully enhance self-expression.

Spanish IV (9601) 1 credit

Prerequisites - Successful completion of Spanish I, II, III, and an 85% or better in Spanish III

(The students will learn awareness of career-oriented goals in the Spanish language through successful written and oral communication at high levels of proficiency). The students will continue to refine and improve reading, writing, and speaking skills through journal writings, oral presentations and reading literary works in the taught language. All students will utilize and demonstrate their various proficiencies through instruction of elementary level students.

12) Career-Technical Courses
Clearfield County Career and Technology Center
2018-2019 Secondary Course Offerings
1620 River Road – Clearfield, PA 16830

(814)765-5308 – www.ccctc.edu



The Clearfield County Career & Technology Center offers career-oriented, multiyear sequences of courses that integrate core academic knowledge with technical and occupational knowledge to provide 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 Public School Districts & Private Schools

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



The National Technical Honor Society (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 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.



DECA is a national and state organization designed exclusively for marketing and business education students. DECA is dedicated to fostering member competencies in each of four key areas: Vocational Understanding, Civic Consciousness, Social Intelligence, and Leadership Development. Through DECA-sponsored student conferences, members have opportunities to cultivate personal development in each of these four areas. These conferences, paired with regular classroom activities, prepare students to compete against fellow DECA members at the district, state and national levels. The DECA organization strives to develop strong future leaders with highly developed career and technical skills in marketing, management and entrepreneurship.



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.



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 2 year program

0501/0601 Auto Mechanics Technology: CIP Code 47.0604 **2 Year Program**

The Automotive Mechanics Technology 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.



0502/0602 Carpentry and Building Construction: CIP Code 46.0201 **2 Year Program**

The Carpentry and Building Construction Technology Program prepares students for careers in residential and light commercial construction, apprenticeships, or continuing education at a post-secondary institution. The program provides intensive safety training for all hand held and stationary construction power equipment. Areas of instruction include, site selection and building permits, foundations and forms, floor framing, wall framing, roof framing, and roof 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.



0513/0613 Collision Repair Technology: CIP Code 47.0603 **2 Year Program**

The Collision Repair Technology Program provides students with the skills, knowledge, motivation, and work ethic to begin working in entry-level collision repair positions or 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.



0630/0631 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 in-school 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.



0403/0503/0603 Cosmetology: CIP Code 12.0401 Program

3 Year

A 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 High-lighting, 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).



0510/0610 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.



0506/0606 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).



0517/0619 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. Digital Media Arts is a two year program. Students can earn Soar college credits. Students can earn the following certifications: NOCTI Certificate, OSHA Certification, and 900 Hours of Instructions Certificate.



0505/0605 Drafting and Design: CIP Code 15.1303 and 15.1302

2 Year Program

The 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.



0508/0608 Electrical Occupations: CIP Code 46.0399

2 Year Program

The 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.



0511/0611 Health Occupations Technology: CIP Code 51.0899

2 Year Program

Health Occupations Technology prepares students for careers in a variety of health occupations by focusing on several components, all of which are necessary for success in any health occupation. Students learn basic patient skills that apply to any health-related occupation. Some of these skills include direct patient care, setting up for an exam, performing some basic laboratory tests, and completing some of the necessary documentation and associated clerical work. Medical terminology, the language of the healthcare world is key to the success of the student and is stressed throughout the program in many applications. Anatomy and Physiology which teach a student how the body is put together and how it functions when it is well and demonstrates what 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.



0553/0653 Heating, Air Conditioning, Ventilation, Refrigeration: CIP Code

2 Year Program

HVAC/R will prepare students for an entry-level position as an installer, maintenance, or service technician dealing with aspects of the residential and commercial field. This career area is always growing, has great monetary potential, and will always be in demand. Students will become adept at working with specialty tools, pressure/temperature/electrical meters, metal fabricating devices, torches, refrigerants, and live HVAC/R equipment. Students have the opportunity to earn two industry certifications: Refrigerant Recovery Certification #608 and 410A Safety Certification



0504/0604 Information Technology: CIP Code 15.1202

2 Year Program

The 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.



0512/0612 Masonry: CIP Code 46.0101

2 Year Program

The 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.



0615/ 0616 Precision Machining Technology: CIP Code 48.0501



2 Year Program

Competency based program that trains students to operate standard industrial machine and metal working tools in the industry. These include cutters, shapers, milling machines, precision grinders, drill presses and lathes. Students are introduced to tool and die work and the specialized metal working machines, measuring tools, gauges, instruments, blueprints, shop mathematics and all aspects of metal working including basic metallurgy, precision work and quality control. Also being covered is how to utilize a CAD/CAM system such as Mastercam. The opportunity to earn a minimum of four National Institute of Metalworking Skills Certifications (NIMS) is available. Precision Machine has a 1:1 articulation agreement South Hills School of Business and Technology for Exemption Testing. Students can earn the following certifications: NIMS Certification, OSHA Certification, and 900 Hours of Instruction Certificate.



0514/0614 Welding & Metal Fabrication Technology: CIP Code 48.0508

2 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 & 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.



**Opportunity Knocks
with Skills Training**