

Smethport Area High School Course Selection Guide

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GRADUATION REQUIREMENTS

The minimum requirements for a Smethport Area High School diploma are:

1. A minimum of twenty-four credits will be earned in grades nine through twelve for students in the graduating class of 2017 and 2018 must successfully complete a Graduation Project.

Proposed Change: A minimum of twenty-six credits will be earned in grades nine through twelve for students in the graduating class of 2019 and beyond.

2. The credits required to earn a diploma are composed of required courses and elective courses. The following required courses must be successfully completed:

Department	Course/Graduation Year	
English	English 9,10,11,12	
Mathematics	3 courses	2017 & 2018
Science	3 courses	2017 & 2018
Social Studies	4 courses	
Health	2 courses	Grades 9 and 11
Physical Education	4 courses (1 each year)	Grades 9,10,11,12
Driver's Education	1 course	Grade 10

Promotion Requirements

Grade levels for students will be determined each year based on total number of earned credits. Students are not allowed to change grade level at the end of the first semester, even if the number of earned credits meets the requirements for the next grade level.

To be eligible for grade placement a student must have earned the following minimum credits:

- Passed all required subjects in grade 8 to be promoted to grade 9
- Earned 6.5 credits to be promoted to 10th grade
- Earned 12 credits to be promoted to 11th grade
- Earned 18 credits (graduation classes of 2017 and 2018) and be scheduled to take all required classes for graduation to be promoted to 12th grade.
- Earned 24 credits (graduation classes of 2017 and 2018) required for graduation.

Course Grading

Marking Period and Final grades for courses will be given using numerical percentages based on a 100% scale. The highest numerical percentage grade possible for a course is 100%. The lowest numerical percentage grade that will be recorded as historic marking period grades will be 50% for marking periods 1, 2 and 3 without administrative approval. Teachers may record a lower percentage in the 4th marking period. AP courses will be weighted at the conclusion of the course by adding 10 points to the final percentage if the AP Exam is taken. For AP courses only, the final grade could be greater than 100%.

GPA Calculations

All GPA calculations are based on numerical percentages based on a 100% scale. Smethport Area High School can provide students and parents with three GPA Calculations:

Marking Period GPA: The marking period calculation is the GPA for all grades given in a particular marking period.

By Year GPA: The current year GPA calculation is the GPA for all grades given in a particular academic year. Reported for grades 9, 10, 11 and 12.

Cumulative GPA: A student's overall cumulative grade percentage is officially calculated using end of course percentages and credit earned. Cumulative grade percentage is calculated using all subjects for which credit is attempted. Generally the calculation is run at the close of the academic year. Overall final percentage is calculated by adding all final percentages earned for each class taken and that total divided by the number of credits attempted. The cumulative GPA calculation includes only completed courses. Reported for grades 9, 10, 11, and 12.

Class Rank

Class rank is based on the Cumulative GPA. It is calculated at the end of each academic year.

Valedictorian and Salutatorian

The Smethport Area High School chooses to name a Valedictorian and Salutatorian each year. Valedictorian and Salutatorian of the graduating senior class are selected using the following criteria:

- Must be a member of the 9th grade cohort. The senior class membership is determined by the year the graduating class started their 9th grade.
- Must have been a registered student at Smethport Area High School during the junior and senior years of the 9th grade cohort.
- The Valedictorian will be the student with the highest grade point average in the senior class that also meets the above criteria.
- The Salutatorian will be the student with the second highest grade point average in the senior class that also meets the above criteria.
- Teachers having seniors in a year-long or second semester class will project a final grade percentage on May 10th or the previous Friday if May 10th falls on a weekend. The district will run a projected final GPA and class rank based on these projections on May 10th for the purpose of selecting a Valedictorian and Salutatorian only. *(It is acknowledged that the final GPA and class rank for each student may be different when actual final grades are submitted at the close of the academic year. At the end of each school year the actual cumulative GPA and Class Rank is calculated. The students' actual GPA and class rank will be reported to post-secondary schools on final transcripts. The honor of being named Valedictorian and Salutatorian will not change even if rank changes.)*

Transfer/Home School Student GPA Calculation

Smethport Area High School includes all previous academic records for grades 9 –12 for transfer students on the student transcript.

- The school the student attended is listed with the grades for each year.
- A Cumulative GPA will be calculated, using numerical percentages, for all completed courses to date.
- If a student’s academic record does not include numerical percentages, numerical percentages will be recorded as follows:
 - The school counseling department will attempt to obtain percentages from the students’ previous school.
 - If percentages are not available the school counselors will record a numerical percentage using the previous schools grading scale if available. If a scale is not available, the Smethport Area High School Scale will be used. The numerical percentage given will be:
 - A letter grade without a “+” or “-” will be given the numerical percentage in the middle of the range for that grade on the scale being used.
 - A letter grade with a “+” will be given the highest numerical percentage for that grade on the scale.
 - A letter grade with a “-” will be given the lowest numerical percentage for that grade on the scale.

Curricular Programs of Study

The Smethport Area High School has three major curricular programs. These programs are designed to prepare students for further education and/or the proficient skills needed to enter the job market.

Accelerated College Prep and Academic College Prep – These programs are designed for the student who plans to continue his/her education at a four-year college or university upon graduation.

Tech Prep/Career Prep - Designed for students who plan on pursuing an associate degree or certification in a technical program, entering the military or directly entering the workforce upon graduation.

Seneca Highlands Career & Technical Center

The Seneca Highlands Career & Technical Center located in Port Allegany, PA is a consortium school owned by the following school districts: Austin Area, Cameron County, Coudersport Area, Galeton Area, Northern Potter, Oswego Valley, Otto-Eldred, Port Allegany and Smethport Area. Students attend the CTC on a half-day basis where they receive vocational-technical training in one of ten distinct skill areas. These areas include: Automotive Mechanics, Building Construction Occupations, Culinary Arts, Cosmetology, Health Assistant/Allied Health Careers, Heavy Equipment/Maintenance, Metalworking Occupations, Welding Technology, Network – IT Essentials and Networking Systems Technology.

Course Availability Statement/Course Drop Procedure

This booklet describes all courses offered at Smethport Area High School. The school reserves the right to delete, postpone, or alter course offerings because of insufficient interest, enrollment or other unforeseen factors. Program outlines are provided for both college-preparatory students and technology/career-preparatory students.

The number of students signing up for a course during the registration process determines how many sections of the course are scheduled into the master schedule. The assignment of teaching staff is also made in accordance with these course registration numbers. Therefore, it is imperative that students thoughtfully consider their course selections at the time of course registration. If circumstances change after the time of course registration, the student is asked to contact the school counseling office. Students who register for courses during the initial registration process are expected to participate in these courses unless scheduling conflicts require a change in their schedule.

Placement into the appropriate level of a course is very important. Our faculty has found that students who meet the published prerequisites are most likely to be successful in the course. Students are expected to be challenged yet not frustrated.

Students will be provided with a copy of their schedule for the year on the first day of school in the fall. Students should review **all** scheduled courses for the year carefully. If the student finds they have a concern with their schedule, they should complete a Schedule Change Request. The student's counselor will review the request. **All schedule changes for both semesters must be made during the first (8) days of school in the Fall.** No changes will be made to a student's schedule after the first 8 days without the approval of the high school principal and the change is deemed necessary. Necessary changes fall into the following categories:

- The student had no schedule or an incomplete schedule due to a master schedule conflict.
- A course is needed for promotion or graduation purposes.
- The student lacks a necessary prerequisite for a course.
- The student has passed and received credit for the course previously.
- A course must be changed to accommodate an administrative need.
- Other extenuating circumstances will be considered by the principal and counselor.

Career Cruising – CareerCruising.com is a web based career exploration program available to all students at Smethport Area Jr/Sr High. To get into the site our user name is **smethport** and the password is **hubbers**. Each student has their own user name and password to gain access to their portfolio. Students can take a career and learning styles assessment on Career Cruising. As they research careers, students can learn about training programs and colleges. They can watch interviews with persons in their field of interest. They can save their searches to their portfolio. Students receive an initial introduction to Career Cruising in grade 7. This is to satisfy the requirement that students develop a career portfolio by grade 8 as specified in the PDE Career Education and Work Standards.

College Courses

Smethport Area High School encourages students to participate in courses that will earn them college credit. Smethport Area High School offers several courses in conjunction with the University of Pittsburgh at Bradford that can be taken for college credit. Dual Enrollment courses are noted as such in the Program of Studies Guide each year. Students and parents are responsible for all college course fees.

Students can elect to participate in college classes on college campuses. These can be taken to complete high school graduation requirements. Students considering this option must discuss their intentions with the school counselor and principal. Students and parents are responsible for all fees and transportation.

Students can receive high school credit for college courses taken. Courses are given the same credit value as similar Smethport High School courses. College level courses are not weighted.

If a college class that is taken on a college campus is not being taken to meet a Smethport High School graduation requirement, the student may choose to not have the college course grade included in their Smethport High School GPA/class rank.

Potter County Education Council offers classes through Gannon University in the evenings at Smethport Area High School. These are distant learning classes. Students can interact with the professor and other students taking classes at other sites. Information is in the guidance office.

Post-Secondary Education/Admissions Requirements

Any student who plans to continue his/her education beyond high school in a technical school, community college, or four-year college or university should select courses that will meet the admission requirements of that institution. The admission requirements of colleges and universities differ widely, so it is important that the student research admission requirements for the school(s) in which he/she is interested. Information for this purpose is available in the school counseling office, on Career Cruising (www.careercruising.com) and through the PHEAA/AES online college planning site: www.educationplanner.com

Glossary

Some of the words and terms used in this booklet may not be familiar. The following brief explanations may be helpful.

Advanced Placement (AP) – These courses are intended for academically talented students whose abilities, interests, and demonstrated levels of performance illustrate that they can do difficult, college-level work in high school. Students may earn advanced standing at many colleges by earning high scores on the Advanced Placement Test taken at the end of each AP course. Students taking this class may elect the course to be weighted by adding 10 percentage points to their final grade if they take the AP® test at the end of the course. There is a fee for the test. The student is responsible for the exam fee. The tests are prepared by Educational Testing Services (ETS) and are administered at Smethport High School in May.

Class Rank – A procedure by which each student is ranked according to his/her overall final percentage grade average.

Credits – Credit is earned upon successful completion (passing grade) of a course. Smethport Area School District awards credit as follows:

- 1.2 Credits - Science Lab Course that meets daily all year with 1 extra lab period per week.
- 1.0 Credit - A course that meets daily all year
- .6 Credit - A course that meets 3 times per week all year
- .5 Credit - A course that meets daily for one semester
- .4 Credit - A course that meets 2 times per week all year

Dual-Enrollment Courses – In agreement with the University of Pittsburgh at Bradford, qualified students may apply for dual-enrollment in specific courses offered at Smethport High School. After successful completion of the course, students will receive one high school credit. Students will also receive college credit from the University of Pittsburgh at Bradford. Fees may be assessed by the college for these courses. Information is provided by the classroom teachers regarding college requirements and fees.

Elective Course – Electives are courses that students choose to study. Elective courses cannot be taken in place of required courses. They are selected to satisfy total course requirements for graduation in addition to the required courses. Any elective must meet enrollment requirements in order to be scheduled.

Keystone Exams - The Keystone Exams are end-of-course assessments designed to assess proficiency in the subject areas of Algebra I, Literature, and Biology. The Pennsylvania Department of Education has proposed future testing in the areas of Algebra II, English Composition, Chemistry, U.S. History, and Civics and Government.

The Keystone Exams are one component of Pennsylvania's high school graduation requirements. Keystone Exams will help school districts guide students toward meeting state standards.

NCAA Requirements – Students interested in participating in **athletics at the college level** should visit the NCAA Clearinghouse website, print out the College-Bound Student-Athlete Guide and become very familiar with the “Core Course” and SAT/ACT requirements. They can be very different from the college admissions requirements and in most cases are more stringent. The NCAA Initial-Eligibility Clearinghouse has very specific course requirements for students wishing to participate at the Division I or Division II level. Smethport Area School District courses accepted as “Core Courses” by the NCAA Clearinghouse are designated in the course descriptions. The NCAA Clearinghouse must declare student athletes wishing to participate and be eligible for athletic scholarship/participation at the Division I and II levels during their Senior year. Any student considering participation in Division I or II athletics must register with the NCAA Clearinghouse after their Junior year. It is imperative that the student and/or parent notify the school counselor that he/she is applying to the Initial-Eligibility Clearinghouse so that the appropriate scheduling can be maintained. It is highly recommended that all student athletes become familiar with the NCAA requirements by visiting the NCAA Clearinghouse website at www.ncaaclearinghouse.net.

Prerequisite – A prerequisite is a course or requirement that a student must complete in order to qualify for entry into another course. If a prerequisite is required before taking a course, the prerequisite is listed in the course description. Prerequisites can also come in the form of teacher recommendations.

Required Course – A required course must be passed by all students in order to qualify for a diploma.

Semester – A semester is one-half of a school year.

Transcript – A transcript is the official student academic record. Colleges and technical schools always request an official transcript. One is often sent when students apply for scholarships. It is also important to know that employers have requested high school transcripts. For a transcript to be “official”, it must be sent directly from the school counseling office and contain an official signature and the school seal. The transcript contains the final grades for all courses taken during grades 9,10,11, and 12. It also includes attendance history, class rank, GPA, and SAT/ACT scores.



PROGRAMS OF STUDY – FOUR YEAR PLANS

Accelerated Academic Track

(recommended for students considering a four-year college)

Accelerated College Prep				
Core Course Selections – Minimum 7 credits must be scheduled each year				
Subject	9th Grade	10th Grade	11th Grade	12th Grade
English	Adv. English 9	Adv. English 10	Adv. English 11	Adv. English 12
Mathematics	Adv. Algebra II	Adv. Geometry	Trigonometry & Pre-Calculus	AP Calculus AB or Calculus
Science	Biology 9	Chemistry	Physics	AP Physics 1 and/or Adv. Biology and/or Organic Chemistry
Social Studies	Adv. American History 9	Adv. World History 10	Adv. US/World History 11	Adv. Economics and Am. Government
Technology	Computer Applications			
Foreign Language	1 st year of an offered language	2 nd year of an offered language	(3 rd year or 2 nd language recommended)	(4 th year or 2 nd language recommended)
Physical Education and Health	Phys. Ed 9 and Health 9	Phys. Ed 10	Phys. Ed 11 and Health 11	Phys. Ed 12
Drivers Education		Drivers Ed.		
Electives	1 credit of Electives or Study Hall	2 credits Electives or 1 credit Elective and Study Hall	3 credits Electives or 2 credits Electives and Study Hall	3 credits Electives or 2 credits Electives and Study Hall

Academic Track- College Prep
(recommended for students considering a four-year college)

Academic College Prep				
Core Course Selections – Minimum 7 credits must be scheduled each year				
Subject	9th Grade	10th Grade	11th Grade	12th Grade
English	English 9	English 10	English 11	English 12
Mathematics	Algebra I	Algebra II	Geometry	Trig. & Adv. Math or Trig. & Pre-Calculus
Science	Biology	Chemistry	Physics	Elective(s) AP Physics
Social Studies	American History 9	World History 10	US/World History 11	Economics and Am. Government
Technology	Computer Applications			
Foreign Language	1 st year of an offered language	2 nd year of an offered language	(3 rd year or 2 nd language recommended)	(4 th year or 2 nd language recommended)
Physical Education and Health	Phys. Ed 9 and Health 9	Phys. Ed 10	Phys. Ed 11 and Health 11	Phys. Ed 12
Drivers Education		Drivers Ed.		
Electives (student must register for 7 credits)	1 credit of Electives or Study Hall	2 credits Electives or 1 credit Elective and Study Hall	3 credits Electives or 2 credits Electives and Study Hall	3 credits Electives or 2 credits Electives and Study Hall

Academic Tech Prep Track
for students planning to attend
a 2-year college or technical program or enter the job market.

Tech Prep/Career Prep				
Core Course Selections – Minimum 7 credits must be scheduled each year				
Subject	9th Grade	10th Grade	11th Grade	12th Grade
English	English 9	English 10	English 11	English 12
Mathematics	Algebra I Algebra IA	Algebra IB Algebra II	Geometry	(*Consumer Math 2018-2019) Trigonometry & Adv. Algebra
Science	Biology	App. Physics I	Applied Physics II	(*Science 2018-2019)
Social Studies	American History 9	World History 10	US/World History 11	Economics and Am. Government
Technology	Computer Applications			
Foreign Language				
Physical Education and Health	Phys. Ed 9 and Health 9	Phys. Ed 10	Phys. Ed 11 and Health 11	Phys. Ed 12
Drivers Education		Drivers Ed.		
Electives (student must register for 7 credits)	2 credits Electives or 1 credit Elective and Study Hall	3 credits Electives or 2 credit Elective and Study Hall	3 credits Electives or 2 credits Electives and Study Hall	3 credits Electives or 2 credits Electives and Study Hall

COURSE DESCRIPTIONS

ART

Art I - Grade 9-12

Art I is a basic survey course introducing the student to many different media. Various crafts are introduced as well as the Elements and Principles of Design. Students also study art history. Craftsmanship and how to display and appreciate finished works are areas that are covered during each project.

Art II - Grades 10-12

Prerequisite: Art I

Different areas of Art are delved into deeper than Art I. The student is encouraged to become more familiar with advanced areas and techniques, both in class projects and independently. Samples of areas covered in this course are leatherwork, painting, graphics and sculpture. To enroll in Art II, the student must have successfully passed Art I.

Art III - Grades 11-12

Prerequisite: Art II

This is for the highly interested and motivated art student who wishes to attain a skilled proficiency in advanced art areas. Due to the amount of independent work required in these advanced art courses, the artist must have a high degree of self-motivation. Outstanding interest, effort and achievement must be displayed in Art II and the student must have successfully passed Art II.

Art IV - Grade 12

Prerequisite: Art III

This is for the highly interested and motivated art student who wishes to attain a skilled proficiency in advanced art areas. Due to the amount of independent work required in these advanced art courses, the artist must have a high degree of self-motivation. Outstanding interest, effort and achievement must be displayed in Art III and the student must have successfully passed Art III.

BUSINESS

Computer Applications – Grade 9

This course is a full-year, required course for all freshmen. The course will focus on the following topics: The World of Banking, Career Exploration, and Planning for a Career. How does that apply to Computer Applications? The student can apply the banking theory using Microsoft Excel, research a career of choice and prepare a Microsoft PowerPoint presentation, and use Microsoft Word to complete a letter of interest, resume, and thank you letter.

Accounting I - Grades 10-12

Applies fundamental understanding to the theory required in any system of Accounting so the student will understand what an employer expects. This is accomplished through a variety of accounting procedures including work projects and work sets.

Accounting II - Grades 11-12

Prerequisite: Accounting I

A course designed to take those students that show an aptitude for this kind of work and teach them more advanced procedures so they will have a better background and, as a result, become better employees. Students who have successfully passed Accounting I with a C or better are encouraged to continue in the program. Students enrolling in Accounting II must have completed prerequisite Accounting I.

Advanced Computer Applications and Basic Web Page Design – Grades 10-12

This full year course is designed around advanced word processing skills, which will enable students to learn how to merge documents, import and export information to other applications, create newsletters, menus, business cards, brochures and other business related documents using Microsoft Word and Publisher. Digital photos will also be worked with in the different software applications. The Web-page design portion will be learning how to create basic web page designs using Macromedia Dreamweaver.

Introduction to Database – Grades 10-12

This one semester course is designed to provide an opportunity for students to receive training using a computerized database management system, known as Microsoft Access. Students will master introductory concepts and techniques of database design and usage as they relate what is learned in the classroom to the real world. Students will design, create, access, and manage a set of files using tables, forms, queries, and reports similar to those used in business, industry and government today. College or career bound, this course may be considered a valuable asset to the student. This is a project-based course.

Introduction to Spreadsheets – Grades 10-12

This one semester course will focus on the computer program, Microsoft Excel. The students will learn how to create, generate and manipulate a computer spreadsheet for business reports and graphs. The course is designed to explore the features of the software package in the context of personal finances and business situations. College or career bound, this course is a valuable asset to the student. This is a project-based course.

COLLABORATIVE STUDIES

Collaborative Studies comprises the courses for students receiving education through their Individual Education Plan. Students and their parents as members of the student's IEP Team develop the student's program of studies. Students should use the course numbers listed in the Collaborative Studies block in the course numbers section of this guide when completing their course selection sheets.

DRIVER EDUCATION

Driver Education - Grade 10

This course is a full-year, 2 day per week, required course for all sophomores. Driver Education can help develop the knowledge and skills essential to safe driving. Equally important is the development of attitudes to share the road and cooperate with other users in the highway transportation system. The student is exposed to material pertaining to the use of the automobile in the highway environment. The material includes safety procedures, laws, ownership and the adverse elements of the environment, alcohol and the road system.

Behind-the-Wheel

The student applies knowledge gained in the classroom to actual situations that confront drivers during the operational phase of the automobile. This training teaches basic fundamentals to help build a foundation that a driver uses throughout his/her life. This course will be offered after school and during the summer by scheduling with the Driver Education Instructor. Students are assessed a lab fee for this course.

ENGLISH

English Language Arts will give students the necessary tools, skills and procedures for effective communication. Language use and literature will be two major focal points. Students will be engaged in the classroom activities of reading, writing, speaking, listening and researching. English is required for all students, grades nine through twelve, at each grade level. In addition, students may opt to take an elective offered by the English department.

English 9 - In English 9, students will gain an understanding of the processes for composing texts, where relative content, basic grammar, vocabulary choice, and mechanics will be reinforced. Students will participate in the processes necessary for conducting and presenting research. Literature will be read with emphasis on comprehension and understanding literary terms. NCAA Core Course

Advanced English 9 – In Advanced English 9, different genres of literature will be explored with attention to literary terms and various functions of language that help to create meaning. The processes of conducting research, composing texts and presenting to an audience will help students to expand their knowledge of focus, form, content, usage, grammar and mechanics. Speaking opportunities will develop listening and speaking skills. NCAA Core Course

English 10 - In English 10, the students will be exposed to and learn all of the same skills that are taught in Advanced English 10. The students in English 10 will do more of the work and reading during class, and the pace will not be as fast as Advanced English 10. **Students will take the Keystone Literature Exam at the conclusion of this course.** NCAA Core Course

Advanced English 10 - In Advanced English 10, the students will be exposed to a variety of literature, including poems, short stories, novels and plays. The students will also review the concepts of grammar and different types of writing: essays, short stories and reports. This course is more fast-paced than regular English 10, and the students will be expected to do more of the work and the reading independently. **Students will take the Keystone Literature Exam at the conclusion of this course.** NCAA Core Course

English 11 – Using a variety of texts and genres, many from the American literary tradition, students in English 11 will read critically, write in a variety of modes and present to both small and large groups. Students will explore language usage and style in the context of use, in both published texts and in tests of their own. A strong focus will be on expository writing and research skills. In addition to several smaller papers, a major research paper is a requirement for the successful completion of this course. NCAA Core Course

Advanced English 11/Composition 1 – Advanced English 11 has Composition 1, a College in High School Course, embedded within it. The Composition Course is offered by the University of Pittsburgh @ Bradford for a fee. Students can earn three college credits by electing this option. Enrolled students will have access to the University library and computer system. Five papers- a narrative, a description, a comparison/contrast, an illustration, and a synthesis- are requirements of both the high school and the college level course. NCAA Core Course

English 12 – Using English literature as a basis, this course will focus on the reading, writing, and speaking skills which will allow students to be successful communicators as they prepare for life and work. NCAA Core Course

Advanced English 12 – Using English literature as a basis, this course will focus on literary periods, nuances of language and the literary devices which when understood contribute to meaning, interpretation and analysis of various works. Writing, speaking, thinking and research skills will be further developed so students are prepared for higher education or vocations. NCAA Core Course

Advanced Placement English Literature and Composition – Grade 12

This course is aligned with The College Board’s definition of AP English and Composition. It is a strenuous course meant to enable students to not only analytically read, but also to write appropriate to the college level. Students will complete weekly reading assignments to develop thought provoking writings. These writing assignments will be cyclical: that is, students will continually revise drafts to develop their rhetorical skills. The course will consist of several units focusing on genre and contextual study. Students will read a variety of works representing British and American writers from the 17th Century to modern literature.

Because the course is dense, there will be a summer reading list and journal assignment. This course will culminate with the AP English Literature and Composition Exam in the spring. The exam is based on a five-point scale; a three will earn students credit at universities accepting AP credits. Students taking this class may elect the course to be weighted by adding 10 percentage points to their final grade if they take the AP® test at the end of the course. There is a fee for the test. The student is responsible for the exam fee. NCAA Core Course

Creative Writing – Grades 10-12

Creative Writing is a one semester elective for students with an interest in creating original texts in a number of genres. Students will focus on grammar, sentence variety, word choice, emphasis, audience, purpose, mechanics and design. Students will work to create, understand, and evaluate their own writing processes and style. Students will select and present original work to an audience. NCAA Core Course

Public Speaking – Grades 10-12

This one semester elective course consists of a series of basic speaking experiences designed to train students to be aware of the essentials in good communication and to prepare and present different types of speaking situations effectively. All speeches are given before the class or a designated group. NCAA Core Course

FAMILY AND CONSUMER SCIENCE

Exploring Foods I - Grades 12

Ever wonder what determines the color of an eggshell? What causes the holes in Swiss cheese? How does a soda fountain work? Come in and learn facts about the foods we love and eat today. Select and learn how to alter recipes to your liking. Discover how relaxing and enjoyable cooking can be. Along with food labs you will participate in creative projects and various assignments to enhance your learning experience. Students must submit a \$5 fee per semester contributing to food labs.

HEALTH EDUCATION

Ninth and Eleventh grade students are required to take Health. The goal of the Health course is to motivate students to build healthy lifestyles through the development of life skills based on age-appropriate content information. Students will be encouraged to think for themselves and develop responsibility for their own health. In order to obtain this goal the following areas will be studied:

- 1) Personal Health
- 2) Nutrition
- 3) Community and Environmental Health
- 4) Mental Health
- 5) Consumer Health
- 6) Family Life and Sex Education
- 7) Drugs and Narcotics
- 8) First Aid and Safety Education

Care and Prevention of Athletic Injuries – Grade 12

This is a one-semester elective course offered through the University of Pittsburgh at Bradford for 3 college credits. In order to take this course, it is strongly recommended that the student have a C average or higher in Biology and consider taking Advanced Biology. This course introduces the student to methods of prevention, recognition, treatment, and rehabilitation of athletic injuries, conditioning programs, administrative policies and other major concerns conducted in an athletic training setting. This course is designed as an introduction to many health-related fields, including athletic training, physical therapy, pre-med, strength and conditioning, exercise physiology, and individuals interested in coaching.

PHYSICAL EDUCATION

Physical Education is required of all students in Grades 9 through 12. A well-founded program of physical education with a wide variety of activities is available to all students each year. The program provides an opportunity for students to try a variety of activities and enable them to acquire knowledge and some skills in a number of individual and team activities. A continuity of progression is encouraged when the schedule permits. Each student is required to sign up for a course in physical education every year.

LANGUAGES

Spanish I - Grades 9 – 12

In this introductory course, students will learn strategies for communicating competently and effectively in Spanish with acceptable standards of pronunciation and grammatical correctness. Emphasis is placed on communication in the present tense as well as on the acquisition of vocabulary. Cultural aspects of the Spanish-speaking world are also emphasized. NCAA Core Course

Spanish II – Grades 10 - 12

This course will begin by reviewing the content of Spanish I. Students will then move on to more advanced grammatical forms while continuing to enlarge their vocabulary. As with first year Spanish, this course emphasizes cultural aspects of the Spanish-speaking world. Spanish I and II together provide a strong foundation for students needing to continue Spanish at the intermediate level in college. NCAA Core Course

Spanish III & IV – Grades 11 - 12

In Spanish III and IV, students further develop their grammatical knowledge and vocabulary skills through the reading of novels, short stories, poems, and cultural excerpts as well as through the viewing of movies in Spanish. In addition, aspects of the course are tailored to meet the Spanish-speaking needs of students going into specific professions such as health care and law enforcement. Spanish III and IV together provide adequate preparation for the SAT subject test in Spanish. NCAA Core Courses

German I – Grades 9 - 12

In this introductory course, students will learn strategies for communicating competently and effectively in German with acceptable standards of pronunciation and grammatical correctness. The four skills – listening, speaking, reading and writing – will be covered and a particular emphasis will be placed on vocabulary acquisition. NCAA Core Course

German II – Grades 10 - 12

This course is a continuation of the first year course and will begin by reviewing the content of German I. Students will then move on to more advanced grammatical forms while continuing to enlarge their vocabulary. Students will also apply their knowledge of German to selected readings. This course provides strong preparation for students planning on continuing their German studies at the intermediate level in college. NCAA Core Course

German III – Grade 11, 12

In German III students will review and expand the skills they acquired in German I and II to work with a variety of authentic German texts: short stories, poems, contemporary articles, and songs. They will broaden their knowledge in the areas of communication and culture while increasing their writing and reading practice in German.

MATHEMATICS

Algebra 1—Grade 9

This course is a continuation of Math 8, which means the student must have developed a strong foundation in the previous course. The student will continue working in the same textbook, as the material will build in both intensity and difficulty. After a short review, the student will be exposed to new concepts dealing with adding, subtracting, multiplying, and dividing polynomials and rational expressions, simplifying radical expressions, solving percent problems, solving systems of equations, finding probabilities, writing numbers in scientific notation, and solving word problems dealing with fractions, decimals, percents and consecutive integers. **Students will take the Keystone Algebra I exam at the conclusion of this course.** NCAA Core Course

Algebra IA and IB – Grade 9 and 10 (by recommendation)

Algebra 1A/1B is a two year course which will cover all topics in a traditional one year Algebra 1 course. The slower pace will allow time for intervention as needed. Algebra 1A covers solving and graphing linear equations and inequalities, reading and interpreting word problems, and understanding functional relationships using graphs, charts, and tables. Algebra 1B covers solving and graphing linear equations and inequalities, reading and interpreting word problems, solving quadratic equations by graphing, by factoring, by completing the square, and by the quadratic equation, understanding functional relationships using graphs and charts, and working with rational and irrational expressions to solve simple rational and radical equations. **Students will take the Keystone Algebra I exam at the conclusion of Algebra IB in grade 10.**

Algebra II - Grade 10, 11, 12

Prerequisite: Algebra I

The purpose of this course is to strengthen and expand Algebra I skills, as well as to lead the students into developing the skills related to basic geometry. Concepts of algebraic proofs, relationships, graphs, operations, geometry skills, etc. are implemented in this course. Throughout the entire course, the student will deal with application problems associated with each concept of the course. NCAA Core Course

Adv. Algebra II – Grade 9

Prerequisite – Adv. Math 8

The purpose of this course is to strengthen and expand Algebra I skills, as well as to lead the students into developing the skills related to basic geometry. Concepts of algebraic proofs, relationships, graphs, operations, geometry skills, etc. are implemented in this course. Throughout the entire course, the student will deal with application problems associated with each concept of the course. NCAA Core Course

Geometry-Grade 11,12

Prerequisite—Algebra II

The purpose of this course is to allow students to develop a deep understanding of mathematics through thinking, reasoning, and problem solving. Students will be engaged in mathematical discovery through the use of differentiated approaches and visual instruction. The course will begin by introducing the basic tools of Geometry and continue into reasoning and proofs. The students will then study parallel and perpendicular lines, congruent triangles and triangle relationships, polygons, quadrilaterals, similarity, area, surface area, and volume. The course will conclude with the study of right triangles and the trigonometric relationships. This course will cover many of the concepts needed to excel on both the SAT and ACT college entrance exams. NCAA Core Course

Adv. Geometry – Grade 10

Prerequisite –Adv. Algebra II

The purpose of this course is to use techniques from coordinate geometry to establish properties of lines, shapes, and solids. Use arguments based on transformations to establish congruence or similarity of 2 dimensional shapes. Create justifications for arguments related to geometric relations. NCAA Core Course

Trigonometry and Advanced Algebra – Grades 11-12 Prerequisite –Algebra II and Geometry. The purpose of this course is to strengthen and expand algebra skills, as well as to lead the students into developing the skills related to trigonometry. The course will begin with a review of advanced algebra skills and advance into more complex concepts dealing with trigonometric functions, their graphs, and trigonometric identities. Throughout the entire course, the student will deal with application problems associated with each concept of the course. NCAA Core Course

Trigonometry and Pre-Calculus—Grades 11-12

Prerequisite – Successful completion of Advanced Algebra II and Geometry

This is a college level course and students may elect to receive three college credits through University of Pittsburgh at Bradford for a fee. The course is Math0098 College Algebra II. The material moves at a very steady pace requiring the student to complete daily homework assignments using the TI-84 Graphing Calculator. It is also the prerequisite for Calculus, so there are many topics that the student must master within the school year. These topics include solving both right and oblique triangles using trigonometric functions, Law of Sines, and Law of Cosines, simplifying trigonometric expressions and equations using the Pythagorean identities, ratio identities, reciprocal identities, graphing the six trigonometric functions and their inverses, half-angle and double-angle formulas and several Pre-Calculus topics. The course will conclude with a cumulative final exam that will be weighted as one-fifth of the final average. Once the student has successfully completed this course, he or she may advance into Calculus or AP Calculus AB. NCAA Core Course

Calculus - Grade 12

Prerequisite – Successful completion of Trigonometry

This is a college level course and students may elect to receive four college credits through University of Pittsburgh at Bradford for a fee. The student must have successfully completed trigonometry in order to register for this course, as it is also a rigorous college level class. The year will begin with an intense review of algebra, functions, trigonometric functions, logarithmic functions and conic sections. The course will progress into the study of limits, which will lead us into derivatives. The year will conclude with the study of integrals. This course will provide the student with a solid foundation of the concepts presented in a college level Calculus I course. Although the theory behind each concept will be touched upon, the majority of the course will not be theoretical. Instead, we will focus on the concrete topics presented in the text. All the concepts needed to “test out” of a college Calculus I course will be studied. The course will conclude with a cumulative final exam that will be weighted as one-fifth of the final average. NCAA Core Course

Advanced Placement Calculus AB®—Grade 12

Prerequisite – Successful completion of Trigonometry and Pre-Calculus

This course is designed with the idea that students learn best when they have an intuitive understanding of the concepts of Calculus. Not only will students learn the mechanics of each of the concepts, but they will also learn the *why* behind each of the major topics. This will help prepare the student for the AP Calculus AB Exam given in May. The course will begin day 1 with an intensive study of limits, derivatives, and integrals. These topics will be studied from four different perspectives—numerical, verbal, analytical and graphical. The TI-84 Calculator will be an integral part of this course, as it is required for the AP Exam. This course will cover all of the concepts presented in a college Calculus I course as well as half of a college Calculus II course. This is a fast moving course that requires a significant amount of work outside the classroom (in order to thoroughly prepare for the AP Exam). The student’s grade will be weighted due to the difficulty level of the course. The course will conclude with the AP Exam given in May. Students taking this class may elect the course to be weighted by adding 10 percentage points to their final grade if they take the AP® test at the end of the course. There is a fee for the test. The student is responsible for the test fee. NCAA Core Course

MUSIC

Junior Choir – Grade 9

Junior Choir provides an introduction to three and four-part choral music. Emphasis is placed on the changing voice as a means of producing music. Choreography is also introduced to the students. The choir participates in several performances for the school and for the public, including Christmas and Spring Concerts. Junior choir includes eighth and ninth grade students.

Concert Choir – Grades 10-12

Concert Choir is an elective course for those who wish to use their voice to continue their music education. Musical experiences in concert choir focus on studying and performing a wide variety of four-part vocal music ranging from standard choral literature to modern music. Choreography is also an important part of the concert choir experience. Solo and small ensemble singing are an extension of the choir.

Note: Students should be aware that they will be called upon to perform at functions held outside the regular school day (concerts and rehearsals which must be scheduled after school hours to accommodate the public). They are expected to participate unless excused by the director.

Junior Band – Grade 9

In Junior Band the students will continue to develop their musical abilities on their chosen instrument. Through graded lesson books and performance music, the student will strengthen their musical abilities in melody, rhythm, harmony and form. Membership in the Junior Band is by demonstration of satisfactory performing level on a band instrument. Junior Band includes eighth and ninth grade students.

Senior Band – Grades 10-12

The band at the senior high level may be thought of as a laboratory situation using actual music as its text or reference. It concerns itself with the elements of music (melody, rhythm, harmony and form) and their application to the immediate problems of the music being used. Specifically the band concerns itself with the student's ability to:

- A. Improve his/her performance skills.
- B. Acquaint himself/herself with a variety of music literature and style.
- C. Develop independent study habits.
- D. Familiarize himself/herself with ensemble and solo performance.

Each student studies from a graded lesson book and progresses at his/her own rate. Membership in the Senior Band is by demonstration of satisfactory performing level on a band instrument.

Note: All members of Junior and Senior High Band are expected to participate in the Marching Band which includes summer practices, parades, after-school practices, football games and competitions. The only exceptions to this would be conflicting activities or special circumstances arranged between the parent and the director.

Show Choir – Grades 10 – 12

Prerequisites – Audition Required

The Choral Director will audition and interview each student for this select ensemble. A variety of music with choreography will be performed. All students are expected to attend after school rehearsals and performances. Show Choir members are also members of Concert Choir and perform with the Concert Choir.

SCIENCE

Biology – Grade 9

This course is designed to cover the basic concepts in biology. Basic topics include ecology, anatomy and physiology, genetics, evolution, microbiology, plants, animals and cells. This course includes labs. **Students will take the Biology Keystone Exam in spring.**
NCAA Core Course

Biology A and B – Grade 9 and 10 (by recommendation only)

This course is designed to cover the basic concepts in biology. Basic topics include ecology, anatomy and physiology, genetics, evolution, microbiology, plants, animals and cells. **Students will take the Keystone Biology exam at the conclusion of Biology B in grade 10.**

Chemistry – Grades 11 and Accelerated Grade 10

Chemistry is the human attempt to understand the interaction of atoms, molecules and compounds. Group work will be stressed in the laboratory and group activities. Individual work will be stressed for daily review and learning of new concepts since chemistry knowledge accumulates. Applied principles of Algebra will be used to solve many chemistry problems. NCAA Core Course

Concepts of Chemistry

Prerequisite: Chemistry

Concepts of chemistry/Advanced Science -- a second level course designed to prepare students for college level chemistry. The course is a full year course, beginning in August 2015 and ending in June of 2016. There will be 36 weeks of class which are outlined below. This course includes labs. The class will be offered to juniors and seniors and credit can be earned for chemistry through UPB. NCAA Core Course.

Physics – Grades 11-12

This course is to provide an introductory study of matter and motion and of energy and its transformations. This is accomplished by examining such areas as Mechanics, Heat, Wave Motion and Light, Electricity and Magnetism and Nuclear Physics. Approximately one fourth of the student's time is laboratory oriented with the remaining time spent on theory and problem solving. This is a one-year course and is to meet six periods per week. This course includes labs. Pre-requisite: the student must have completed Chemistry and should be enrolled in Trigonometry. NCAA Core Course

Applied Physics I – Grades 11-12

This course is designed to cover the basic concepts of physics and how they apply to life, industry, and the future. Topics include motion, force, torque, machines, energy, momentum, heat, and electricity. NCAA Core Course

Applied Physics II – Grade 12

This course is a continuation of Applied Physics I. Topics include: electricity, magnetism, electrical circuits, waves, sound, and light. Pre-requisite: Applied Physics I. NCAA Core Course

Advanced Placement Physics I – Grade 12

AP Physics 1 is equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It also introduces electric circuits. This course includes labs. Students taking this class may elect to receive 10 bonus points added to their final grade if they take the AP[®] test at the end of the course. There is a fee for the test. The student is responsible for the exam fee. NCAA Core Course

SOCIAL STUDIES

American History 9 – Grade 9

This is a full year American History course required for all ninth grade students. This is a content oriented course that covers the pre-Civil War Era up to post World War I. Students will use a variety of methods and materials to learn the content. NCAA Core Course

Advanced American History 9 – Grade 9

This is a full year American History course designed for advanced students. It is a content oriented course that covers the pre-Civil War Era up to the early 1900's. The areas that will be covered are: The Constitution of the United States, The Civil War, Settling the Frontier, The West, The Invention Era, Immigration and Big Business. Current Events will also be a major topic in this course. Students will use a variety of methods to learn the content. NCAA Core Course

World History 10 – Grade 10

This is a full year world history course required for all sophomores. With use of an array of methods and materials, this course covers the development of ancient civilizations through the discovery of the New World. An emphasis will also be placed on worldwide current events with weekly assignments and discussions. NCAA Core Course

Advanced World History 10 – Grade 10

This course is a full year course that uses many different methods and materials. It covers the development of ancient civilizations to the Age of Exploration. An emphasis is placed on research with a more in-depth coverage of World History. NCAA Core Course

US & World History 11 – Grade 11

20th Century History is a survey course of 20th Century US and World History from 1914. Special attention will be given to how the modern world today evolved. Domestic and international issues are studied both chronologically and topically. Major international events that shape the world as well as each 20th Century presidency will be studied. NCAA Core Course

Advanced US & World History 11 – Grade 11

Advanced 20th Century History is an intensive survey course examining significant issues and historical development of major world events that evolved during the 20th Century as well as earlier major world events which affected the course of 20th Century World History. Events that shaped today's world will be examined in depth. NCAA Core Course

American Government & Economics – Grade 12

This is a full year course required for all seniors. The following topics will be studied: the US Constitution, the Congress, the Presidency, the Executive Branch Agencies, the Legal System, Supply & Demand, Labor & Business, and Personal Finance. In addition, current government developments and foreign relations will be studied as real world events arise. Students are expected to complete independent work, group and/or individual projects, writing assignments, and exams. NCAA Core Course

Advanced American Government & Economics – Grade 12

This course is offered as a higher-level alternative to the general course required for all seniors. It is a dual-enrollment course, offering students 3 college credits via the College in the High School program through the University of Pittsburgh at Bradford. Participation in CHS is not required to take the course, but students who opt to earn the 3 credits will be responsible for the tuition fees. ‘Successful completion’ of this course (specifics defined by UPB) will be the equivalent of UPB’s *American Political Process* course. It will contain both added rigor and content to meet the requirements of the college class. Students will be expected to work independently; grades will be earned on tests, writing assignments, projects, and a final exam, rather than traditional high school homework. The following topics will be studied: the Constitution, Federalism, Congress & the Legislative Branch, the Presidency & the Executive Branch, Foreign Policy & National Security, the Supreme Court & the Judicial Branch, the US Legal System, Civil Liberties & Equal Rights, Interest Groups & Political Parties, Supply & Demand, Business & Labor, and Personal Finance. In addition, current government developments and foreign relations will be studied as real world events arise. NCAA Core Course

TECHNOLOGY EDUCATION

Students are required to pay for materials in the Technology Education courses.

Applied Technology - Grade 9-12

This is a full year course centered on engineering/design and problem solving activities. Students will participate and compete in state and national engineering and design competitions. Students will have the opportunity to discover and explore a vast array of technologies within a real world setting.

Manufacturing Enterprise: Grade 9-12

This is an introductory course into technical drawing/CADD and materials processing. In this course, students will learn how to create detailed plans for the creation of a project using CADD software. Students will also learn to safely use different tools and machinery to manipulate raw materials to solve a problem. Students will be involved in individual and group work. Interested students should have well-developed basic math skills. This course is required for admittance into all advanced Technology Education courses (Principles of Engineering, Construction Technology, Advanced CADD Systems and Architectural CAD).

Advanced Materials Processing Electives

(Manufacturing Enterprise is a prerequisite for the following 2 courses)

Construction Technology: (2016 – 2017) Grades 10-12 Prerequisite: Manufacturing Enterprise

This course is designed to give students the opportunity to explore the world of construction. Students will learn about traditional as well as non-traditional building techniques. Students will be actively involved in project based learning in this course. Students will also study auxiliary system like heating, power, and communication systems.

Principles of Engineering and Design: (2017- 2018) Grades 10-12

Prerequisite: Manufacturing Enterprise

This course gives students the opportunity to use their creativity as well as their knowledge of machine safety and materials processing to design and create a one of kind student driven projects. Each project will require the students to solve some sort of problem. Students will also learn and use the design process throughout this course.

Advanced Technical Drawing/Auto CAD Electives

(Manufacturing Enterprise is a prerequisite for the following 2 courses)

Architectural CAD – Grades 10-12

Prerequisite: Manufacturing Enterprise

This class is for students interested in technical drawing and/or architecture. Students will study aspects of home design and construction. Students will design structures using AutoDesk Architectural software. All parts of the structure from the foundation to the electrical system will be designed. Students will deal with 2-dimensional and 3-dimensional drawings. Students will also explore small-scale modeling.

Advanced CAD Systems Grades 10-12

Prerequisite: Manufacturing Enterprise

This course is for students who have completed Technical Drawing with AutoCAD. The course deals specifically with advanced 3-D modeling. The course is centered around drawings that are mechanical in nature. Students will be exposed to drafting techniques and software used in most of today's industrial settings. Topics of study range from simple mechanical sketching to advanced 3-D part manipulation.

TEST PREPARATION

Keystone Preparation Classes – Grade 9 - 12

These courses are designed to strengthen the skills necessary to gain proficiency on the Pennsylvania State Keystone Tests. Students who have not scored at the proficient level in the Keystone Algebra, Biology and/or Literature test(s) will be assigned to the appropriate Keystone class for preparation. Students do not register for these classes.



Seneca Highlands Career and Technical Center

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<p>AUTO MECHANICS</p> <p>PROGRAM LENGTH 3 years</p> <p>CERTIFICATION PA State Inspection License</p>	<ul style="list-style-type: none"> -Service, repair, and maintain engines -Work on valve trains, suspension, brakes, and exhaust systems -Use current tools/equipment such as scanning tools and computerized front end aligner -Prepare for a career as a Front End Mechanic, Brake Repairer, Transmission Specialist or Automobile Mechanic -Students should have good mechanical problem solving and measurement skills and be willing to work in a sometimes dirty work environment 	<p>BUILDING CONSTRUCTION</p> <p>PROGRAM LENGTH 3 years</p>	<ul style="list-style-type: none"> -Build a residential house from the ground up -Interpret blue prints and specifications -Construct wood products and structures from rough lumber to finish grade -Operate a wide range of hand power tools, air tools, and machines -Prepare for a career as a Carpenter, Construction Carpenter, Construction Manager or Business Owner -Students should have good measurement skills, be able to work at heights up to 50 feet and be willing to work in inclement weather
<p>COSMETOLOGY</p> <p>PROGRAM LENGTH 3 years</p> <p>CERTIFICATION Cosmetologist License</p>	<ul style="list-style-type: none"> -Learn in a patron clinic -Cut, color, and style hair -Perform manicures, pedicures, and makeup application -Schedule appointments, inventory, and order supplies -Prepare for a career as a Cosmetologist, Nail Technician, Salon Manager and/or Owner or Makeup Artist -Students must pass a physical examination prior to enrollment 	<p>CULINARY ARTS</p> <p>PROGRAM LENGTH 3 years</p> <p>CERTIFICATION ServSafe Sanitation Certificate</p>	<ul style="list-style-type: none"> -Work side-by-side with professional chefs -Make gourmet foods with artistic presentation -Participate in catering projects and in the operation of a full- service restaurant -Prepare for a career as a Cook, Pastry Cook, Kitchen Helper or Waiter/Waitress -Students must be willing to taste food, learn French cooking terminology, work in the public eye, and should have good measurement skills
<p>HEALTH ASSISTANT</p> <p>PROGRAM LENGTH 2 years</p> <p>CERTIFICATION Nurse Aide/ Child Care Aide</p>	<ul style="list-style-type: none"> -Work side-by-side with health care professionals -Learn medical terminology and anatomy -Practice hands-on care -Gain clinical experience at long-term care facilities -Prepare for a career as a Nurse Assistant or Medical Assistant Students must have a good health record and be able to accept and carry out precise orders 	<p>HEAVY EQUIPMENT MAINTENANCE</p> <p>PROGRAM LENGTH 3 years</p> <p>CERTIFICATION PA State Inspection License</p>	<ul style="list-style-type: none"> -Service, diagnose, repair, and rebuild trucks, tractors, logging, and construction equipment -Work on both gasoline and diesel powered engines -Use arc welding, oxy/acetylene cutting, and fabrication techniques -Prepare for a career as an Equipment Mechanic, Truck Mechanic, Equipment Manager or Parts Clerk -Students should have good mechanical problem solving and measurement skills and be willing to work outside in inclement weather and in a sometimes dirty environment
<p>METAL WORKING OCCUPATIONS</p> <p>PROGRAM LENGTH 3 years</p> <p>CERTIFICATION NIMS Certification</p>	<ul style="list-style-type: none"> -Create parts from pieces of stock metal -Use mills, CNC mills, lathes, and presses -Learn to use precision measurement tools -Read blueprints or design parts and machine them to precise specifications -Prepare for a career as a Machinist Apprentice -Students should have good problem solving and good measurement skills 	<p>WELDING TECHNOLOGY</p> <p>PROGRAM LENGTH 3 years</p>	<ul style="list-style-type: none"> -Use MIG, TIG, stick, and oxyfuel welding -Perform oxyfuel and plasma cutting and air arc gouging -Learn to choose the best welding and cutting process for the job at hand -Prepare for a career as a Construction or Fabrication Welder -Students should have good measurement skills and be willing to work outside and to get dirty
<p>NETWORK-IT ESSENTIALS</p> <p>PROGRAM LENGTH 1 year (1st year in 3 year Networking Curriculum)</p> <p>CERTIFICATION -A+, N+</p>	<ul style="list-style-type: none"> -Learn how a computer operates -Troubleshoot and repair hardware/software problems -Gain experience with security, networking, and mobile devices -Prepare for a career as an Enterprise Technician, IT Administrator, Field Service Technician, or PC Technician -Students should have a high interest in understanding the functions of the computer, good math, and reading skills and excellent problem solving skills 	<p>NETWORK SYSTEMS TECHNOLOGY</p> <p>PROGRAM LENGTH 2 Years (recommended years 2 and 3 of Networking Curriculum)</p> <p>CERTIFICATION CCNA</p>	<ul style="list-style-type: none"> -Design, build, configure, and troubleshoot networks -Program routers and switches -Explore wireless and security methods -Learn with interactive and hands-on activities through the Cisco Academy -Prepare for a career as a Network Administrator, Technology Coordinator, Computer Support Specialist or Cable Installer -Students should be enthusiastic about computers and technology, be able to communicate well with others, and have above average math, reading, and science abilities and excellent problem solving skills

COURSE LISTINGS WITH COURSE NUMBERS

ART (Electives)							
Course #	Course Name	Pre-Requisite	Grade Levels				Credits
080	Art I		9	10	11	12	1
081	Art II	Art I		10	11	12	1
082	Art III	Art II			11	12	1
083	Art IV	Art III				12	1

BUSINESS (Electives)							
Course #	Course Name	Pre-Requisite	Grade Levels				Credits
241	Accounting I			10	11	12	1
242	Accounting II	Accounting I			11	12	1
270	Adv. Comp App./ Web Page Design			10	11	12	1
268	Intro to Spreadsheets			10	11	12	.5
271	Intro to Database			10	11	12	.5
274	Computer Application	REQUIRED	9				1

Collaborative Studies							
Course #	Course Name	Pre-Requisite	Grade Levels				Credits
554	English 9		9				1
556	English 10			10			1
558	English 11				11		1
559	English 12					12	1
560	Reading B1		9	10	11	12	1
562	Reading B2		9	10	11	12	1
561	Reading C1		9	10	11	12	1
585	Math 9		9				1
586	Math 10			10			1
587	Math 11				11		1
589	Math 12					12	1
350	Adaptive PE		9	10	11	12	.5

DRIVERS EDUCATION							
Course #	Course Name	Pre-Requisite	Grade Levels				Credits
091	Drivers Education	REQUIRED		10			.4
****	Behind the Wheel	Drivers Education		10	11	12	0
		(this course scheduled with teacher, non-credit bearing course)					

ENGLISH (2 electives)							
Course #	Course Name	Pre-Requisite	Grade Levels				Credits
131	Adv. English 9	Adv English 8 or Recommendation	9				1
132	English 9		9				1
141	Adv. English 10	Adv. English 9 or Recommendation		10			1
142	English 10			10			1
151	Adv. English 11	Adv. English 10 or Recommendation			11		1
152	English 11				11		1
161	Adv. English 12	Adv. English 11 or Recommendation				12	1
162	English 12					12	1
160	AP English					12	1
188	Creative Writing	(Elective)		10	11	12	.5
182	Public Speaking	(Elective)		10	11	12	.5

FAMILY AND CONSUMER SCIENCE (Electives)							
Course #	Course Name	Pre-Requisite	Grade Levels				Credits
501	Exploring Foods I					12	.5

HEALTH EDUCATION AND PHYSICAL EDUCATION (1 elective)							
Course #	Course Name	Pre-Requisite	Grade Levels				Credits
354	Health 9		9				.6
361	Health 11				11		.4
340	PE 9		9				.4
341	PE 10			10			.4
345	PE 11				11		.4
346	PE 12					12	.5
365	Care & Prevention of Athletic Injuries	Elective				12	.5

LANGUAGES (Electives)							
Course #	Course Name	Pre-Requisite	Grade Levels				Credits
191	Spanish I		9	10	11	12	1
192	Spanish II	Spanish I		10	11	12	1
193	Spanish III	Spanish II			11	12	1
194	Spanish IV	Spanish III				12	1
107	German I		9	10	11	12	1
108	German II	German I		10	11	12	1
109	German III	German II			11	12	1

MATHEMATICS							
Course #	Course Name	Pre-Requisite	Grade Levels				Credits
731	Algebra I	Math 8	9				1
732	Adv. Algebra II 9A	Algebra I - 8	9				1
731A	Algebra IA	Recommendation	9				
731B	Algebra IB	Recommendation		10			
733	Algebra II	Algebra I		10			1
736	Adv. Geometry	Adv. Algebra II		10			
737	Geometry				11		1
745	Trig and Adv Algebra				11	12	1
746	Trig and Pre-Calculus				11	12	1
747	Calculus					12	1
775	AP Calculus AB	Trig and Pre-Calculus				12	1

MUSIC (Electives)							
Course #	Course Name	Pre-Requisite	Grade Levels				Credits
830	Junior Band		9				1
835	Senior Band			10	11	12	1
841	Junior Choir		9				1
845	Concert Choir			10	11	12	1
*831	Junior Band with Choir	*Select 831 and 842 if in both Junior Band and Choir.	9				.5
*842	Junior Choir with Band		9				.5
**849	Senior Band with Concert Choir	**Select 849 and 846 if in both Senior Band and Choir.		10	11	12	.5
**846	Concert Choir with Band			10	11	12	.5
848 *(839 & 849)	Show Choir *(select 839 & 849 if in both Show Choir and Senior Band)	Audition		10	11	12	1

SCIENCE (2 electives)							
Course #	Course Name	Pre-Requisite	Grade Levels				Credits
940	Advanced Biology 9		9				1
941	Biology			10			1
941A	Biology A	recommendation	9				1
941b	Biology B	recommendation		10			1
971	Chemistry			10	11	12	1.2
973	Concepts of Chemistry	Chemistry				12	1
950	Physics				11	12	1.2
951	AP Physics 1					12	1
952	Applied Physics I				11	12	1
953	Applied Physics II					12	1

SOCIAL STUDIES							
Course #	Course Name	Pre-Requisite	Grade Levels				Credits
431	Adv American History 9		9				1
432	American History 9		9				1
441	Adv World History 10			10			1
442	World History 10			10			1
451	Adv US/World History 11				11		1
452	US/World History 11				11		1
461	Adv Economics and American Government					12	1
462	Economics and American Government					12	1

TEST PREPARATION (elective)							
Course #	Course Name	Pre-Requisite	Grade Levels				Credits
984	College Entrance Exam Test Prep			10	11		.5

TECHNICAL EDUCATION (Electives)							
Course #	Course Name	Pre-Requisite	Grade Levels				Credits
640	Manufacturing Enterprise		9	10	11	12	1
(2016-2017) 641	Construction Technology	Manufacturing Enterprise		10	11	12	1
(2017-2018) 642	Principles of Engineering and Design	Manufacturing Enterprise		10	11	12	1
681	Adv. CAD Systems	Tech Draw with AutoCAD		10	11	12	1
680	Architectural CAD	Tech Draw with AutoCAD		10	11	12	1
670	Applied Technology I		9	10	11	12	1

SENECA HIGHLANDS CAREER & TECHNICAL CENTER COURSES (ELECTIVES)							
Course #	Course Name	Course Length	Grade Levels			Credits	
6	Automotive Mechanics	3 years		10	11	12	3
8	Building Construction	3 years		10	11	12	3
4	Cosmetology	3 years		10	11	12	3
3	Culinary Arts	3 years		10	11	12	3
5	Health Assistant	2 years			11	12	3
2	Heavy Equipment Maintenance	3 years		10	11	12	3
9	Metal Working Occupations	3 years		10	11	12	3
15	Welding	3 years					
7	Network-IT Essentials	1 year		10	11	12	3
011	Network Systems Technology	2 years			11	12	3

POLICY STATEMENT

All activities and courses, including technology education, vocational-technical education, and physical education courses at Smethport Area School District are available to all students as required by Title VI, Title IX and Section 504. If there are prerequisites, they are based on your ability and aptitude, not on your race, color, national origin, sex or any handicapping conditions. If you are physically or mentally handicapped, you may qualify for special services and instruction, and equipment modifications so you can successfully complete the course or participate in any activity.

If you have questions about equal educational opportunities, contact Title IX Officer, Mr. David London, at the Administrative Offices, 414 S. Mechanic Street, Smethport, PA 16749 (814-887-5543).

My Thoughts....

My Four Year Plan

Course Selections – Schedule 7 credits each year				
Subject	9th Grade	10th Grade	11th Grade	12th Grade
English				
Mathematics				
Science				
Social Studies				
Technology				
Foreign Language				
Physical Education and Health				
Drivers Education				
Electives				
Total Credits:				