Coudersport Area Jr./Sr. High School

Coudersport, Pennsylvania

2022/2023

Registration Guide

Updated on 2/2022

February 2022

Dear Student,

This registration guide has been prepared to assist you in understanding your academic future. Awareness of course options, graduation requirements, and career exploration serve to pave the way for post high school planning. We are here to assist you with every aspect.

In the recent past, we have witnessed a dramatic shift in the needs of business, industry and society in general. The workplace of the 21st century requires students to not only master academics but a complement of applied skills as well. These skills include effective use of technology, creative thinking, problem solving, interpersonal skills, teamwork, decision making, and acceptance of diversity. Preparing students to meet these demands has brought new challenges to high school education. Bear these skills in mind as you select your course of study.

Whether your goals are to pursue a four year university program, a career-technical program, the military, or immediate employment, you should challenge yourself to select a program that enables you to be your personal best.

Please read the information in this registration guide pertaining to requirements, graduation projects, and schedule changes. These regulations will be strictly followed. Consult with your parents, teachers, and counselors in planning your program. Use their wisdom and experience as an aid in making these important decisions.

Students should confer with teachers regarding individual subject placement. Course selection forms should be returned to the School Counseling Center as soon as possible. Individual conferences will be scheduled at a later date, as needed or requested.
The importance of the course selection process cannot be over-emphasized. It is your future; make the most of it!

Educationally,
Mrs. Minard
Mrs. Budd

Disclaimer: Any modifications to this Registration Guide will be posted to www.coudyschools.net following the approval of the Coudersport Area School District Board of School Directors.

Preparation for Post-High School Goals

It is important that parents and students consider and establish realistic post-high school goals at the time they are planning schedules. There are several considerations to be assessed in establishing goals: the student's ability to do academic work, the student's desire for future education, the level of training desired, and the feasibility of financing an education. All students should pursue a challenging schedule which is designed to conform with post-high school goals. School counselors are aware of the changing requirements for employment and educational opportunities and should be consulted frequently by students and parents.

Graduation Projects

All students will be required to complete a graduation project of their choice. The graduation project guidelines were developed through a process that involved the high school administration and teachers. Students may select from two areas of interest, careers or community service, to fulfill their graduation requirement.

Technology

The School Board has adopted policy which states that all students in the School District must sign a Technology and Computer Use Form in order to have access to any school computer (classroom, library, student services office, etc.). A student who loses school computer privileges is still responsible for technology related course requirements.

Course and Program Availability

The offering of any course detailed in the registration guide is dependent upon sufficient enrollment as determined by the administration and/or Board of Education. The Board also reserves the right to drop a program if deemed necessary. Students will be notified when a course or program is dropped and given the opportunity to make another selection.

Honors Courses

An honors course option is available to students in grades 10-12. Honors courses are designed to be academically rigorous and challenging to the highest achieving students. A student can take any number of honors courses for which he/she qualifies. Honors courses will carry a weight of 1.05 for the purpose of class ranking, grade point average and calculation of Honor Roll only if the student has earned a minimum of an 80% in the specific honors course. All honors courses require teacher and/or administrative approval and parent/guardian approval.

English: English 10, 11, and 12 have an honors level course. In order to qualify for honors English, the student must have earned a 95% final average or better in the previous two English courses completed. (Ex. For Honors English 10, a student must have earned a 95% final average in English 9 and English 8). Also, a writing sample will be required and evaluated for writing ability.

History: History 10 and World History 11 have an honors level course. In order to qualify for honors history, the student must have earned a 95% final average or better in the previous two history courses completed. (Ex. Honors History 10, a student must have earned a 95% final average in American History 9 and History 8).

Additional Honors Courses: The following courses are also considered honors but have different pre-requisites. A student and parent/guardian are to read the information in the Registration Guide as to what is the criteria to be considered for each course. *Communications, Chemistry II, Physics II, Biology II, Calculus II, Anatomy and Physiology.*

Dual Enrollment Courses

Dual enrollment courses refer to courses that 11th and 12th grade students can take at our high school and earn college credit via an agreement with the University of Pittsburgh at Bradford. The average cost for each course at the high school is approximately $125 plus the cost of the book. The current cost for the same course at the university is about $1922. All of the dual enrollment courses we offer are also considered honors and will carry a weight of 1.05 for the purpose of class ranking, grade point average and honor roll. In order to receive the honors weighting, the student must earn at least an 80%. A student can take the course for high school credit only if s/he does not wish to pay for the dual enrollment college credits but the book must be purchased if required for the course. The course will remain an honors course. Likewise, dual enrollment courses may be offered to students in 9th and 10th grade but as honors courses for high school credit only.

Even though most colleges/universities will accept these credits, students and parent/guardians need to understand that it is not guaranteed that a college will honor the college credits. Students must check the transfer policy for each college he or she may be considering. Each college has requirements of what it will and will not accept. Please refer to the college's transfer policy online or contact the college admissions office. A helpful website is the PA TRAC (www.PAcollegetransfer.com). This website allows students to enter information about the dual enrollment courses and then be able to check to see if certain colleges will accept the college credits.

Each of the Dual Enrollment courses has its own pre-requisites. Students and parents must read the course description in the Registration Guide to see if the student meets the criteria to take the course.

We offer Dual Enrollment in the following courses: *Financial Accounting Concepts, Algebra II, Pre-Calculus, Calculus, Statistics, Intermediate French (French IV), Intermediate Spanish (Spanish IV), Plants & People and Intro to Environmental Science.*

In addition, students who attend the Seneca Highlands Career and Tech Center in the Networking Systems Technology have the opportunity to earn college credits through the Pennsylvania College of Technology.

Virtual Academy Courses

The Coudersoprt School District provides virtual course options at the discretion of the administration. Please contact the School Counseling Center or the principal for more information.

Mansfield University's Early Start Program (ESP)

Mansfield's ESP (Early Start Program) allows qualified high school students to take Mansfield University courses-in online, hybrid, or face-to-face formats - and earn college credits while still enrolled in high school. The appropriate courses are college credits while still enrolled in high school. The appropriate courses are determined collaboratively by the university and the district but may not replace courses offered by the Coudersport Area Jr.-Sr. High School. Prior to the start of the application process, students should schedule a meeting with the high school counselor in order to determine appropriate course options and to obtain a high school transcript and letter or recommendation. For the 22-23 school year, Mansfield University anticipates offering the ESP tuition free contingent on available external funding. Please note that there are some fees to pay in addition to the discounted tuition, and students are responsible for acquiring the necessary required materials for each course. For more information, **go to mansfield.edu/apply and click on Early Start Program.**

Scheduling Procedures

- Each student will pre-schedule (request courses) for the next school year with the school counselor.
- Each student is advised that requests made during the pre-scheduling process are not guaranteed. The offering of any course is dependent upon sufficient enrollment as determined by the administration and/or the Board of Education. Additionally, a course may be offered during a period that cannot be accommodated in the student's schedule of required courses or the student may not meet the pre-requisites for the course.
- Each student is required to schedule a minimum of 7.5 periods a day. All students must schedule a minimum of classes that results in no more than 1.5 study halls. Any exception to this practice will require approval of the High School Principal. If a student does not request enough courses, the school counselor and/or administration reserves the right to complete the student's schedule as needed.
- When the student is pre-scheduling, they will be asked to select at least 9 courses. These will include core academics, required courses and 2-3 elective options.
- Students and parents/guardians are reminded that certain courses have pre-requisites. Be sure you have met the pre-requisites or on track for meeting the pre-requisites before requesting the course. Final grades will be checked to make sure pre-requisite grades are earned and in some cases, teachers will be consulted for their final approval.
- All schedule changes are to be made with in the first five (5) school days. All schedule changes must have parent/guardian permission and in some cases, teacher approval. Any student who chooses to drop a course after five (5) school days will receive a withdrawal failure on their report card. Exceptions to this will be made on a case-by-case basis, during which the high school principal will be involved and will exercise his professional judgement.
- Parent/Guardian Approval: Parents/Guardians will have the opportunity to approve their student's course requests. Please review your child's requests for next year. If you have any questions, please contact the school counselor.
- Course requests not turned in by the date required will result in a schedule being prepared for you.

Criteria to Apply to the Career and Technical Center (grade 10-12)

1. Student must be, at a minimum, a sophomore in good standing to attend the CTC in 10th grade.
2. Student must pass all district required courses and credits to continue at the CTC the next year to continue in their program.
3. Students who want to attend the CTC for the first time are required to fill out an application and the following criteria is used to evaluate each student: grades, attendance, tardiness, work ethic and sincere interest in the CTC program for which they are applying.
4. Applications will be made available through the School Counseling Center.
5. The CASD high school principal reserves the right to recommend/refuse student CTC placement based upon extenuating circumstances.

Keystone Exams and Supplemental Instruction Requirements

The Keystone Exams are end-of-year assessments designed to gauge proficiency in Algebra I, Literature, and Biology.

- As scheduled, Grade 7 students (and beyond) will take the Kestone Algebra I Exam.
- Grade 9 students will take the Keystone Biology Exam.
- Grade 10 students will take the Keystone Literature Exam.

Any student who does not score proficient or higher on the designated exam will be required to retake the Keystone Exam after having completed a semester-long remediation course provided by the district the following school year.

Eligibility to Participate in College Sports

If you are going to participate in athletics at a NCAA Division I or II college you must be certified by the NCAA Initial Eligibility Clearinghouse. Plan to start the certification process as soon as one's junior grades are final. Please read the following information on NCAA Initial Clearinghouse Eligibility at https://web3.ncaa.org/ecwr3.

NCAA and College Bound Students

Many college athletic programs are regulated by the National Collegiate Athletic Association, an organization founded in 1906 that has established rules on eligibility, recruiting, and financial aid. The NCAA has three membership divisions - Division I, Division II, and Division III. Institutions are members of one or another division according to the size and scope of their athletic programs and whether they provide athletic scholarships. If you are planning to enroll in college as a freshman and you wish to participate in Division I or Division II athletics, you must be certified by the NCAA Initial-Eligibility Clearinghouse. The Clearinghouse ensures consistent application of NCAA initial eligibility requirement for all prospective student athletes at all member institutions. Therefore, students interested in playing NCAA Division I or Division II intercollegiate athletics should talk to their school counselor each year when they are preparing their high school schedule. There are certain academic requirements including core courses, grade point average, and scores on the SAT (Scholastic Aptitude Test) or ACT (American College Test) for initial eligibility.

Review the following to understand the initial eligibility requirements for Divisions I and II.

Core Courses

The NCAA Divisions I and II require 16 core courses (see charts). **NCAA Division I will require 10 core courses** to be completed **prior to the seventh semester** (seven of the 10 must be a combination of English, math or natural or physical science that meet the distribution requirements below). These 10 courses become "locked in" at the start of the seventh semester and cannot be retaken for grade improvement.

ACT/SAT TEST SCORES

Division I & II uses a sliding scale to match test scores and core grade point average. The sliding scale is available on NCAA Eligibility Center website or you can see your school counselor.

The SAT score used for NCAA purposes includes only the ERW and math. The writing section is not used. The ACT score used for NCAA purposes is the **sum** of the following four sections: English, mathematics, reading and science. Students may take the SAT or ACT an unlimited number of times

before they enroll full time in college. If either test is taken more than once, the best subscores are used to meet initial eligibility requirements.

Note: When you register for the SAT or ACT, use the NCAA Eligibility Center code of 9999 to ensure all SAT and ACT scores are reported directly to the NCAA Eligibility Center from the testing agency. Test scores that appear on transcripts WILL NOT be used.

Grade Point Average

Be sure to look at your high school's list of NCAA Courses on the NCAA Eligibility Center's website. They are also listed below. Only courses that appear on this list will be used in the calculation of the core GPA.

NCAA Qualifying:

Division I: To be considered a Full Qualifier you must complete 16 core courses and 10 of the 16 core courses must be completed before the seventh semester (senior year) of high school. Seven of the 10 core courses must be in english, math or science. You must also have a core-course GPA of at least a 2.3 and earn the ACT/SAT score matching your core-course GPA on the Division I sliding scale and graduate from high school.

Division II: To be considered a Full Qualifier you must complete 16 core courses and earn a core-course GPA of at least a 2.2. You must also earn the ACT/SAT score matching your core-course GPA on the Division II full qualifier sliding scale and graduate from high school.

DIVISION I

16 Core Courses:

- 4 years of English
- 3 years of mathematics (Algebra I or higher)
- 2 years of natural/physical science (1 year of lab if offered by high school)
- 1 year of additional English, mathematics or natural/physical science
- 2 years of social science
- 4 years of additional courses (from any area above or foreign language, or comparative religion or philosophy)

DIVISION II

16 Core Courses:

- 3 years of English
- 2 years of mathematics (Algebra I or higher)
- 2 years of natural or physical science (including 1 year of lab science if offered by your high school)
- 3 years of additional English, mathematics or natural science/physical science
- 2 years of social science
- 4 years of additional courses (from any category above or foreign language, or comparative religion or philosophy)

Each year students should be checking with their school counselor to make sure that they are taking a core curriculum that meets NCAA requirements. Students should register to take the SAT or ACT as a junior (usually in the spring). Students can register for the SAT at www.collegeboard.com and for the ACT at www.actstudent.org. If students have any questions about registering for either test, they need to see their school counselor.

As of the date this is printed, the NCAA registration fee is $90. Some students may qualify for a fee waiver if they also meet the requirements for a SAT/ACT fee waiver. Part of the registration process is to have your transcripts sent to the NCAA. Coudersport High School requires students to fill out a transcript release form in order to release school records. The form is available in the School Counseling Center.

Approved NCAA Core Courses

English
English 9
English 10
American Lit.
British Lit.
Communications

Mathematics
Algebra I
Algebra II
Pre-Calculus
Modern Geometry
Statistics
Calculus I
Calculus II

Social Science
American History 9
American History 10
World History
Government
Psychology
Sociology
Criminal Justice

Natural/Phys. Science
Biology
Biology II
Chemistry
Chemistry II
Physics
Physics II
Anatomy & Physiology
Applied Chemistry
Conceptual Physics
Earth Science
Organic Chemistry
AP Chemistry

Additional Core Courses- French I, II, III, IV and Spanish I, II, III, IV

Coudersport Area High School
Graduation and Class Placement Requirements

To be awarded a diploma from Coudersport High School, all students must complete the following units of study and earn the required credits.

Listed below are the minimum credits required for graduation by the Class of 2022.

General Requirements		
English 9, 10, 11, 12	4	credits
Social Studies/Government	4	credits
Science	4	credits
Math (9-12)	4	credits
Health 9, 11	1	credit
Physical Education	2	credits
Electives	7	credits
	26	**credits**

Career and Technical School Requirements		
English 9, 10, 11, 12	4	credits
Social Studies/Government	2	credits
Science	3	credits
Math (9-12)	3	credits
Health 9, 11	1	credit
Physical Education	2	credits
CTC9	credits	
	24	credits

Class placement for students is as follows:

Class of 2023 ..... Minimum of 18 credits

Class of 2024 ..... Minimum of 12 credits

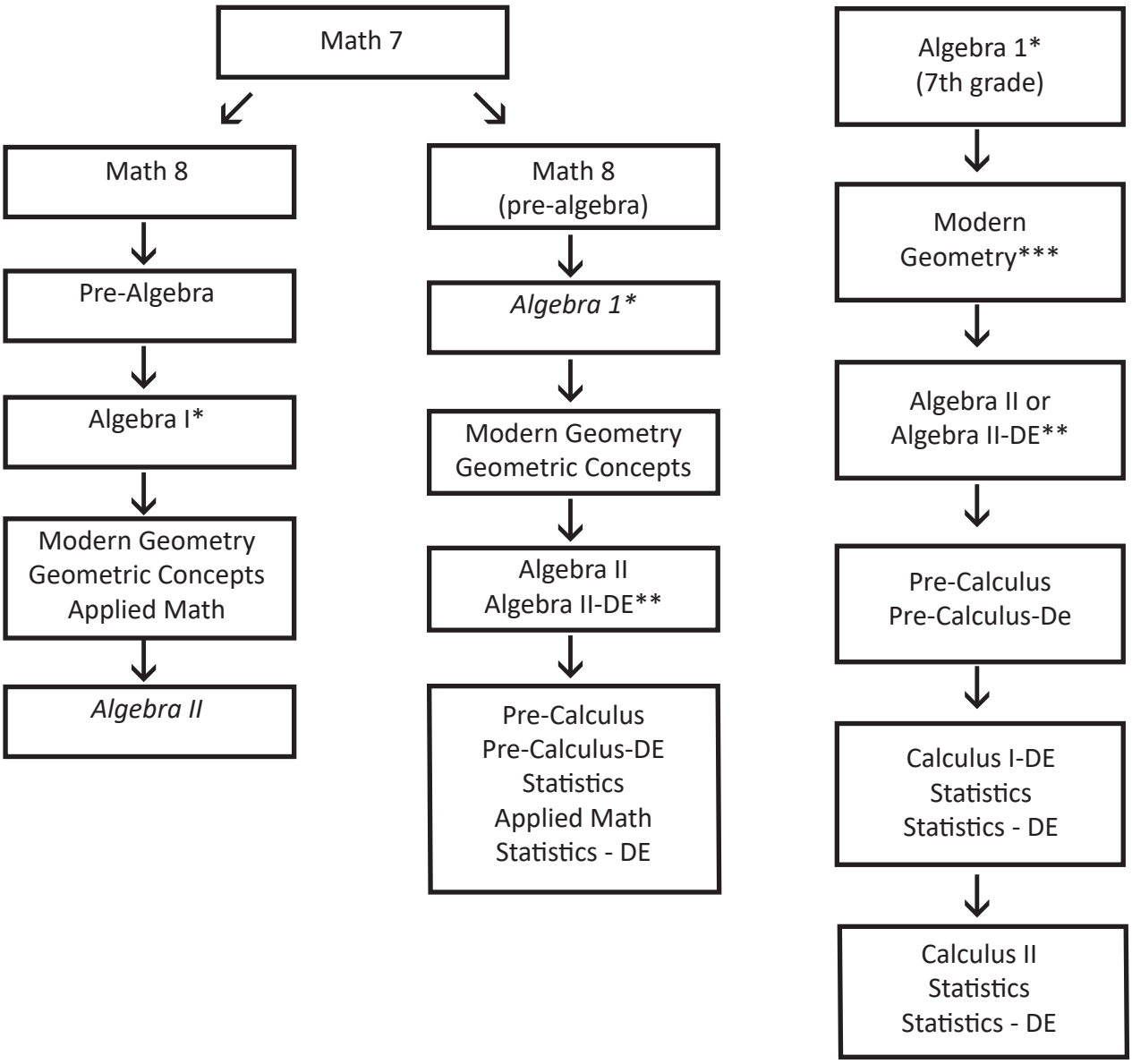
Class of 2025 ..... Minimum of 6 credits

Class of 2026 ..... Passed Grade 8

It is very important that the student and parents look closely and investigate thoroughly the needs of the student and their anticipated goals in reaching their career choice.

Math Curriculum Flow Chart

This flow chart below is designed to guide students in choosing the most beneficial sequence of math courses.



(*) At the end of Algebra I, students will take the Keystone Algebra exam.
(**) Students must have received Proficient or Advanced on the Keystone Algebra exam to be considered for Algebra II-DE course. It also requires having a 92% in Algebra I or teacher recommendation.
(***) Students who are not Proficient or Advanced on the Keystone Algebra exam must take Algebra II prior to Modern Geometry.
Note 1: Modern Geometry can be taken in the same year as Algebra II with teacher recommendation.
Note 2: Accounting I can be taken as a elective if a student has successfully completed Algebra I and is a sophomore, junior, or senior with teacher recommendation.

STUDENT'S NAME: _____ **Grade (next year): 9 10 11 12**

* = Prerequisite (see registration guide) / H* = Honors / DE**= Dual Enrollment through University of Pitt at Bradford

	9th	10th	11th	12th
English	English 9	English 10 English 10 - H *	American Literature American Literature - H*	Career-Technical English 12 British Literature 12 British Literature 12 - H*
Science	**Biology** STEM Robotic Smart Lab	**Applied Chemistry** **Chemistry** STEM Robotic Smart Lab Envirothon	Chemistry Applied Chemistry Conceptual Physics General Physics* AP Chemistry -H Envirothon Earth Science STEM Robotic Organic Chemistry Biochemistry Biology II - H* Smart Lab	Chem or Applied Chem Conceptual Physics General Physics* Physics II - H* Earth Science Biology II - H* AP Chemistry-H Envirothon STEM Robotic Organic Chemistry Biochemistry Smart Lab Anatomy & Physiology-H
Math	Pre-Algebra Algebra I Algebra II *Algebra II - H** Modern Geometry	Algebra I Algebra II* *Algebra II - DE*** Geometric Concepts Modern Geometry* Pre-Calculus *Pre-Calculus - DE***	Algebra I Algebra II* Algebra II - DE** Geometric Concepts Modern Geometry* Pre-Calculus Pre-Calculus - DE** Calculus-DE** Applied Math Statistics Statistics DE**	Algebra II* Algebra II - DE** Geometric Concepts Modern Geometry* Pre-Calculus Pre-Calculus - DE** Calculus-DE** Calculus II - H* Applied Math Statistics Statistics DE**
Social Studies	American History 9	American History 10 American History 10 - H*	World History 11 World History 11 - H*	Government
Language	French I* Spanish I*	French I* French II* Spanish I Spanish II*	French I* French II* French III* Spanish I Spanish II* Spanish III* Conversational Spanish/ Hispanic Culture	French I* French II* French III* Intermediate French - DE** Spanish I* Spanish II* Spanish III* Intermediate Spanish - DE** Conversational Spanish/ Hispanic Culture
Physical Education **Health**	Physical Education - 9 Health 9	Drivers Education Physical Education - 10	Physical Education - 11 Health 11	Physical Education - 12
Business	General Business 9 Movie Making/Multimedia	(Accounting I*) Movie Making/Multimedia	Accounting I* Financial Acct Concepts - DE** Movie Making/Multimedia Personal Finance	Accounting I* Financial Acct Concepts - DE** Movie Making/Multimedia Personal Finance

	9th	10th	11th	12th
Agriculture	Intro to Ag. Sciences SAE/FFA	Intro to Ag Sciences Natural Res. Man. * Ag. MechaniCS* Animal & Vet Science* SAE/FFA	Intro to Ag Science Natural Res. Man.* Ag. Mechanics* Animal & Vet Science* Plants & People - DE**(22-23) Intro. To Env. Sci-DE** (23-24) SAE/FFA	Intro to Ag Science Natural Res. Man* Ag Mechanics* Animal & Vet Science* Plants & People DE**(22-23) Intro. To Env. Sci-DE**(23-24) Adv. Agriscience* SAE/FFA
Computer Science and Technology	Comp. Science Essentials CS Fundatemals Python* Environmental Sustainability Essentials of Engineering	Comp. Science Essentials CS Fundatemals Python* Adv. Comp Sci Principles Cybersecurity Environmental Sustainability Essentials of Engineering	Comp. Science Essentials CS Fundatemals Python* Adv. Comp Sci Principles Cybersecurity Environmental Sustainability Essentials of Engineering	Comp. Science Essentials CS Fundatemals Python* Adv. Comp Sci Principles Cybersecurity Environmental Sustainability Essentials of Engineering
Art	Digital Photography Adobe/Photoshop Sculpture (23-242) Crafts (22-23) Drawing & Painting Yearbook	Digital Photography Adobe/Photoshop Sculpture (23-24) Crafts (22-23) Drawing & Painting The Business of Art Yearbook	Digital Photography Adobe/Photoshop Sculpture (23-24) Crafts (22-23) The Business of Art Advanced Art Drawing & Painting Art Appreciation - DE** Yearbook	Digital Photography Adobe/Photoshop Sculpture (23-24) Crafts (22-23) The Business of Art Advanced Art Drawing & Painting Art Appreciation - DE** Yearbook
Music	Sr. High Chorus Sr. High Band Music Theory	Sr. High Chorus Sr. High Band Music Theory	Sr. High Chorus Sr. High Band Music Theory	Sr. High Chorus Sr. High Band Music Theory
Industrial Technology	Industrial Tech I Drafting I Princ. Of Technology R&D	Industrial Technology I Industrial Technology II Drafting I Drafting II Princ. Of Technology R&D	Industrial Technology I Industrial Technology II Drafting I Drafting II Princ. Of Technology R&D	Industrial Technology I Industrial Technology II Drafting I Drafting II Princ. Of Tech R&D
English Electives	Literature in Film Classic & Cont. Fiction	Literature in Film Classic & Cont. Fiction	Communications Literature in Film Classic & Cont. Fiction	Communications Literature in Film Classic & Cont. Fiction
Social Studies Electives	Current Events	American Civil War Criminal Justice Current Events	Sociology/Pscychology American Civil War Criminal Justice Current Events	Sociology/Pscychology American Civil War Criminal Justice Current Events
Phys Ed/Health Electives	Fitness Lifting	Fitness Lifting	Fitness Lifting	Fitness Lifting
CTC Each program earns 3 credits per year. All programs are 3 years in length.		Health Assistant Welding Technology Auto Mechanic Build. Construction Heavy Equipment Maint. Engineering Technology Network System Tech. Culinary Arts Early Childhood Education Homeland Security	Health Assistant Welding Technology Auto Mechanic Build. Construction Heavy Equipment Maint. Engineering Technology Network System Tech. Culinary Arts Early Childhood Education Homeland Security	Health Assistant Welding Technology Auto Mechanic Build. Construction Heavy Equipment Maint. Engineering Technology Network System Techn. Culinary Arts Early Childhood Education Homeland Security

ENGLISH

English 9:

The English 9 course stresses the fundamental skills and strategies of reading, writing, listening, and speaking. Higher order thinking permeates all these areas of communication. Through reading and responding to a variety of genres, students will be introduced to elements of fiction, and non-fiction. This course is designed to be an introduction to basic forms and facets of literature. By generating different types of writing, students will expand their previous learning. Through acceptable mechanics and usage, the students will write utilizing various models as well as develop their own styles. Spelling and vocabulary are emphasized from literature as well as from recommended lists.

Credit: 1

English 10:

Grade 10 continues and reinforces the literature begun in Grade 9. Students will investigate the elements of major literary forms. Learning focuses on genre with increased attention to understanding elements and terms that enhance appreciation of short stories, non-fiction, drama, poetry and novels. A Shakespearean selection is also included for study. Throughout the course students will have opportunities to develop and refine writing skills as they respond to literature and in other writing assignments. Expository, narrative, compare/contrast, and persuasive writing will be emphasized. Vocabulary words will be taken from the literature and/or from outside sources. Grammar study will center on needs as evidenced in speaking and writing. Assessments include but are not limited to teacher made tests, writing assignments, and projects.

Credit: 1

English 10, Honors:

English 10 Honors is a survey course which reinforces the literature begun in grade 9. Students investigate the elements of literature, along with writing in multiple genres including short stories, non-fiction, drama, poetry, and novels. This course focuses on the development of close reading and critical analysis skills, along with the skills necessary to effectively communicate their thoughts orally and in writing.

Prerequisite: 95% in English 8 and 9 and teacher recommendation from the English 9 instructor.

Credit: 1

Keystone Literature:

This semester course provides a review of concepts included in the Literature Keystone Exam. This course will be assigned by administration as needed.

Credit: .5

American Literature 11:

Literature in Grade 11 is a survey course in American Literature that will coordinate with American history in U.S. History III when possible. The paramount works in American literature will serve as a basis for discussion and analysis. All genre, short story, essay, drama, poetry and novel, are included. Written and oral skills are expanded and a formal research paper is presented. Vocabulary words will be taken from the literature and/or from outside sources. Grammar study will center on needs as evidenced in speaking and writing. The students are encouraged through assignments and class discussion to increase their proficiency in these communications skills. Assessments include but are not limited to teacher made tests, writing assignments, projects, notebooks, and work sheets.

Credit: 1

American Literature 11, Honors:

English 11 Honors is a survey course in American literature focusing on close reading and analysis of texts, followed by written and oral responses that recognize thematic elements evident in those works studied. Students are provided ample scholarly models of literary analysis and are provided frequent opportunity to develop their own skills in this specific type writing.

Prerequisite: Successful completion of English 10 Honors or a 95% in English 10 and a teacher recommendation from the English 10 instructor.

Credit: 1

Career-Technical English 12:

Career-Technical English 12 is designed for those graduating seniors not intending to pursue post secondary education of an academic emphasis, and for whom interpretation of literature is not of primary importance. While fundamental cultural literacy and knowledge of major authors is acknowledged, certainly, major emphasis is placed on those more practical aspects of communication, both oral and written, which will serve its students in pursuit of careers in service industries, technical fields and the military. Much of the content focuses on refining those skills necessary to produce clear, concise, accurate expression of ideas through a fundamental mastery of grammatical and mechanical concerns of language.

Prerequisite: Successful completion of American Literature 11.

Credit: 1

British Literature 12:

Senior academic English is a survey course of British Literature from the Medieval Period through the 20th century, with special emphasis on development of essay writing skills, knowledge of grammar fundamentals as they apply practically to writing, and enhancement of vocabulary. Students will be responsible for a common body of core materials, as well as written or oral responses to materials investigated independently.

Credit: 1

British Literature 12, Honors:

Honors English 12 advances beyond the same British Literature platform presented in the College Preparation English 12 curriculum to encompass more advanced concepts of analysis and interpretation, as well as the introduction of fundamental critical theory. It is the intention of Honors English courses to adequately prepare its students to pursue English Studies at the college level, should they choose. More emphasis is placed on response to literature (in the form of analytical and interpretative essays) of a more complex nature, such as works by Joyce, Orwell, Conrad, Yeats, and others equally demanding, representing British authors.

Prerequisite: Successful completion of American Literature 11 Honors or a 95% in American Literature and instructor approval.

Credit: 1

Communications, Honors:
The first part of this course will be designed to familiarize students with the many contexts of human communication, such as interpersonal, small group, organizational, public speaking, and media communication. The second part will be to teach and provide practice the tenets of basic composition and to produce a properly documented research paper using MLA precepts and procedures.

Credit: 1

Literature in Film:
This elective class will examine literature and its portrayal through film. Students will compare and contrast written and film versions of various literary pieces. They will analyze the authenticity of the film to the original work and hypothesize as to why changes were made in the adaptation.

Credit: 1

Classic & Contemporary Fiction
This course is designed to allow students to explore classic and contemporary fiction in a classroom environment. Students will be able to expand and develop their skills in reading, writing, listening, and speaking through reading a novel and the composition and presentation of a book review. The course will serve as a setting for students to quietly and at their own pace read their favorite fiction and be introduced to new authors and novels for their future enjoyment.

Credit: .5 or 1

MATH
Pre-Algebra:
The pre-algebra course is designed to increase the students skills needed to be successful in algebra. They will be introduced to variables, expressions, order of operations and basic problem solving skills. The course also covers absolute value, the coordinate plane and different algebraic properties. The students will build on these skills by learning how to solve multi-step equations and inequalities and the complex algebraic functions that accompany them, such as exponents. They will build on their existing knowledge of fractions by examining ratios, proportions and probability, and converting to/from decimals. Additionally, students will be introduced to percents and problems requiring the application of percents.

Credit: 1

Algebra I:
Algebra I serves as the foundation for all future math courses in a student's secondary or post-secondary education. Students must use higher level thinking skills to solve problems conceptually and mathematically. Topics of study include graphing & solving linear equations, probability, rates, and systems of equations.

Credit: 1

Keystone Algebra:
This semester course provides review of algebra concepts included in the Algebra I Keystone exam. We will review topics such as, but not limited to, solving equations/inequalities, writing expressions and equations, graphing linear equations/inequalities, solving system of equations, exponents, and statistics. This course will be assigned by administration as needed.

Credit: .5

Algebra II:
Many of the topics explored in Algebra I will be applied in Algebra II in new settings. Algebra I will serve as a foundation for the topics we will explore in Algebra II. The class will explore sequence & series, statistics, data analysis, functions (linear/exponential/quadratic/logarithmic) and systems of equations. *Prerequisite: Successful completion of Algebra I.*

Credit: 1

Algebra II: (Dual Enrollment)
This is a Dual Enrollment Course through the University of Pittsburgh at Bradford.

The aim of this course is to provide students with an understanding of linear, radical, quadratic, exponential, and logarithmic functions and their graphs. Students will also study rational expressions, rational exponents, linear and compound inequalities, solving systems of linear equations, and solving quadratic equations.
Prerequisite: 92% in Algebra I or teacher recommendation. Proficient or advanced on Keystone Algebra Exam.

Credit: 1

Geometric Concepts:
Geometry comes from the Greek word meaning "measurement of the earth". There is nothing physical that does not have shape and size. Geometry then is a mathematical study of shapes and sizes of figures. It is made more attractive by attention to its presence in things around us and its application in practical ways to the solution of human problems. Students begin with given facts and observations and induce step-wise certain and useful conclusions. In this way, each student will not only learn all the geometry content covered in most high school courses but in the process learn to think clearly and logically. However, because the course is based on an informal approach, it will be within the grasp of any interested student.

Credit: 1

Modern Geometry:
This course, or Geometric Concepts, is required for all students. It is offered during the sophomore year and the only prerequisite is Algebra I. The conceptual levels of Geometry, visualization, analysis, informal reasoning, and deduction are discussed and developed as the student progresses through this course.
Prerequisite: Successful completion of Algebra I. This class can be taken in conjunction with Algebra II with teacher recommendation.

Credit: 1

Pre-Calculus:
The Pre-Calculus course consists of topics in Advanced Algebra, Trigonometry, and Pre-Calculus. Students will review past concepts dealing with Relations, Functions & Graphs and investigate new topics in this area as well. Trigonometry will make up the 2nd third of the course. No previous experience in Trigonometry is required. The last third of the course will deal with Advanced Functions and Graphing, which will include some Pre-Calculus topics, such as limits, maxima and minima values. This course is designed for students pursuing a 4 year college or university. Juniors taking this course are expected to take a Calculus class in their senior year.
Prerequisite: 80% in Algebra II and Modern Geometry.

Credit: 1

Pre-Calculus: (Dual Enrollment)

This is a Dual Enrollment Course through the University of Pittsburgh at Bradford.

This is a course which is a prerequisite for the calculus sequence. We will study functions and graphs (linear, quadratic, polynomial, rational, exponential, logarithmic, and trigonometric functions), analytic trigonometry, and solving systems of two equations in two variables. Students will learn graphing skills and techniques which are not only necessary for the calculus sequence but also for other science courses.

Prerequisite: 88% in Algebra II and Modern Geometry or teacher recommendation.

Credit: 1

Calculus: (Dual Enrollment)

This is a Dual Enrollment Course through the University of Pittsburgh at Bradford.

It is a basic introduction of the concepts of limits, derivatives and integrals, and how they apply to polynomials, trigonometric functions, logarithms, exponentials and other transcendental functions. A practical problem solving perspective is provided so that the skills have a context in business, science, technology, and other fields where Calculus is used.

Prerequisite: 88% in PreCalculus or teacher recommendation.

Credit: 1

Calculus II, Honors:

This course is the second of the three-term calculus of transcendental functions (exponential and trigonometric functions), integration techniques (integration by parts and by substitution), separable and first-order differential equations, improper integrals, infinite series, polar coordinates and graphs.

Prerequisite: 80% in Calculus I.

Credit: 1

Statistics:

Students taking statistics will re-examine statistical measures with which they are already familiar, and discover many new statistical tools and their application in real world settings. Topics will includes, central tendency, graphs/plots, normal curves, deviations, etc. By the end of the course, students will be able to analyze sets of data using numerous statistical measures.

Prerequisite: 85% in Algebra II and Modern Geometry or passing grade in Pre-Calculus.

Credit: 1

Statistics: (Duel Enrollment)

This is a Dual Enrollment Course through the University of Pittsburgh at Bradford.

This course covers methods of summarizing data, descriptive statistics, probability and probability distributions, sampling distributions, the central limit theorem, hypothesis testing, analysis of variance, and regression analysis. Mathematical derivations and formulas are stressed.

Prerequisite: Teacher recommendation.

Credit: 1

Applied Math:

Applied Math is a course on fundamental concepts of mathematics that will teach topics that apply mathematics to solve problems in the world outside of school. Topics to be covered will include computation with whole numbers, decimals, fractions, percentages, probability, statistics, graphs, measurement, perimeter, area volume, along with concepts of Algebra and Geometry.

Junior and Senior Elective only.

Credit: 1

WORLD LANGUAGES

The goal of the World Languages program is to equip students to function in a French-speaking or Spanish-speaking culture; to use the foreign language for a lifetime of personal enjoyment and enrichment; to appreciate the role of another culture in a global context; and to continue expanding communicative proficiency for further education as a life-long learner. A four credit sequence in a foreign language is recommended for all students in the college prep curriculum.

French I:

Open to all students in grades 9-12. Through a proficiency based approach incorporating all five models of communication,students will learn to use language at an intermediate low level.

Prerequisite: A grade average of 80% in English, or a teacher recommendation, is required.

Credit: 1

French II:

The use of the foreign language is expanded to multiple tenses to allow students to use the foreign language at an intermediate mid level.

Prerequisite: 80% final average in French I.

Credit: 1

French III:

Students will learn advanced structures to use the language at an intermediate high level.

Prerequisite: 80% final average in French II.

Credit: 1

FR 0203 Intermediate French: (Dual Enrollment)

This is a Dual Enrollment Course through the University of Pittsburgh at Bradford.

A more advanced study of spoken and written French, this course will enable students to continue to improve their oral-aural and reading-writing skills. Students will adapt the vocabulary and grammatical structures learned from the textbook and audio-visual material to their individualized situations in various assignments.

Prerequisite: 80% final average in French III.

Credit: 1

Spanish I:

Open to all students in grades 9-12. Students will learn to use the foreign language in a classroom setting.

Prerequisite: A grade average of 80% in English, or a teacher recommendation, is required.

Credit: 1

Spanish II:

The use of the foreign language is expanded to enable students to use the foreign language at a minimal level in the community. *Prerequisite: 80% final average in Spanish I.*

Credit: 1

Spanish III:

Students will learn to use the foreign language in order to be able to communicate as a tourist in a Spanish-speaking country. More emphasis is placed on oral comm-unication, reading and writing in the foreign language.
Prerequisite: 80% final average in Spanish II.

Credit: 1

SPAN 0203 Intermediate Spanish: (Dual Enrollment)

This is a Dual Enrollment Course through the University of Pittsburgh at Bradford.
Intermediate Spanish is an abbreviated course that combines the traditional material of intermediate Spanish I and intermediate Spanish II. The grammar component includes gustar and similar verbs; the uses of para and por; the two Spanish past tenses (the preterite and the imperfect); the use of se with indefinite subjects; reflexive verbs; and formal and informal commands. Also included are comparatives and superlatives; the present subjunctive, the conditional, and the present and past perfect tenses. The oral, reading comprehension and cultural components of the course are enhanced by a series of short films and readings of interest to students.
Prerequisite: 80% final average in Spanish III.

Credit: 1

Conversational Spanish/Hispanic Culture:

A course emphasizing developing conversational strategies in Spanish and designed to improve listening comprehension and vocabulary. In addition to conversation and listening skills, this course is designed to help students understand the influences of Hispanic culture in our everyday lives. Students will study customs, literature, film, cuisine, current events, and linguistics to become familiar with how language influences their culture and how culture influences language.

Credit: 1

SCIENCE

Biology:

Biology is a 9th grade required course. The subject matter includes information from units on cell biology, genetics, evolution, and ecology. Students will also use math skills, reading and writing skills, and learn some basic chemistry. Hopefully students will gain a better understanding about life from the cellular level all the way up to their interactions in their ecosystems.

Credit: 1

Keystone Biology:

This semester course provides review of biologic concepts included in the Biology Keystone exam: Module A - Cells and cell processes; Module B - Continuity and unity of life. This course will be assigned by administration as needed.

Credit: .5

Biology II, Honors:

This course is designed for college-bound students in 12th grade. Students will review information and concepts in the fields of cell biology, evolution, and genetics. They will also expand their knowledge base in these fields, and be asked to understand deeper concepts. New topics will include units on the 4 kingdoms uncovered in Biology I (plants, fungi, protists, and bacteria including viruses) as well as units on forensics and epigenetics. The text currently used in Biology II is used in many intro level college biology courses in college.
Prerequisite: 88% final average in Biology

Credit: 1

Biochemistry:

Biochemistry explores the structure and role of essential biological molecules focusing on carbohydrate, lipid, nucleic acid and protein chemistry. In this course we will survey the major classes of compounds in biological systems and study the chemistry of their reactions and pathways. Other topics to be studied inlcude enzyme structure and catalysis, DNA, RNA, and protein synthesis.
Prerequisite: Chemistry I

Credit: .5

Applied Chemistry:

This Chemistry course combines and emphasizes the role Chemistry plays in everyone's life with basic chemical knowledge. It is designed for the student leaning towards a trade or a non-science college track. This course will make you aware of your contributions to chemistry related issues in your environment. You will learn chemical facts, chemical concepts and scientific techniques that will help you understand societal issues addressed.

Credit: 1

Chemistry I:

Chemistry I is a college preparatory course. It is designed to give you a thorough foundation in theoretical and descriptive chemistry. This course will give you the skills needed for today's world and will emphasize problem-solving and critical thinking. If you are pursuing a career in the sciences or a health-related field this course is highly recommended. Content areas of this course include scientific terminology, mathematics applied to chemistry, matter and its changes, atomic structure, quantum mechanics, the periodic table, bonding, chemical composition, chemical equations, stoichiometry, states of matter, and the gas laws.
Prerequisite: Successful completion of Algebra I or concurrently enrolled in Algebra I ; also recommended for students with an 85% or higher in Biology.

Credit: 1

AP Chemistry:

AP Chemistry is equivalent to a freshman-level college chemistry course. AP Chemistry involves applying logic and critical thinking to show a depth of understanding. The goal of AP Chemistry is to provide the student with a foundation to understand the structure and properties of chemical substances and to make predictions in regards to energy movement in a system. The course is lab-based, focusing on quantitative and qualitative methods of analysis.
Prerequisites: 88% final average in Chemistry I and Algebra II

Credit: 1

Organic Chemistry

Organic Chemistry focuses on the properties and reactions of carbon containing compounds. Unlike Chemistry I or II, Organic Chemistry investigates classes of organic compounds and the mechanisms of their chemical reactions. It generally involves less math, but requires greater skills of pattern recognition and logical ordering of sequences of reactions.

Prerequisite: Chemistry I

Credit: .5 or 1

Conceptual Physics:

Conceptual Physics is a course designed for the student leaning towards a trade or a non-science college track. This course, while lighter on mathematics and problem solving traditionally covered in General Physics, will still provide a thorough background of the underlying physics principles of linear and rotational motion, forces, energy, momentum, heat transfer, vibration and waves, and electricity. Students use logic, reasoning, and basic algebra to apply physics formulas to real world situations. Additionally, students will learn to appreciate the physical rules of nature.

Credit: 1

General Physics:

General Physics is a course designed mostly for students going to college. It serves as a foundation for future work in mathematics, engineering and the sciences, including medicine. It also provides a basic understanding of the natural laws of the universe that may be applied in other careers, such as law, business, or even fashion. In this course we introduce motion, forces and energy from a conceptual and mathematical point of view. We apply this understanding to light, sound and electricity, and then extend this understanding to discuss objects that we find throughout the universe.

Prerequisite: 85% or higher in Chemistry I
and in Algebra II.

Credit: 1

Physics II, Honors:

Physics II is an extension of the college preparatory General Physics. It is a Pennsylvania Standards and Anchors based course that introduces students to the basic physical laws of the universe. During the course, students explore the interaction between forces, motion, energy and matter. New topics include electromagnetism, heat transfer, thermodynamics and quantum mechanics. Students use logic, reasoning, and math to apply physics formulas to real world situations. Additionally, students learn to appreciate the physical rules of nature.

Prerequisite: 85% in General Physics

Credit: 1

Earth Science:

Earth science is an upper level elective designed to explore the geological processes occurring above and below the surface of the earth. The major theme of earth science is change throughout the Earth's closed system. This course explains the concepts of weather, climate, rocks, minerals, internal processes of the earth, glaciation and the oceans. A major theme throughout the course is the application of earth science outside the classroom as well as in the classroom.

Junior and Senior Elective Only.

Credit: 1

Envirothon:

The Envirothon class has the potential to be a 3 year, 3 credit class, although 1 credit can be obtained by completing a single year of coursework. The focus of study will be our local (Pennsylvania) environment. Specifically, content will include forestry, aquatics, wildlife, soils, and a current environmental issues that will change every year. Students will not only have the opportunity to learn about several hundred species of local plants and animals, but also how they interact with each other and abiotic components of their environment. Select students will also have the opportunity to compete in a district level competition every year on the 5 topics mentioned above. These 5 tests that occur every year during the first week of May could serve as final exams each year.

Prerequisite: Sophomore, Junior, and Senior Elective Teacher recommendation required.

Credit: 1

Intro to Environmental Science: (Dual Enrollment)

This is a Dual Enrollment Course through the University of Pittsburgh at Bradford.

This course is an interdisciplinary study which presents a general overview of how nature works and how earth and life systems, including society, are interconnected. It examines how the environment is used and abused by humans, and what individuals can do to protect and improve it for future generations, and for other living things. This course will alternate every other year with Plants and People.

Credit: 1

Plants and People: (Dual Enrollment)

This is a Dual Enrollment Course through the University of Pittsburgh at Bradford.

The value of plants to society is introduced along with a discussion of the plants as part of the natural world. The course will examine the uses of plants by many cultures, past and present, for food, timber, fuel, clothing, religious activities, and medicine, among other uses. A basic introduction to the anatomy and ecology of plants will also be covered. This course will alternate every other year with Enviromental Science.

Credit: 1

STEM/Robotic:

In this course, student teams will work together, in a cross-curricular fashion, to succesfully compete in the Navy's annual Land, Sea, and Air Challenge. During this process students will learn to make proposals, design, test, and redesign working devices to complete the Navy's annual challenge. They will also learn to program robotics. This course will be both academic and hands- on in nature.

Credit: 1

Smart Lab:

Smart Lab Learners will explore and apply a wide range of technologies to project-based work. Students develop and practice real-world skills such as problem-solving, collaboration, project planning, and communication. Students create ePortfolios to document and present their work. Systems of technology explored

in the Smart Lab include: mechanics and structures; computer graphics; scientific data and analysis; digital communications; alternative and renewable energy; robotics and control technology; circuitry; and software engineering. Students may also be given the option to explore programming, coding. etc.

Credit: .5 or 1

SOCIAL STUDIES

American History 9:

This is a survey course that covers the period from the Civil War up to WWII. All students in the 9th grade are required to successfully complete this course. This class will include a great deal of cooperative learning activities during which we will examine the people, places, things and events of early American development. It is the goal of this class to make history an understandable, enjoyable and useful tool for students.

Credit: 1

American History 10:

This is a survey course that examines the period dating from pre-World War II through the present. All Students in the 10th Grade are required to successfully complete this course. This year-long class will include a great deal of cooperative learning activities during which we will examine the people, places, things and events of contemporary American historyand development. It is the goal of this class to make history an understandable, enjoyable and useful tool for students.

Credit: 1

American History 10, Honors:

Honors American History is for the serious student. This class will examine history in a manner with which many students are not familiar. In addition to the material presented in your text, Honors History will ask you to explore the causes and effects of those points presented in your text. You will be asked to be an active learner and participate in this class and in your own education. You will be expected to take ownership of your performance in this class. Being able to express yourself verbally and in writing is an important part of your success in this class. Independent reading and research are essential for you to keep pace in this class. *Prerequisite: 95% average in American History 8 and 9 or instructor approval is required.*

Credit: 1

American Civil War:

This course will preview the American Civil War from its inception until the assassination of President Lincoln on April 15, 1865. Students will study the essential people, documents, legislations, battles, and outcomes of both the Union and Confederacy during this time period. Additionally, students will be asked to conduct research on a variety of topics pertaining to the American Civil War. Lastly, students will be asked to use this research to write a lengthy research paper based on a Civil War topic of their choice. This course is available to students in grades 10-12. *Prerequisite: 90% in American History 9*

Credit: .5 or 1

World History 11:

World History allows the student to examine world history from a relatively moden perspective. The course will start with an examination of the Renaissance and Reformation and continue through the events and outcomes of WWII.

Credit: 1

World History 11, Honors:

Honors World history allows the student to examine world history from a modern perspective. The course will start with an examination of the Renaissance and Reformation and continue through the events and outcomes of WWII from a global viewpoint. Due to its honors status this particular course will research topics more in-depth placing emphasis on preparing the student toward college level writing, reading, and presentations. This course should be taken by students with an interest in world history and a desire to put extra effort in the exploration of such topics. *Prerequisite: 95% average in 10th grade history or an 88% average in 10th grade honors history,or instructor approval is required.*

Credit: 1

Government:

Government is a survey course required for all seniors, that will look at where our present national, state, county, and municipal government came from, how it operates today, and where it may go in the future. We will examine the institutions, personalities and workings of these entities through direct and practical contact. We will also look at your direct and indirect roles in the government and political processes. You will be asked to clarify your philosophy of government and participate in a number of debates and discussions. You will be given access to various means and methods of research and you will be asked to apply that research to numerous projects. Your willingness to participate in open debate and discussion can contribute greatly to your success in this class.

Credit: 1

Sociology:

Sociology is a survey course designed to introduce the student to the scientific study of groups, how they act, react, and interact. It also examines what role the individual plays in these groups and how groups influence individual behavior.An understanding of World History, American History, and Geography will supplement a command of material for this class. Mature 11-12 grade students.

Credit: .5

Psychology:

Psychology is a survey course designed to introduce the student to the scientific study of the unique nature of the human mind. After a brief examination of the scientific process, the student will be given an opportunity to meet the great thinkers in the field of psychology. They will examine the various types of psychological disorders. Finally, the class may choose from

a variety of psychological topics to complete their studies. Mature 11-12 grade students.

Credit: 1

Criminal Justice:

Introduction to Criminal Justice should involve (1) study of the agencies and processes involved in the criminal justice system, including the legislature, the courts, and corrections; 2) an analysis of the roles and problems of the criminal justice system in a democratic society with an emphasis on 4th, 5th, & 6th amendment considerations during police investigations, arrest, in pre-trial procedures, and while moving through the justice system. Careers in policing should be examined, including ethical considerations and standard protocols and dilemmas facing law enforcement on a daily basis such as matters involving use of force and the force continuum, so that students can make an informed decision whether or not to pursue the full range of careers and postsecondary opportunities in the criminal justice fields. This course will be open to all students in grades 10-12.

Credit: 1

BUSINESS

Accounting I:

Accounting I students are given an overview to the complete accounting cycle — initially for a service business and then for a merchandising business. Students become familiar with the terminology, procedures, and business forms used in the accounting field. Activities are completed manually with the possibility of introducing computerized accounting. Open to any Grade 10-12 students.
Prerequisite: Junior or Senior Standing or Sophomore with Teacher Recommendation. Successful completion of Algebra I.

Credit: 1

Financial Accounting Concepts: (Dual Enrollment)

This is a Dual Enrollment Course through the University of Pittsburgh at Bradford.
Financial Accounting Concepts is intended to provide the textual materials for the 1st semester accounting course at the college or university level. It provides exposure to many business topics, including forms of business organizations, typical business practices, legal instruments such as notes, stocks, and financial statements and analysis. Spreadsheets and other computerized accounting software may be used in analysis.All exams must be taken in-person (not virtually).
Prerequisite: 90% average in Accounting I

Credit: 1

General Business 9:

Required of all 9th grade students. This course is designed to give students a fundamental background of the business world in relation to the three roles all people play in our society — citizens, consumer, and worker. Students will be introduced to five major business topics: Domestic Business, International Business, Entrepreneurship, Careers, and Personal Finance.

Credit: 1

Movie Making and Multimedia:

This course introduces students to the exciting world of multimedia, a combination of sound, animation, graphics, and video. Students will work with movie making and multimedia software. Students will create their own movies and commercials.

Credit: .5

Personal Finance:

Students will develop the skills needed to make sound financial decisions in their current lives and future events. Topics will include planning your career, payroll and taxes, banking, credit, financing your automobile, mortgaging a home, insurance, renting an apartment, retirement, budgeting, purchasing, and basic economics.
Open to students in grades 11-12.

Credit: 1

COMPUTER SCIENCE

CS Fundamentals Python:

This course is designed to offer an introduction to computer science. Students will learn the basics of computer programming along with the basics of computer science. the material emphasizes computational thinking and helps develop the ability to solve complex problems. This course covers the basic building blocks of programming along with other central elements of computer science. It gives a foundation in the tools used in computer science and prepares students for further study in computer science, including AP Computer Science Principles and AP Computer Science A courses.
Prerequisite: Algebra I

Credit: 1

Advanced Computer Science Principles:

AP Computer Science Principles (AP CSP) is a full-year, rigourous course that introduces students to the foundational concepts of computer science and explores the impact computing and technology have on our society. The course covers a broad range of foundational topics including: programming, algorithms, the Internet, big data, digital privacy and security, and the societal impacts of computing.
Prerequisite: CS Fundamentals Python

Credit: 1

Computer Science Essentials:

Students will experience the major topics, big ideas, and computational thinking practices used by computing professionals to solve problems and create value for others. This course will empower students to develop computational thinking skills while building confidence that prepares them to advance to Computer Science Principles and Computer Science A.

Credit: 1

Computer Science Principles:

Using Python as a primary tool, students explore and become inspired by career paths that utilize computing, discover tools that foster creativity and collaboration, and use what they've learned to tackle challenges like app development and simulation.
This course is endorsed by the College Board, giving students the opportunity to take the AP Computer Science Principles exam for college credit.

Credit: 1

Computer Science A:
Students cultivate their understanding of coding through analyzing, writing, and testing code as they explore concepts like modularity, variables, and control structures.

Credit: 1

Cybersecurity:
Whether seeking a career in the growing field of cybersecurity or learning to defend their own personal data or a company's data, students in Cybersecurity establish an ethical code of conduct while learning to defend data in today's complex cyberworld.

Credit: 1

Engineering Essentials:
Students explore the breadth of engineering career opportunities and experiences as they solve engaging and challenging real-world problems like creating a natural relief center system or creating a solution to improve the safety and well-being of local citizens.

Credit: 1

Introduction to Engineering Design:
Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects like designing a new toy or improving an existing product.

Credit: 1

Principles of Engineering:
Students explore a broad range of engineering topics including mechanisms, strength of structure and materials, and automation, and then they apply what they know to take on challenges like designing a self-powered car.

Credit: 1

Aerospace Engineering:
Students explore the physics of flight and bring what they're learning to life through hands-on projects like designing a glider and creating a program for an autonomous space rover.

Credit: 1

Civil Engineering and Architecture:
Students learn important aspects of building and site design and development, and then they apply what they know to design a commercial buidling.

Credit: 1

Computer Integrated Manufacturing:
Students discover and explore manufacturing processes, product design, robotics, and automation, and then they apply what they have learned to design solutions for real-world manufacturing problems.

Credit: 1

Digital Electronics:
Students explore the foundations of computing by engaging in circuit design processes to create combinational logic and sequential logic (memory) as electrical engineers do in industry.

Credit: 1

Environmental Sustainability:
Students investigate and design solutions in response to real-world challenges related to clean and abundant drinking water, food supply, and renewable energy.

Credit: 1

Engineering Design and Development:
Students identify a real-world challenge and then research, design, and test a solution, ultimately presenting their unique solutions to a panel of engineers.

Credit: 1

INDUSTRIAL TECHNOLOGY
Drafting 1:
Students will learn how to produce mechanical drawings. They will start by using the drafting tables. They will learn aspects of and the basics of drafting. They will draw single and three view drawings. They will also learn how to sketch a 3D drawing. The second half of the year we will go over how to use the Auto CADD Software. Again, students will draw single and three view drawings. They will also learn how to construct a 3D drawing. Group and solo projects will also be included in this class.

Credit: 1

Drafting 2:
Students will learn a deeper level of the Auto CADD Software. They will go over programs such as Architectural, Mechanical, Inventor, Civil 3D, and Inventor Fusion. These are all programs in the Auto CADD Software. This would be a class for anyone interested in pursuing an engineering degree. Group and solo projects will also be included in this class.

Credit: 1

Industrial Tech 1:
In this course, students will learn basic wood working skills. They will go over different machines in the shop and learn the proper operation and safety associated with the machines. They will also learn to identify different types of wood. Students will pick a personal project to complete.

Credit: 1

Industrial Tech 2:
Students will learn advanced wood working skills. Students will learn how to use different techniques on different machines; examples: crown molding on the table saw and how to perform different cuts using a router. Students will also learn different joints and how to pick one that best fits the application needed. Students will pick a personal project to complete. Students will also do a unit on manufacturing. Students will mass produce a class project. Team work will be emphasized in this portion of the class.

Credit: 1

Principles of Technology R+D:
In this course the students will learn about various aspects in the technology field. They will discover how and why things work and how they affect previous and current societies. Students will be given a situation and problem they must solve. Students will learn about simple machines and how they work individually and together. Students will also go over problem solving methods. Students will be given a common goal and will see different methods that others used to solve it.

Credit: .5

AGRICULTURAL SCIENCE & TECHNOLOGY

Introduction to Agriscience:

Agriculture has changed the comfort, convenience, and safety of people today. Students who take this course will be exposed to a variety of agricultural industries including: Agriculture in the Information Age, Natural Resource Management, History of FFA and Agricultural Education, Plant Science, Integrated Pest Management, Animal Sciences, Food Science and Technology, Communications and Management in Agriscience, and Basic Safety in the Ag Mechanics Shop. This course is a prerequisite for any other agricultural course.

Credit: 1

Natural Resource Management:

This course will look at the preservation, exploitation, and conservation of natural resources. Students will study Soils and Land, Water, Forestry, Fish and Wildlife, Outdoor Recreation, Energy, Mineral, and Metals, and Advanced Concepts.
Prerequisite: Introduction to Agriscience.

Credit: 1

Animal & Veterinary Science:

Animal and veterinary science is based on basic science concepts in production animal agriculture and small animal care and management. Students will be studying topics on production agriculture animals, alternative agriculture animals, animal behavior, animal welfare, consumer concerns, comparative anatomy & physiology, nutrition, diseases, and surgery.
Prerequisite: Introduction to Agriscience

Credit: 1

Intro to Environmental Science: (Dual Enrollment)

This is a Dual Enrollment Course through the University of Pittsburgh at Bradford.

This course is an interdisciplinary study which presents a general overview of how nature works and how earth and life systems, including society, are interconnected. It examines how the environment is used and abused by humans, and what individuals can do to protect and improve it for future generations, and for other living things. This course will alternate every other year with Plants and People.

Credit: 1

Plants and People: (Dual Enrollment)

This is a Dual Enrollment Course through the University of Pittsburgh at Bradford.

The value of plants to society is introduced along with a discussion of the plants as part of the natural world. The course will examine the uses of plants by many cultures, past and present, for food, timber, fuel, clothing, religious activities, and medicine, among other uses. A basic introduction to the anatomy and ecology of plants will also be covered. This course will alternate every other year with Intro to Enviromental Science.

Credit: 1

Agricultural Mechanics:

This course will allow students to explore the field of agricultural mechanics. It will start with the basic information, such as careers and general safety, and the focus on mechanical skills and applications. The following topics will be addressed in this course: mechanics in agriculture, careers in ag mechanics, using the shop, tool ID, project planning, gas heating, cutting, and brazing, arc welding, power mechanics, agricultural structures, plumbing, and leadership and FFA.
Prerequisite: Introduction to Agriscience

Credit: 1

Advanced Agriscience 12:

This course is the final course for "completers" of the Agriscience program. In the course students will study advanced concepts in the following topics: Forestry, Ag Technology, Animal Science, Plant Science, Ag Business, Natural Resource Management, Leadership and FFA.
Prerequisite: Must be a senior and have taken at least 2 other ag courses.

Credit: 1

SAE/FFA 9-12:

Must have an SAE project with teacher recommendation.

Credit: 1

DRIVER'S EDUCATION

Drivers Education will utilize the *Pennsylvania Driver's Manual* as well as the *License to Drive* text to prepare students for both the written knowledge test and the behind the wheel road test. The course will also place an emphasis on responsibility for teenagers beginning to drive. We will follow the news to keep up on driving related issues and to serve as a reminder of the reality of traffic accidents and the seriousness of making poor decisions behind the wheel. To supplement the course content, we will complete a number of projects and try to include a guest speaker or two throughout the year.

Credit: .5

PHYSICAL EDUCATION

Physical Education – Grade 9—12:

Physical education in grades 9—12 will include the continued development of intermediate and advanced skills and knowledge for various sports and lifetime activities. The student will apply the skills and strategy in game and tournament settings. The student will also utilize fitness equipment and technology to enhance lifetime fitness.

Credit: .5

Health 9:

This course explores the rewards and consequences of choices made by adolescents as they approach adulthood. You will learn about managing stress, building healthy relationships, and mental health and suicide. The course not only focuses on the choices made by students, but also searches for an understanding of why students make the choices they do. Health 9 also focuses on the basics of food and nutrition, and the importance of regular physical activity. The skills and knowledge gained from health 9 are essential for young individuals moving on to adult life.

Credit: .5

Health 11:

Required of all students in grade 11. A wellness approach helps students examine their lifestyles, select goals, and make plans to achieve and maintain optimum health. The holistic effect

of behaviors in health areas such as mental health, growth and development, drugs, diseases and disorders, body systems, human sexuality and childbirth are the focus of this course of study. Current health topics will be incorporated and explored at the instructor's discretion.

Credit: .5

Anatomy and Physiology, Honors:

Anatomy and physiology is the study of the human body and how it works. A&P is a preparatory course for any student planning on entering a field of study in college that will deal with the body. This class will provide the opportunity for students to study and analyze the structures of the major body systems and how that structure dictates their function. Through lecture and hands-on study, students who successfully complete this class will have the basic knowledge needed to successfully complete any introductory college anatomy and physiology course. The use of 3-dimensional models, a variety of textbooks and interactive internet web resources will assist students in their search for the answers to questions such as "how exactly is it that my muscle contracts?" *Prerequisites: 90% in Biology I, or 85% in Biology II, 95% in Health 11, and Senior level status.*

Credit: 1

Fitness Class:

The fitness class will be geared around a combination of aerobics and anaerobic activities geared toward improvements in overall cardiovascular conditioning. Benefits of this course should be weight loss, reduction in BMI/Body fat percentage, and improved overall aerobic and anaerobic conditioning levels. We will use a combination of methods to achieve our goals that range from standard cardio workouts to HIIT (High Intensity Interval Training) including new training methods such as the Tabata protocol's as well as an 8 week program from HIIT Academy. The combination of these different methods includes old school training ideals with new scientifically proven training methods geared toward significantly increasing the amount of calories you burn during your 20 minute workout and substantially increasing the amount of calories burned for up to 36 hours after! There are no prerequisites for this class and current fitness levels do not matter as the program is geared toward you working at your own pace. This class is not a substitute for our regular physical education program. All students will be pre and post tested in the PACER test (independently of the PE test), have body fat test recorded as well as overall body weight.

Credit: .5

Lifting Class:

Weight training will provide students with the opportunity to develop and follow a lifting routine. The class will provide basic knowledge and safety information regarding proper weight lifting, however, it will leave the freedom for students to pick and choose their workout based on their needs and the goals they have for themselves. The stipulation is that students must design a total body workout approved by the instructor and they must follow their plan throughout the semester.

Credit: .5

ART

The Business of Art:

This class is for students who would like to learn and apply the entrepreneurial, artistic, and business skills needed to run any small business-particularly a business that has an artictic emphasis. However, although the class revolves around the visual arts, the concepts learned will be useful to anyone starting their own business. The following business concepts will be applied and implemented: creation of a business plan; recording of bookkeeping records; cost analysis; financial projections; creation and analysis of marketing plans; leadership; employee motivation; team-building; business communications; and ethics. *Prerequisite: Successful completion of General Business.*

Credit: 1

Yearbook:

This class produces *The Couderean,* the Coudersport High School yearbook. In this course, students will gain skills in the following areas: page design, publishing techniques, copy writing, editing, photography, record keeping, time management, teamwork, marketing, and leadership skills. Students are tasked with producing a timeless, creative, and innovative publication which will record our school's community, memories, and events. Students will be challenged with real world projects and assignments. High quality work is expected at all times. Students are also expected to participate in outside of class activities and meetings. This class is open to grades 9, 10, 11, and 12.

Credit: 1

Digital Photography:

This course is designed to study the techniques, history and materials of photography. Students will learn to take better photographs by learning the basics of camera operation and photographic composition. A variety of photographic subjects will be explored. Students will also learn how to use Adobe Photoshop to manipulate photographic images. There will be several photo assignments given — the majority of which will need to be completed outside of class time. **Students must have their own digital cameras.**

Credit: 1

Drawing and Painting:

This course is primarily a studio course designed for the student who wants to study the techniques, history and materials of drawing on a more intense level than in previous art classes. Each student will be creating various projects using such art media as pencil, charcoal, acrylic and oil paints, watercolor and ink. Students will also study various artworks, artists and other art-related topics.

Credit: 1

Adobe InDesign/Photoshop:

This computer lab class is designed to introduce two programs often used in the art field. Adobe InDesign is a program used to create layouts for magazines, newspapers and other publications. The Adobe Photoshop program is used by many professionals to manipulate, correct and enhance photographic images. This class is especially important for all those entering a Graphic Design, Journalism, Photography or related career field. It is also recommended for students who would like to be in the Yearbook class.

Credit: 1

Crafts: (every other year 2022-23)
This studio-based course is designed to teach students the art of crafts. They will learn various skills and techniques in order to create artworks that are of a more practical nature. Students will primarily be working on traditional and contemporary 3-dimensional projects that involve using materials such as clay, tiles, fabric, yarn, paper, metal, etc. Students will need to draw in preparation for projects, but the majority of the class time is spent on creating projects. The class will also include visits by artists, watching videos about artists, and participating in class discussions about student and artist works.

Credit: 1

Sculpture: (every other year 2023-2024)
This course will focus primarily on 3-D production, although some drawing will be required. Studio project work will include creating sculptures with non-ceramic materials including plaster, found objects, metal and other materials. Students will also have the opportunity to learn hand-building and wheel working techniques in clay to create both fine art and utilitarian ceramic pieces.

Credit: 1

Advanced Art:
This class is designed specifically for students who want to pursue studio work in a particular topic of art interest. Since this class is open only to students who have successfully completed at least two art electives, it is expected that they will build on those art skills that have already been acquired. It is highly recommended that this class be taken by any student who wishes to build an art portfolio in preparation for an art career or furthering his or her education in the visual arts.
Prerequisite: Must have previously taken 2 elective art courses

Credit: 1

MUSIC
Senior High Concert Choir:
This class is open to students in grades 9-12. There is no prerequisite. This is a mixed choir. Any student may join, with or without prior vocal experience. Students will sing a variety of musical genres in S.A.B and S.A.T.B as an ensemble. Students will learn to sing with proper vocal technique in order to produce the best sound possible as a vocal ensemble. Solfege and Kodaly will be used during warm ups and basic theory skills will be reinforced throughout the school year, students will be graded on daily participation, proper vocal rehearsal technique and participation in the Christmas and Spring choral concerts. Members of the high school show choir are required to be enrolled in concert choir in order to remain or audition for this select vocal group.

Credit: .5

Sr. High Band:
Students will work on more challenging music from a variety of genres. An understanding of musical terminology, history, culture, and its application will be included in learning the literature. Performances will include the Mid-Winter and Spring concerts as well as other community and school events. Grading will be based on attendance of rotating lessons, rehearsals, performance and written work. Students of all ability levels are eligible.

Credit: .5

Music Theory: (Full year, meets even days)
This is a beginning theory course designed to give students a basic knowledge and understanding of rhythm, melody and harmony. This course will include ear training,; the skills needed to sight read musical lines rhythmically and melodically will be acquired. We will be applying the Solfege system with moveable “DO” in major and minor modes. A basic understanding of music manuscript and composition will also be included throughout the course. Grading will consist of scores based on tests, quizzes both written and verbal, in-class graded assignments, and homework. There will be a final exam based on written theory and ear training.

Credit: .5

Seneca Highlands Career & Technical Center
219 Edison Bates Drive,
Port Allegany, PA 16743
(814) 642-2573

Automotive Mechanics — 3 Years

Students will perform service, repair, and maintenance procedures on various makes and models of gas powered engines. Training will include power trains, engine, suspension, brakes, exhaust and more. In addition students will gain hands-on training working with industry current tools and equipment. As an Auto Mechanic, students will be able to work in auto shops, after market manufacturers, and suppliers.

Career Opportunities - General Service Technician, Parts Clerk, Front End Specialist , Auto Body Repair

Certifications- PSI ~ PA State Inspection Certification

Building Construction — 3 Years

Construction is about building a bigger picture: the planning, coordination, and control of a project from inception to delivery. Students will learn to interpret blueprints and specifications, and construct wood products and structures from rough lumber to finish grade. They will learn the safe operation of a wide range of hand, power, and air tools. Students work on a variety of projects including sheds, decks, electric, plumbing, and drywall.

Career Opportunities - Finish Carpenter, Rough Carpenter, Construction Management, Carpenter Helper, Construction Business Owner ,Electrician Help

Certifications- OSHA ~ Ocupational Safety & Health Administration Certification

Culinary Arts — 3 Years

Culinary Arts offers a wide range of career opportunities for those who enjoy preparing exciting cuisines and have an eye toward business ventures. The students' education is enhanced by participating in various catering projects and the operation of a full-service restaurant. Students will learn the sanitary aspects of handling food including receiving, storing, preparation, and serving. Career opportunities in restaurants, resorts, country clubs, hotel/motel management; as well as cruise ships and airlines are abundant.

Career Opportunities - Cook, Pastry Cook ,Dining Room Host/Hostess, Food and Beverage Directors ,Food Sales ,Kitchen Helper, Nutrition/Dietary Aide, Waiter/Waitress

Certifications- ServSafe ~ Certification

Heavy Equipment Maintenance — 3 Years

Students will learn how to service, diagnose, repair, and rebuild gasoline and diesel powered trucks, tractors, logging and construction equipment. Additionally, students will develop skills in metalworking practice such as arc- welding, oxy/acetylene cutting and fabrication techniques with industry-related projects. This program provides training on Cummins virtual college.

Career Opportunities - Equipment Mechanics,Equipment Manager, Truck Mechanics, Parts Clerk

Certifications- PSI ~ PA State Inspection Certification ~ Penn College 4 Credits

Network Systems Technology — 3 Years

Students will gain proficiency in computer hardware, technology troubleshooting repair & maintenance, operating systems and software, network technologies, network media & topologies, network devices, network management, security fundamentals as well as industry related writing, mathematics, and professional skills. The curriculum lays the groundwork for several possible industry certifications including: PC Pro, Network Pro, A+, Network+, Cisco CCent.

Career Opportunities - Cable Installers, Computer Support Specialists, Network Administrators, Technology Coordinators, Computer Operators

Certifications- CCent ~ Cisco Certified Entry, Networking Technician Certification

Early Childhood Education — 3 Years

This childcare course is designed to provide students with the opportunity to learn the principles of child development and education. Upon successful completion of the course, students will be able to enter the workforce in such occupations as a daycare worker, or a pre-school teaching assistant. Students will be prepared upon graduation to obtain the Child Development Associate Credential; a national certification that is recognized by the industry. Included in the curriculum will be teaching in a school sponsored preschool program, planning activities for preschool, basic nutrition, first aid/ CPR, health and safety of young children, mandated reporter training and necessary clearances for employment with children.

Career Opportunities - Preschool aide ,Teacher's aide ,Assistant group supervisor, Preschool teacher, Elementary teacher ,Child care worker

Certifications- CDA ~Child Development Associate Ready Certificate

Health Assistant — 3 Years

Students who are caring, compassionate and possess critical thinking skills should check out Heath Assistant. Statistics from the Pennsylvania Department of Labor and Industry indicate that occupations in health care will continue to experience the highest growth rate. Students will be introduced to medical terminology and anatomy while learning about common disease conditions. Through scheduled clinical experiences at local long-term care facilities, students apply learned health care theory to actual "hands on" clinical practice.

Career Opportunities - Nurse Assistant, Medical Assistant, Home Health Aide

Certifications- STNA ~ State Tested Nursing Assistant

Homeland Security — 3 Years

A student in the Homeland Security program will acquire skills from the public safety areas of firefighting, law enforcement, and emergency services. Students can expect to receive instruction; participate in practical applications and situational learning experiences; and prepare to test for national, state, and local certifications in all three areas of public safety. Through exploration and physical practice of skills presented within the curriculum, students will be able to refine personal career opportunities and choose an area of specialization in public safety.

Career Opportunities - Emergency Medical Technician, Municipal Fire Fighter, Security Guard

Certifications- Emergency Medical Technician, Fire Fighter, Rescue

Welding — 3 Years

The Welding field is ever-changing, offers flexibility, and maintains a high demand for future employment and careers. Students will be introduced to the basics of welding (Stick, Tig, Mig, and Oxyfuel) and cutting processes (Oxyfuel, Plasma, and Air-Arc gouging). Students will be trained on how to select the best welding process needed to complete a job, while also taking into account cost and time effectiveness. As with any hands on job skill, training in safety will be paramount.

Career Opportunities - EngineeringInspection, Military Support ,Pipeline Installation, Project Management, Robotics

Certifications- AWS ~ Sense Level 1• American Welding Society Certification~ OSHA 10 HR.

Engineering Technology — 3 Years

This technical program prepares students to apply knowledge and skills in the engineering field. Basic instruction is provided in a variety of areas associated with engineering such as civil engineering, electrical and electronic engineering, electromechanical instrumentation, industrial production and mechanical engineering. Instruction includes but is not limited to electrical circuitry, electronic digital and microprocessor applications, high and low voltage applications, instrumentation calibration, prototype development, testing, inspecting, systems analysis and maintenance, applications to specific engineering systems, CAD/CAM, fluid power, heating and cooling, manufacturing systems, principles of mechanics, properties of materials, and report writing.

Career Opportunities - Quality Control Inspector, Draftsman/CAD Operator, Machine Operator, Facility Maintenance

Certifications- NIMS Certification, Cisco Certified ,A+ ,CompTIA.

Statewide High School Graduation Requirement Guidance

Requirements
For students graduating in 2023 and beyond, the following options exist to meet the statewide graduation requirement:

- **Keystone Proficiency Pathway**: Scoring proficient or advanced on each Keystone Exam - Algebra I, Literature, and Biology.
- **Keystone Composite Pathway:** Earning a composite score of 4452 on the Algebra I, Literature, and Biology Keystone Exams (while achieving at least a proficient score on at least one of the three exams and no less than a basic score on the remaining two).
- **Alternate Assessment Pathway:** Successful completion of a locally established grade-based requirements for academic content areas associated with each Keystone Exam on which the student did not achieve proficiency **and** one of the following:

✓ Attainment of an established score on an approved alternate assessment (SAT, PSAT, ACT, ASVAB);
✓ Gold Level on the ACT WorkKeys Assessment;
✓ Attainment of an established score on an Advanced Placement Program or an International Baccalaureate Diploma Program exam in an academic content area associated with each Keystone Exam on which the student did not achieve at least a proficient score;
✓ Successful completion of a concurrent enrollment course in an academic content area associated with each Keystone Exam in which the student did not achieve at least a proficient score;
✓ Successful completion of a pre-apprenticeship program; or
✓ Acceptance in an accredited 4-year nonprofit institution of higher education and evidence of the ability to enroll in college-level coursework.

- **Evidence Based Pathway:** Successful completion of locally established grade-based requirements for academic content areas associated with each Keystone Exam on which the student did not achieve proficiency and demonstration of three pieces of evidence consistent with the student's goals and career plans, including

✓ One of the following:
  - o Attainment of an established score on the ACT WorkKeys assessment, a SAT subject test, an Advanced Placement Program Exam, or an International Baccalaureate Diploma Program Exam;
  - o Acceptance to an accredited nonprofit institution of higher education other than a 4-year institution and evidence of the ability to enroll in college-level coursework;
  - o Attainment of an industry-recognized credential; or
  - o Successful completion of a concurrent enrollment or postsecondary course; and

✓ Two additional pieces of evidence, including one or more of the options listed above, or: satisfactory completion of a service learning project; attainment of a score of proficient or advanced on a Keystone Exam; a letter guaranteeing full-time employment; a certificate of successful completion of an internship or cooperative education program; or satisfactory compliance with the NCAA's core courses for college-bound student athletes with a minimum grade pont average (GPA) of 2.0.

- **CTE Pathway:** For Career and Technical Education (CTE) Concentrators, successful completion of locally established grade-based requirements for academic content areas associated with teach Keystone Exam on which the student did not achieve proficiency and attainment of an industry-based competency certification related to the CTE Concentrator's program of study or demonstration of a high likelihood of success on an approved industry=based competency assessment or readiness for continued meaningful engagement in the CTE Concentrator's program of study.