

Senior High Program of Study

2017-2018

This booklet is designed to serve as a curriculum guide for the students of Susquehanna Community Senior High School and to assist them in choosing programs of studies that will best meet their needs. The curriculum at Susquehanna is divided into three basic programs of study: Academic and Vocational/Technical.

The Susquehanna County Career & Technology Center provides students in the 12th grade who are not considering 4 year college programs upon graduation and who desire specific training to prepare them for immediate entry to the work force in Accounting Technology/Technician and Bookkeeping, Administrative Assistant/Secretary Science, Autobody/Collision and Repair Technology/Technician, Automotive Technology, Building and Property Maintenance (Electrical, Plumbing, Heating), Carpentry/Cabinetmaking, Cooperative Education/Diversified Occupations, Cosmetology, Food Management/Production/Services, Health Care Technology/Criminal Justice and Police Science, Vehicle Maintenance/Repair Technology, Welding Technology/Welder, may consider this program. Because of the commitment and limited number of available slots students must meet selection criteria, have parental support and a sincere desire to attend and complete such a program. Students will spend their full day at Elk Lake.

PLANNING A PROGRAM OF STUDIES:

The program of studies which students plan for themselves will help them to enjoy successful and profitable high school careers. The program will also determine how well prepared these students will be for entering college or for obtaining and holding jobs. Well-planned programs of studies will contribute to the day-by-day personal growth and happiness of the students.

IN DEVELOPING A PROGRAM OF STUDIES A STUDENT SHOULD:

Establish personal goals. Students should have some specific educational, occupational, and personal goals toward which they are working. They should be allowed to revise these goals if necessary. The important point is that they have some goals.

Evaluate personal qualifications. Students should consider honestly what their real interests are, where their own strengths and weaknesses lie, and what their needs will be in achieving their personal goals.

Determine learning requirements for college entrance. Students should investigate just what the colleges of their choice expect of applicants since colleges vary in their requirements for College Board scores, rank in class, and in subjects taken in high school. Knowing what their colleges require, students can then plan their programs of study accordingly. Students who do not plan to attend college should find out all the information they can about the kind of work they plan to do after graduation from high school. Many colleges require a minimum of a two-year sequence in a modern foreign language.

Visit colleges, technical schools, or places of employment. Students will learn through visitations whether they really like the colleges, school, or places of employment in which they have shown an interest.

Consult parents, teachers, and guidance counselors. Student should confer with parents, teachers, and guidance counselors to obtain the benefit of their experiences and to become aware of available information.

Select Subjects in the program of studies. Students should take into consideration their goals, interests and needs, and their college or vocational school requirements, and the advice of parents, teachers and counselor; then they should include in their programs of studies the subjects that will contribute most toward helping them achieve their established goals.

Utilize CHOICES. A computerized source of information about 4 year and 2 year colleges as well as lists sources of financial aid, scholarship information and occupation information, available in computer lab and library.

STUDENTS ARE REMINDED OF THE FOLLOWING:

- Certain basic subjects are required of all students are Susquehanna. Elective Subjects should be selected on the basis of the student's individual aptitude, interest, and skills.
- Students should discuss their choice of electives with their parents and guidance counselor.
- Students should select carefully from the course offering for each grade.
- Students and one of their parents must sign the Program of Study sheet. Once the sheet is signed, no course changes will be allowed without permission from the high school guidance office.
- Students who need help in selecting subjects for a program of study, or who desire further information concerning the courses and subjects offered at Susquehanna may come to the guidance office for an appointment.

GRADUATION REQUIREMENTS:

Certification for graduation will be determined by credits earned during grades 9, 10, 11, and 12. **All students will be scheduled for at least 5 credits plus Physical Education.** The 5 credits for Seniors includes Speech. Students must pass a minimum of 4 credits per year in grades 7-12. Additionally all students must complete a project and accumulate twenty-five (25) units of credit which shall be required for graduation and shall be distributed as follows:

I. Four units (years) of English

II. Four units of Social Studies –Vocational Ed. Students three credits

III. Four units of Science–Vocational Ed. Students three credits

IV. Four Mathematics courses–Vocational Ed. Students three credits

V. Two units Arts and Humanities

VI. One unit Health and Physical Education

- a. One Semester of Health Education in grade eleven will be counted as ½ unit**
- b. Two periods of Physical Education per cycle in grades 9, 10, 11, and 12 will be counted as 1/3 unit each.**

VII. One unit of Technology – (Computer Science or a PLTW Course)

VIII. Electives:

- a. Each student will schedule at least seven electives courses unless Algebra I is taken in grade 9-12 then only 6 electives will be needed. An elective will be any subject beyond the basic requirements listed above.**

Ninth Grade

- English 9*, Read 180
- American History Survey 9*
- Course 2 , Course 3, Keystone Algebra I *, Algebra A/ Math 180
- Earth/Physical Science *
- Computer Principles or PLTW-IED
 - Physical Education
 - Microsoft Applications 9
 - Today's Tech 9
 - Intro to Family and Consumer Science 9
 - Personal Economics 9
- Elective

Electives:

- PLTW - Introduction to Engineering Design
- Computer Principles
- Spanish I * or French I *
- Chorus
- Concert Band
- Online Foreign Languages through Blended School Language Institute
 - Mandarin Chinese
 - Japanese
 - Russian
 - Arabic

*NCAA Core Course

Tenth Grade

- Keystone Literature 10, Read 180
- World History and Geography 10*
- Keystone Algebra I, Algebra II, Algebra A/Math 180
- Keystone Biology
- Physical Education
- Math Lab
- Driver Education (online delivery through vdriveusa.com)
 - Health 10
 - Intro to Fine Arts
 - Intro to Music/Dance
 - Intro to Business 10
- Elective

Electives:

- PLTW -Introduction to Engineering Design
 - PLTW -Principles of Engineering
 - Spanish I / II or French I / II *
 - Foods and Nutrition
 - Food and Fiber
 - Child Development
 - Studio Art A, B, C
 - Intro to the Fine Arts: Art and Dance
 - Production Systems (Wood + Metal)
 - Intro to Business (Careers)
 - Computer Principles
 - Computer Science I
 - Concert Band
 - Chorus
 - Theory: Performance of Popular Music
 - Online Foreign Languages through the Blended School Language Institute:
 - Mandarin Chinese
 - Japanese
 - Russian
 - Arabic
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- *NCAA Core Course

Eleventh Grade

- English 11- Dual or English 11*, Read 180
- Economics *
- General Chemistry, Chemistry*, Dual Chemistry*
- Keystone Algebra I, Algebra II, Geometry, Algebra A/Math 180
- Physical Education
 - SAT/Keystone Verbal
 - SAT/Keystone Math
 - Health 11
- Elective

Electives: **

- PLTW -Introduction to Engineering Design
 - PLTW -Principles of Engineering
 - PLTW-Civil Engineering and Architecture
 - Psychology – Dual*
 - Production Systems
 - Energy, Power and Construction
 - Foods and Nutrition
 - Food and Fiber
 - Child Development
 - Studio Art A, B, C
 - Intro to the Fine Arts: Art and Dance
 - Concert Band
 - Chorus
 - Theory: Performance of Popular Music
 - Computer Principles
 - Computer Science I
 - Spanish III
 - Online Foreign Language through Blended Schools Language Institute
 - Mandarin Chinese
 - Japanese
 - Russian
 - Arabic
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- *NCAA Core Courses

Twelfth Grade

- English 12/Speech – Dual or English 12/Speech*, Read 180
- Government*/Dual Enrollment Government
- Pre-Calculus, Calculus, Algebra II, Geometry, Math Fundamentals, Probability & Statistics/Dual Enrollment Probability & Statistics, Algebra A/B/Math 180
- Physics*/Dual Enrollment Physics, Advanced Biology*/Dual Enrollment/Advanced Biology, Applied Science
- Physical Education
- Elective
- Elective

Career & Technical Education at SCCTC:

- English 12 and
 - Accounting Technology/Technician and Bookkeeping
 - Administrative Assistant/Secretarial Science
 - Autobody/Collision and Repair Technology/Technician
 - Automotive Technology
 - Building and Property Maintenance (Electrical, Plumbing & Heating)
 - Carpentry and Cabinetmaking
 - Cooperative Education/Diversified Occupations
 - Cosmetology
 - Food Management/Production/Services
 - Health Care Technology
 - Criminal Justice and Police Science
 - Vehicle Maintenance and Repair Technology
 - Welding Technology/Welder

Electives:

- PLTW -Introduction to Engineering Design
- PLTW -Principles of Engineering
- PLTW-Civil Engineering and Architecture
- Spanish I/II/III/IV*
- French I/II*
- Psychology* - Dual
- Child Development
- Food and Nutrition
- Food and Fiber
- Production Systems
- Studio Art A, B, C
- Intro to the Fine Arts: Art and Dance
- Concert Band
- Chorus
- Theory: Performance of Popular Music
- Computer Principles
- Computer Science I
- Online Language through Blended Schools Language Institute
 - Mandarin Chinese
 - Japanese
 - Russian
 - Arabic
- NCAA core courses

Department Course Offerings

Click on the department links to find descriptions of all the senior high courses within that department.

- [Art Department](#)
- [Computer Department](#)
- [English Department](#)
- [Family & Consumer Science](#)
- [Foreign Language](#)
- [Health/Phys Ed/Drivers' Ed](#)
- [Learning Support](#)
- [Math Department](#)
- [Music Department](#)
- [Science Department](#)
- [Social Studies Department](#)
- [Technology Education Department](#)
- [Career & Technical Education at SCCTC](#)

Art Department

Studio Art A, B, C:

This will be a three-year rotating-curriculum course (no prerequisite/recommended order). Students will be introduced to a variety of 2-dimensional and 3-dimensional media and fields of art including drawing, painting, clay-working, sculpture, mixed-media, and design. Projects will serve to introduce students to the Elements and Principles of art & design as well as explore historical and current artists and their work. Observational drawing, composition, color theory, perspective, creative concepts, analysis and critique, and media techniques will be stressed. Upon completion of three years of Studio Art, students will have a strong portfolio that meets college requirements. Students will be required to keep a sketchbook.

INTRO to the Fine Arts: ART and DANCE:

(10th grade requirement/split with Intro to Fine Arts: Music and Dance.)

The objectives of this 45 day art history course include knowledge and use of the elements and principles necessary to produce, review, critique, and revise original and respected works in the arts. Students will explore dance from many areas of the world and its social, cultural, and historical influences.

Computer Department

The following courses cover the Pennsylvania academic standards of Science and Technology.

Microsoft Applications	9 th
Intro to Business (Careers)	10 th
Computer Principles	9-12
Computer Science I	10-12

Microsoft Applications:

This 30-day course covers the Pennsylvania Academic standards for Business, Computer, and Information Technology as well as the Science and Technology standards. Students will be introduced to the basics of word processing, spreadsheets, presentation development, and desktop publishing. This class provides hands-on operation using the Microsoft Office suite of applications including: Word, Excel, PowerPoint, and Publisher.

Intro to Business (Careers):

This 45-day course covers the Pennsylvania Academic standards for Business, Computer, and Information Technology and Career Education and Work. This course will allow students to research various careers and map out possible career paths. Students will participate in several projects such as a research paper, resume, cover letter, and a project involving emerging technology-based careers. Students will have access to professionals via career day and guest speakers. Business concepts such as cost of living, budgeting, impact of emerging technologies, and business plans will be explored throughout the course. As a culminating activity students will participate in a mock interview.

Computer Principles:

This 180-day course covers the Pennsylvania Academic standards for Science and Technology. Students will be exposed to Science, Technology, Engineering, and Math (STEM) concepts. Students will explore various aspects of innovations and digital technology while developing computational thinking skills. This course will allow students to participate in project-based learning through application and inquiry tasks. Students will also be introduced to the world of coding. This course is offered to students in grades 9 through 12 who have completed or are concurrently taking Algebra I.

Computer Science I:

This 180-day course covers the Pennsylvania Academic standards for Science and Technology. Students will be exposed to Science, Technology, Engineering, and Math (STEM) concepts. Students will explore how complex coding is integrated into all aspects of technology to make it work. This course will teach students about programming and how to create their own programs using the Python coding language. Students will demonstrate mastery through a series of coding exercises, quizzes, and programs. This course is offered to students in grades 10 through 12 who have completed Algebra I.

English Department

All English Courses cover the Pennsylvania academic standards for Reading, Writing, Speaking, and Listening.

English 9th grade course
English 10th grade course I, II, III
English 11th grade course
English 12th grade course I, II, III
Speech/Writing 12th grade
PSSA Reading or SAT Verbal Prep 11th grade
Read 180

READ 180

Read 180 (Stage B or Stage C):

Read 180 is an innovative reading intervention program by Houghton Mifflin Harcourt. READ 180 is a research-based program with proven results in raising student reading achievement. READ 180 uses cutting-edge technology to deliver individualized reading instruction, provide valuable skills practice, and motivate students to become confident readers. In our READ 180 class, students and teachers work together to:

- Build essential literacy skills for college and career readiness.
- Bring reading proficiency up to grade level.
- Develop multi-paragraph writing skills.
- Apply reading and writing strategies to other subjects such as social studies, science, and math.
- Show students that they can attain reading success.

This class meets for two periods each day.

9th grade English:

This course is designed to help students transition smoothly from junior high level work to senior high level work by building on the skills that students have already acquired. The curriculum for this course centers on the study of vocabulary, grammar, literature, and writing. First, the vocabulary studied will primarily come from the literature read and the literary terms studied. Second, grammar lessons will emphasize on correcting student weaknesses with the goal of improving their writing skills. Third, students will read and analyze a variety of literature covering the genres of short story, drama, poetry, and novel. The major works of literature students will read are, but not limited to: *Fahrenheit 451*, *Lord of the Flies*, *Animal Farm*, and *Romeo and Juliet*. Lastly, this course will have an added emphasis on writing. The writing process along with the writing structure will be modeled and taught. Students will be expected to write at least one paper in each of the following modes of writing: narrative, expository, and persuasive. Furthermore, students will learn how to respond to an open-ended question, similar to what they may see on a state exam. Whether through the essay writings or other assignments, students will acquire research skills and learn how to properly document their research using proper methods of MLA documentation. In addition, students will be expected to write and deliver one speech during their freshman English class.

10th grade English:

English 10 is designed to meet the needs of both the college-bound students and those planning to enter the workforce after graduation. Grammar will be covered with instruction tailored to meet the students' areas of weakness. Composition is also stressed. Students will be required to write in the various forms: narration, persuasion, and exposition. Furthermore, each student will be responsible for at least one oral presentation. Units of study are built upon short stories, sonnets, drama, and novel instructional units. Some examples of these are, but not limited to: "**Dr. Heidegger's Experiment**", "**Paul's Case**", **Shakespearean/English & Petrarchan/Italian sonnets**, *The Tragedy of Julius Caesar*, *Of Mice and Men*, *A Separate Peace*, and *To Kill a Mockingbird*. /PSSA preparation is stressed through bi-weekly lessons and quizzes. Research is also taught, along with proper and complete methods of MLA documentation.

SAT (11th grade) or PSSA Verbal Prep: (10th & 11th grade):

These classes will meet for 45 days. A determination will be made as to placement for 11th graders in either PSSA or SAT program based on previous PSSA results. All 10th graders will have one quarter of PSSA Prep. The course will provide students with strategies related to taking the SAT verbal test or the PSSA reading test. Critical reading, vocabulary, identifying sentence errors, and improving paragraphs, and essay writing will be stressed in the SAT course. The PSSA course will emphasize constructed-responses, identifying author's purpose, figurative language and other facets of language arts tested on the PSSA.

11th grade English:

English 11-I/ENG 105: English Composition (Dual Enrollment)

Course Description (from the Lackawanna College Catalogue)

English 105 strives to familiarize students with the writing process, empowering them to effectively produce polished, coherent academic essays, which employ critical, analytical, and research skills. This course applies a holistic approach to academic writing while helping students to develop clear, thoughtful essays in standard academic forms. Specifically, students' writing experience will culminate in the production of a properly organized, fully documented research paper.

In addition to the Lackawanna College requirements, English 11-I is designed in accordance with the PA Dept. of Education Standards for Reading, Writing, Speaking, and Listening. Students will study American Literature from the Puritans through the post-moderns, write narrative, informative, and persuasive essays, and participate in Socratic Seminars. Particular emphasis will be placed upon the study of grammar and composition.

English 11-II:

The English 11-II curriculum is designed to meet the needs of students who are considering college or technical school after graduation. This course is a survey of the major American literary periods and the most influential writers of each. The course begins with a study of Puritan literature and Enlightenment literature before moving onto the literary movements of Romanticism, Transcendentalism, Realism, and Modernism. The literature read will cover the genres of poetry, short story, drama, nonfiction, and novel. Furthermore, students will read excerpts of Western World literature and analyze their connection to American texts. Students will read, analyze, and discuss these literary works with the goals of improving student reading comprehension and critical thinking skills. Some examples of the works covered comprehensively are, but not limited to: *The Crucible*, *Uncle Tom's Cabin*, *The Adventures of Huckleberry Finn*, *The Narrative of the Life of Frederick Douglass*, *Death of a Salesman*, and *The Great Gatsby*. In addition, great emphasis is placed on developing and refining students' writing skills. Students will write at least one essay in the following modes: expository, narrative, and persuasive. Students are also required to give one oral presentation and participate in graded class discussions. Equally important, students will spend time in-class acquiring research skills as they complete various research tasks. Students will also become familiar with and write according to MLA documentation and format guidelines. Finally, students will improve their vocabulary through literature-based lessons.

12th grade English/Speech: (Dual Enrollment option)

This course is designed to be a stepping stone from high school course work to college/adult life by asking students to attack text and presentations more formally than ever before. The overall goal of this course is to allow students to not only be able to read, interpret, analyze, and respond to text, but to appreciate how text can influence society. In order to meet this goal, students will be reading several classic novels and their modern counterparts. They will have various activities, both written and verbal, throughout the reading of the text. In addition, students will critique news stories, both verbal and written, for possible bias. They will use their knowledge to create a daily news broadcast and school newspaper.

Finally, students will be learning about methodologies, strategies, and deliveries used to become confident and comfortable as public speakers. The students will complete a variety of formal and informal speaking situations based on real- life topics such as giving a toast, stating their opinion on a topic, and going to an interview.

This course is available for dual enrollment credit, in affiliation with Lackawanna College.

Family Consumer Science

The following courses cover the Pennsylvania academic standards for Family and Consumer Science.

Food and Nutrition- Grades 9, 10, 11, 12

Food and Fiber - Grades 9,10,11,12

Child Development - Grades 9, 10, 11, 12

Intro to Family and Consumer Science (required) - Grade 9

Intro to Family and Consumer Science (required) - Grade 8

Foods and Nutrition:

In Nutrition: safeguarding the family health, the efficient kitchen, choosing-using-and-care of appliances are the units covered. In the Food Preparation area, the units covered will be dairy products, breads and cereals, cakes, pies, fruit, vegetables, salads, soups, meat and poultry; selection, serving and storage is explored. Also, exploring the Food Guide Plate and how to eat healthy will be covered.

Food and Fiber:

Student's interested in improving their cooking skills and abilities in a more involved way will explore food preservation, add finishing touches to food, entertaining, cooking customs from many countries and regions in the United States as well as preparing foods characteristic of these regions are emphasized. Students will also be responsible for planning and hosting a party with a group of others. Students will construct a sewing project to utilize sewing skills. The student will choose what they want to sew and parents may view it if they so choose. The student will be required to pay for the project.

Child Development:

This course explores the background and reasons for early childhood education programs; provides an opportunity for students to be introduced to child development and types of programs that exist; growth and development of child from pregnancy to age five; family planning, birth process, parenting and care giving is discussed; discipline vs. punishment, development and purpose of play, development of curricula areas are also studied; guidance techniques are taught. Experience with simulation; Baby...Think It Over; also mini craft units will be incorporated into the curriculum.

9th Grade Intro Family and Consumer Sciences:

This course is designed to introduce all 9th grade students to Family and Consumer sciences. The focus of Pennsylvania Academic Standards for Family and Consumer Sciences education is the individual, family, and community. Family experiences, to a great extent, determine who a person is and what a person becomes. Family and Consumer Sciences support the development of the knowledge and skills that students need as family members both now and in the future. Financial and Resource Management; Balancing Family, Work, and Community Responsibility; Food Science and Nutrition; Child Development; Students will experience the Baby...think it over program.

Foreign Language Department

French I and/or Spanish I	Grade 9
French II and/or Spanish II	Grades 10-12
Spanish III	Grades 11-12
Spanish IV	Grade 12

French I or Spanish I:

Students learn the fundamentals of conversation, structure, and vocabulary during the first year. In addition, the culture of the people where the languages are spoken is discussed. At the end of the first year, students should have the very basics of the language mastered. Prerequisite: Minimum overall average 75% in 7th and 8th grade English.

French II or Spanish II:

Further development of vocabulary and structure occurs in the second year. Students are expected to gradually develop their proficiency in conversation through oral practice of the vocabulary and structures presented. Cultural aspects of the people who speak the languages continue to be studied. It is recommended that a student have a 85 average in the first year to advance to the second.

Spanish III/IV:

This is a combined course. Students continue to develop their proficiency through the active use of the vocabulary and structures they learned in the first two years. There is a further emphasis on vocabulary. Most of the grammar learned in the first two years is reviewed in the third year, and virtually all grammar in the fourth year is a review. The course differs in vocabulary and in the civilization, cultural, and historical aspects which are covered. It is recommended that a student have a 85 to advance to the third or fourth year.

Blended Schools Language Institute: This will be an asynchronous course with a specific scheduled time to be determined.

Mandarin Chinese, Japanese, Russian and Arabic

HEALTH/PHYSICAL/DRIVER EDUCATION

The following courses cover the Pennsylvania academic standards for Health, Safety, and Physical Education.

10th Grade Health:

This course is a quarter course and its main objective is to elaborate in great detail about the drug and alcohol epidemic that is sweeping through today's youth. We discuss various drugs and the short and long term effects that occur within the body. We discuss the short and long term ramifications that come along with drug use and all who may be impacted beyond the user. This is accomplished through classroom discussions, videos, work sheets, and guest speakers.

11th Grade Health:

This course is now a semester course in which students meet every day. The purpose of this course is to provide students with an understanding of the functions of the human body and mind, and implant in them a desire to obtain the highest degree of physical and mental fitness which includes proper nutrition and exercise and the prevention for drug, alcohol and tobacco use. The course will also teach students to handle emergency situations for respiratory failure and cardiac arrest in victims of all ages as well as standard first aid procedures. Certification by the EMS Safety Services is available in both areas. Information on sexually transmitted diseases, relationships, nutrition, and suicide prevention are also covered in great detail. This is accomplished through classroom discussions, videos, work sheets and guest speakers.

Physical Education:

This course covers the Pennsylvania academics standards of Health, Safety, and Physical Education. Physical Education is that phase of education which endeavors to promote physical fitness through instructional and participation in activities which develop strength, speed, agility, endurance, fundamental motor skills and individual and social conduct and attitudes favorable to maintenance of physical fitness by participation. All Physical Education students who have a medical excuse must do one of two things to receive a grade in Physical Education class. (1) Students will dress for class, do what exercises possible and help in the class by keeping score or referring. (2) Go to the library or study hall with a term paper assignment which must be handed in at the end of Medical excuse or quarter to receive a grade. Classes missed for absence or disciplinary reasons must be made up as so as possible. P.E. grading system is based on being prepared for class with proper P. E. uniform along with cooperating with classmates/ teachers according to school policy. Students must fully engage in each class objective to receive full credit per class. Points will be deducted/added based on objective participation. Sleeved T-shirt, athletic gym shorts, and proper gym sneakers. It also includes full participation by the students in the class. If the student does not have the proper uniform and/or footwear for P.E., it is considered an unexcused class. The student will have 10 points deducted from his or her grade per unprepared class.

Driver Education:

The course is offered online through vdriveusa.com, a Pennsylvania Department of Education approved provider. You will be scheduled computer lab time 2 out of every 6 days to complete the course. A final exam score of 75 must be achieved to attain a certificate of completion. Each student will get a final grade on their report card at the end of the school year.

Learning Support Department

STUDY SKILLS:

The Itinerant Learning Support teacher is available for those students who have been identified as needing special education services. The duties of the Itinerant Learning Support Teacher include helping students prepare for tests and quizzes, receive specially-designed instruction for testing services, teaching organizational skills, prioritizing and completing homework assignments, and monitoring the student's progress in the general education curriculum.

Reading:

The course covers the Pennsylvania academic standards for Reading, Speaking, and Listening. This course utilizes the SRA Direct Instruction Reading Program, the Reading Mastery Plus Program, and The Strategies to Achieve Reading Success Program. They emphasize development in recognizing sight words, reading decoding/comprehension, vocabulary, and study skills. Improving reading levels is the primary goal of these programs.

Read System 44:

Read System 44 is a foundational reading program designed for the most challenged struggling readers in Grades 3-12. Intentionally metacognitive, System 44 helps students understand that the English language is a finite system of 44 sounds and 26 letters that can be mastered.

English, Science, and Social Studies:

The course covers the Pennsylvania academics standards for each content area. Learning Support students participate in these regular education classes. Depending on individual needs, the student could be placed in a class that utilizes the co-teaching model which allows the regular education teacher and special education teacher to work together to provide an optimal learning environment. Curricular adaptations and modifications are in accordance with each student's Individualized Educational Plan.

Math 180 (9th – 10th – 11th):

The course covers the Pennsylvania academics standards for Math. The programs are designed to give students basic skills as they continue to work toward grade level.

MATH 180 is an innovative math intervention program by Houghton Mifflin Harcourt. MATH 180 is a research-based program with proven results in raising student math achievement. MATH 180 uses cutting-edge technology to deliver individualized math instruction, provide valuable skills practice, and motivate students to develop confidence and fluency in math. In our MATH 180 class, students and teachers work together to:

- Build essential math skills for college and career readiness.
- Bring math proficiency up to grade level.
- Develop mathematical practices and habits of mind.
- Apply math skills to solve real-world problems.
- Show students they can attain academic success in math.

Community Based Vocational Training:

11th & 12th grades: Students participate in on-the-job training in the community in preparation for the transition from high school to adult life. Credits are earned toward graduation requirements.

Career & Technical Education at SCCTC:

10th, 11th, and 12th grade:

Each student's IEP will outline district requirements and level of classes offered at the senior high level.*

Mathematics Department

Carnegie Math is an integrated series which includes Course 1, 2, 3; Algebra A/ B/ Math 180, Common Core Algebra I, Algebra II and Geometry. The courses are hybrid combination of classwork, with a focus on cooperative learning and problem solving skills, and computer time to develop fundamental skills through individual practice. The classes will be divided roughly 60-40 for class/computer time.

Course 2 – 7th grade

Course 3 – 7th, 8th grades

Keystone Algebra I – 9th, 10th, 11th grades

Algebra II – 10th, 11th, 12th grades

Geometry – 11th, 12th grades

Mathematics Fundamentals – 10th, 11th, 12th grades

Pre-Calculus – 12th grade

Calculus – 12th grade

SAT Prep – 11th grade

Probability & Statistics/Dual Enrollment

Algebra A/Algebra B/Math 180

Keystone Algebra I:

Carnegie Learning Algebra I is designed as a first-year Algebra course for core instruction. It can be implemented with students at a variety of ability and grade levels. The U.S. Department of Education's What Works Clearinghouse identifies Carnegie Learning Algebra I as one of very few curricula with studies that show **substantial, positive effects on learning and student attitudes** in a strong experimental design. Content covered includes: Patterns and Multiple Representations, Proportional Reasoning, Percents, and Direct Variation, Solving Linear Equations, Linear Functions and Inequalities, Writing and Graphing Linear Equations, Lines of Best Fit, Systems of Equations and Inequalities, Quadratic Functions, Properties of Exponents, Polynomial Functions Rational Expressions, Probability, Statistical Analysis, Quadratic and Exponential Functions and Logic.

Geometry:

Carnegie Learning Geometry incorporates the van Hiele model of Geometric thought; a theory that describes how students learn geometry. Our curriculum will enable students to develop a deep understanding of Geometry. The course assumes number fluency and basic algebra skills such as equation solving. Carnegie Learning Geometry is aligned to NCTM and Achieve standards. It is designed to be taken after an algebra course and can be implemented with students at a variety of ability and grade levels. Content covered includes: Tools of Geometry, Introduction of Proof, Perimeter and Area of Coordinate Plane, Three-dimensional Figures, Properties of Triangles, Similarity Through Transformation, Congruence Through Transformation, Using Congruence Theorems, Trigonometry, Properties of Quadrilaterals, Circles, Arcs and Sectors of Circles, Circles and Parabolas, Probability, More Probability and Counting.

Algebra II:

Carnegie Learning Algebra II promotes the understanding of both linear and non-linear functional forms, as well as the relationship between text, equations, graphs and tables through the mathematical modeling of realistic situations. Our program motivates students to talk about mathematical functions, tackle real-world problems, strengthen their conceptual foundations and understand Algebra's relevance in everyday life. Content includes: Searching for Patterns, Quadratic Functions, Graphs of Polynomial Functions, Polynomial Expressions and Equations, Polynomial Modeling, Sequences and Series, Graphs of Rational Functions, Rational Expressions and Equations, Radical Functions, Graphs of Exponential and Logarithmic Functions, Exponential and Logarithmic Expressions and Equations, Mathematical Modeling, Graphs of Trigonometric Functions, Trigonometric Expressions and Equations, Interpret Data in a Normal Probability Distribution, Make Inference and Justify Conclusions, Make Decisions Using Complex Probability Models.

Mathematics Fundamentals:

This course will cover all of the Pennsylvania academic standards for Mathematics. The students will learn introductory concepts of General Math, Algebra, Algebra II, Trigonometry, Calculus and Geometry. The course is offered to students to help guide them in the local and state assessment plan.

Pre-Calculus / Calculus

This course will be a two-credit double-period course. The first semester will cover pre-calculus concepts all college students need as prerequisites to calculus and related courses required in many undergraduate majors. Specific topics include algebraic expressions, polynomial and rational functions, exponential and logarithmic functions, and trigonometric functions. The second semester will cover Calculus I concepts such as differential calculus, functions and graphs, exponential, logarithmic, and trigonometric functions, limits, derivatives, and integration. *(We are seeking Dual Enrollment status through Lackawanna College – TBA)*

SAT Prep:

11th grade students: The class will be one 45 day segment of SAT or PSSA Math preparation. Placement in the appropriate section will be determined by previously optioned PSSA scores. This course will prepare students for the SAT test or PSSA test. All Pennsylvania academic standards will be addressed and remediate during in the PSSA math prep segment.

Probability & Statistics – Dual (12th grade):

This course, which has the **option for dual-enrollment**, introduces students to statistical methods and measurements developed in the context of applications. Topics include data analysis and graphing, Variation and Measures of Central Tendency, Correlation and Regression, Elementary Probability Theory. The Binomial Distribution, and Normal Curves. This course is available for dual enrollment credit, in affiliation with Lackawanna College.

Algebra A/ Algebra B/ MATH 180

Algebra A/ Algebra B/ MATH 180 is an innovative math intervention program by Houghton Mifflin Harcourt. MATH 180 is a research-based program with proven results in raising student math achievement. MATH 180 uses cutting-edge technology to deliver individualized math instruction, provide valuable skills practice, and motivate students to develop confidence and fluency in math. In our MATH 180 class, students and teachers work together to:

- Build essential math skills for college and career readiness.
- Bring math proficiency up to grade level.
- Develop mathematical practices and habits of mind.
- Apply math skills to solve real-world problems.
- Show students they can attain academic success in math.

Music Department

The following courses cover the Pennsylvania academic standards for the Arts and Humanities.

The music department offers to you many performing ensembles. The two basic ensembles are Concert Band and Chorus. From these basic ensembles come opportunities to participate in other select groups such as Select Chorus, Jazz Band, Brass Ensemble, Woodwind Ensemble, Pep Band and more.

Chorus 7th through 12th grades

Concert Band 7th through 12th grades

Fine Arts B (Intro to Music and Theater) 10th grade

Theory and Performance of Popular Music

Chorus

Chorus is year-long course of instruction in vocal techniques and performance. Students will demonstrate proficiency and be graded on the following criteria: sing alone and with others, sight-read repertoire, identify and apply musical terms of notation, expression and articulation, demonstrate understanding of correct posture, breath support, and embouchure, articulation, pitch and tone. Students will have opportunities to reinforce ensemble skills as well as broaden their knowledge of music through the study and performance of music from a variety of musical eras and cultures, traditional and contemporary. All students in this ensemble are required to participate in two or three performances each year, most notably the evening Holiday and Spring concerts. Occasional opportunities to perform at community events may occur. Several after school rehearsals may be required. Students should consider these responsibilities when scheduling this course. Chorus members may also be eligible to audition for Susquehanna County and Pennsylvania Music Educators Association events (Susquehanna County Chorus, PMEA District, Regional and State). Chorus meets every other day within the 6-day cycle.

Concert Band

Band is open to all current instrumental students or students new to their particular instrument. Students will have opportunities to reinforce ensemble skills as well as broaden their knowledge of music through the study and performance of music from a variety of musical eras and cultures, traditional and contemporary. All students in this ensemble are required to participate in two or three performances each year, most notably the evening Holiday and Spring concerts as well as the Memorial Day and graduation ceremonies. Occasional opportunities to perform at community events may occur. Several after school rehearsals may be required. Students should consider these responsibilities when scheduling this course. Band members may also be eligible to audition for Susquehanna County and Pennsylvania Music Educators Association events (Susquehanna County Band, PMEA Band Fest, Jazz Ensembles, District, Regional and State). Band meets every other day within the 6-day cycle.

Fine Arts B: Music and Theater:

The objectives of this 45 day course include knowledge and use of the elements and principles necessary to produce, review, critique, and revise original and respected works in the arts. Students will study the arts of music composition and performance, performance art, theater, and film. This project-based course inspires creativity and requires cooperation and problem-solving skills. Each unit of study culminates in performance-based projects, including a musical composition and its performance, the production of a student written and produced stage play, and a student written and produced film.

Theory and Performance of Popular Music:

Will focus on the analysis of various popular songs from a music theory perspective and the practice of performance. Students will work together to create instrumental and vocal arrangements of popular songs to be performed. There will also be a focus on songwriting and various recording techniques. This course is intended for students with at least a basic proficiency in singing and/or playing a musical instrument. An audition for each student who may be interested is required before they are placed in this class.

Science Department

The following courses cover the Pennsylvania academic standards for Science/Technology, and Environmental/Ecology.

Required

9th Grade

9th Grade Science

10th Grade

Keystone Biology

11th Grade

Must take one Academic Chemistry w/Dual Enrollment option or General Chemistry

12th Grade

Must take at least one:

Physics

Applied Science

Advanced Biology w/Dual Enrollment option (successful completion of academic chemistry is a prerequisite)

9th Grade Science:

This course is designed as a course of study to help students further their understanding of chemical and biological/environmental concepts while integrating several key physics concepts. The general areas of study included in ninth grade science are ecosystems and energy (ecology), atomic structure and the periodic table, and the chemical basis of life (organic chemistry). Students will be required to work as scientists keeping an interactive science notebook through inquiry-based lab and classwork, complete assessments, participate in activities and case studies, conduct Internet research, and complete projects / presentations using technology in order to earn credit for this course. Students will be expected to collaborate with their peers on several projects just as scientists do. The standards are based on the PA State Standards anchored by the 2010 Keystone Chemistry and Keystone Biology Standards.

Keystone Biology:

Biology is a yearlong course that seeks a greater understanding of life on the cellular level. We will take an in-depth look at how organelles and other specific cell structures and functions allow organisms to survive in changing environments. Although not a dual enrollment course, the course incorporates both rigor and relevance into daily lessons. Students will be expected to use the scientific process as they engage in inquiry-based, hands-on science lessons covering these topics. This learning process is to be documented daily in an interactive science notebook. Biology students are expected to continue the learning cycle by participating fully in class and out of class through course readings, projects, case studies, and seminars. Multiple learning styles are addressed through class discussions, projects, lectures, technology-integration, and experimentation. Biology will prepare ALL students for a better understanding of living things (including themselves) while providing a strong biological foundation for students planning to take Dual Enrollment Advanced Biology or pursue higher education. This course is based upon the PA Biology standards and aligned to the Keystone Biology Exam anchors.

General Chemistry:

This course is designed for the Vocational School bound student. The course topics include the study of the composition of matter, how elements interact, atomic theory, types of chemical bonding, chemical reactions, gas laws, kinetic theory and stoichiometry; solutions, kinetics and reaction mechanisms, chemical equilibrium, and acids and bases. Throughout the course, connections to natural earth processes will be made. The course is based upon the PA Chemistry standards and aligned to the Keystone Chemistry Exam anchors.

Chemistry:

This course is designed for the college bound student. The course topics include the study of the composition of matter, how elements interact, atomic theory, types of chemical bonding, chemical reactions, gas laws, kinetic theory and stoichiometry; solutions, kinetics and reaction mechanisms, chemical equilibrium, and acids and bases. Throughout the course, connections to natural earth processes will be made. There is an emphasis placed on laboratory work. At the end of the course, the students will have a strong background for any entry level college science coursework. The course is based upon the PA Chemistry standards and aligned to the Keystone Chemistry Exam anchors.

Dual – Chemistry (11th grade):

Additional projects and assignments. In affiliation with Lackawanna College, the course enables the student to receive college credits upon completion. Dual enrollment chemistry is an academically based course for students seeking to attend a 2 or 4 year college program. The course is based upon the PA Chemistry standards and aligned to the Keystone Chemistry Exam anchors.

Applied Science:

This course is designed to help students further their understanding of earth and environmental science while integrating the key concepts of chemistry. Students are expected to use the scientific process to demonstrate an understanding of the Nature of Science while participating in class discussions, labs, and projects. Students are expected to participate fully in classroom activities and laboratory experiences, complete assigned readings, conduct research, and complete projects / presentations using technology in order to earn credit for this course.

Physics – Dual (12th grade):

Physics is a senior high course designed for academic, college bound students. Upon completion of the course, the student will have an understanding of introductory physics principles and concepts. The course involves the use of algebra and basic trigonometry as the primary means of problem solving. The student will learn critical thinking skills, process problem solving skills and develop a solid background for any related college course work. Course topics include mechanics (motion, force and energy), heat, waves, sound, light and electricity. Laboratory computer work is an integral part of the course. This course is available for dual enrollment credit, in affiliation with Lackawanna College.

Advanced Biology – Dual (12th grade):

This class is a course recommended for senior students who plan to have a career in any medical or health-related field. It is also for students wishing to expand their knowledge of human and mammalian biology. Course content includes cell structure and function, histology, and an in-depth study of the systems of the human body enhanced with laboratory investigations. Current topics and career exploration are included as a part of the curriculum. Mammalian dissections are a requirement of the course. In affiliation with Lackawanna College, the course enables the student to receive college credits upon successful completion.

Social Studies Department

The following courses cover the Pennsylvania academic standards associated with Social Studies: History, Civics and Government, Economics, and Government. *In all required Social Studies courses, students undertake primary source analysis, independent research, and data interpretation activities to build the skills required by the Pennsylvania Standards associated with Social Studies.*

American History Survey (9th grade)
Personal Economics (9th Grade rotational)
World History and Geography (10th Grade)
Principles of Economics (11th Grade)
Government (Dual Enrollment – 12th grade)
Psychology (Dual Enrollment--11th & 12th Grade)

American History Survey (9th Grade)

This course as provided in Susquehanna Community High School attempts to examine the full sweep of American History in a manner meaningful to today's students. The approach is interdisciplinary, involving Anthropology, Sociology, Geography, and other Social Sciences. The focus is on the people of America and the values that shaped the nation, past and present. The major focus of the year will revolve around 5 units of study--The American Revolution, the Civil War, World War I, World War II and America Since 1945. Upon completion of this course students should have acquired an understanding and appreciation of the values and responsibilities necessary to cope with the complexities of life in a 20th century democracy.

Personal Economics (9th Grade)

This is a 45 day rotational course for all 9th graders held on four of the six day cycle. This course allows students to work with income, budgets, taxes and includes a visit to the *Junior Achievement Finance Park* in Pittston, PA for a real-life simulation. Working with hands on materials and situations, students will gain knowledge of how working citizens manage their income in the world today.

World History and Geography (10th Grade)

This course will cover the time period from the Renaissance to the Franco-Prussian war of 1871 in depth and coordinate with American History II for the time period 1871 to present. The history of Western Civilization and its geography will be emphasized.

Principles of Economics (11th grade)

This course will cover three basic units of Economics: economic systems, money and banking, government and the economy. Within these units certain issues will be covered such as: central planning, free market systems, the stock market, saving and investing, various taxes, federal budget, and the Federal Reserve system.

Government – Dual (12th grade)

This course is meant to introduce seniors to the workings of the United States government and their role as citizens in the United States. The course will cover the creation of the United States, the writing of the Constitution, the rights that all American citizens are given and the workings of the national, state and local governments within the nation. Civil liberties and civil rights will also be a major focus, allowing students to better understand their Constitutional rights. The course is available for dual enrollment credit, in affiliation with Lackawanna College.

Psychology - Dual (11th & 12th grades)

The role of psychology is to introduce the student to the study of the mind and brain, the most important parts of all of us. Psychology deals with several concepts: History of Psychology as a Science, Developmental Psychology, the Brain and its Physical Process, Sensation and Perception, Learning and Forgetting, Language and Communication, Emotions, Personality, personality Disorders, Personality Therapies, Social Psychology. The course is designed for college bound students. This course is available for dual enrollment credit, in affiliation with Lackawanna College.

Technology Education

The following courses cover the Pennsylvania academic standards for Science and Technology.

- PLTW-Electronics-9th grade
- Production Systems-10th, 11th, & 12th grades
- Introduction to Engineering Design-9th, 10th, 11th & 12th grades
- Principles of Engineering-10th, 11th& 12th grades
- Civil Engineering and Architecture-10, 11th & 12th grades

Project Lead The Way-Electrons-Tech 9 rotation (1/4 credit)

"Magic-of-Electrons" is the last phase of the Gateway To Technology offered through Project Lead the way for the middle school level. In this course, all freshmen will learn the electronic theory through a hands-on approach to education. Students will gain knowledge in both traditional electronics as well as Digital Electronics.

Production Systems (1 credit)

Productions Systems is a course designed to give students a hands-on experience using various machinery and fabrication technique to create a marketable product. Production requires safe and effective use of high powered equipment in order to achieve a quality produced product. Production Systems is a combination of both the Metal working and Woodworking labs. The Metalworking aspect will focus on shop safety, oxy/acetylene welding and cutting, foundry, arc welding, machining and other various tooling procedures, whereas the woodshop will also focus on shop safety and various tooling to produce high quality projects.

* It is highly recommended to take Introduction to Engineering Design prior to taking Production Systems.

PLTW- Introduction to Engineering Design (IED) (1 credit)

This course is a first year sequence of multiple engineering based courses available. The course is geared towards freshman and sophomores; however juniors and seniors may also enroll. IED uses 3D computer modeling software, students learn the design process and solve design problems for which they develop, analyze, and create product models. IED is the first of few courses that will be made available through Project Lead the Way.

PLTW- Principles of Engineering (POE) (1 credit)

POE is the second course in the PLTW sequence that is designed for 10th or 11th grade students, this survey course exposes students to major concepts they'll encounter in a post-secondary engineering course of study. Topics include mechanisms, energy, statics, materials, and kinematics. They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges, document their work and communicate solutions.

*Pre-requisite for this course is successful completion of Introduction to Engineering Design, and is highly recommended to be proficient in Algebra.

PLTW- Civil Engineering & Architecture (CEA) (1 credit)

CEA is the third course in the PLTW sequence offered for juniors and seniors. Students learn about various aspects of civil engineering and apply their knowledge to the design and development of residential and commercial properties and structures. In addition, students use 3D design software to design and document solutions for major course projects. Students communicate and present solutions to their peers and members of a professional community of engineers and architects.

*The pre-requisite for this course is the successful completion of the IED, and POE course, or with instructor approval.

Programs at (SCCTC)

Susquehanna County Career and Technology Center

Seniors from Susquehanna Community High School may attend the SCCTC for a full day in the program of their choice. Transportation is provided to and from the school. Visit SCCTC's website to view more specifics about each program: www.scctc-school.org/

The SCCTC has an open admissions policy. There are sufficient openings available for all students who wish to apply. Funding is available to assist students in purchasing uniforms and tools.

PROGRAMS OF STUDY (POS)

Mission of SOAR

The mission of SOAR (Students Occupationally and Academically Ready) is to prepare students for college and careers in a diverse, high-performing workforce.

Goal of SOAR

SOAR is the career and technical Program of Study (POS) educational plan that articulates the secondary career and technical to postsecondary degree or diploma or certificate programs. SOAR programs lead students into a career pathway that align the secondary courses to a postsecondary program to complete a degree or certificate.

What is SOAR?

SOAR is built on programs of study which incorporate secondary education and postsecondary education elements and include coherent and rigorous content aligned with challenging academic standards and relevant career and technical content. These career and technical programs of study includes a statewide articulation agreement partnership between secondary schools and postsecondary institutions.

SOAR Supports High Demand Careers

SOAR programs prepare today's student for High Priority Occupations (HPO) which include career Categories that are in high demand by employers, have higher skill needs, and are most likely to provide family sustaining wages.

Benefits of SOAR

- Saving Money on College Tuition
- Saving Time by Shortening College Attendance
- Getting on the Right Career Pathway
- Entering the Job Market Ready
- Getting a Consistent Education

Accounting Technology/Technician and Bookkeeping (CIP 52.0302)

The **Accounting Program** is designed to provide technical administrative support to professional accountants and other financial management personnel. Students learn to use generally accepted accounting principles in manual and computerized formats to complete the steps of the accounting cycle for various forms of business ownership; verify and enter details of transactions from source documents into journals; post transactions to accounts; summarize details of separate ledgers by transferring data to general ledgers; balance records and compile various financial statements and reports; prepare withholding, social security, and other tax reports; compute, type, and mail monthly statements to customers; complete records through the prior balance; and operate calculators, computers, and spreadsheet and accounting application software. Students also receive instruction in business ethics, business law, economics, office procedures and public relations. Students are provided experiences and instruction needed to satisfy initial employment requirements for accounting, computing and data capturing occupations and/or prepare them to further their education in a business related field or the post-secondary/college environment

Administrative Assistant and Secretarial Science (CIP 52.0401)

The **Administrative Assistant/Secretarial Science Program** is designed to prepare students to perform the duties of administrative assistants and/or secretaries and related occupations. Students compose, key, format and process documents (correspondence, reports, tabulations and forms); compile, proofread, edit and correct documents; operate dictation/transcription equipment and computers; use word processing, spreadsheet, database, desktop publishing, presentation and communication software; receive, distribute and sort incoming mail; prepare outgoing mail; perform basic mathematical functions; operate office equipment; perform records management duties; communicate with others in person, in writing and by telephone; and perform receptionist duties. Students also receive instruction in business ethics, principles of business law, office procedures, public relations and accounting. Students are provided experiences and instruction needed to satisfy initial employment requirements for administrative assistants and secretaries.

Autobody/Collision and Repair Technology/Technician (CIP 47.0603)

The **Autobody/Collision Repair Program** prepares individuals to apply technical knowledge and skills to repair damaged automotive vehicles such as automobiles and light trucks. Students learn to examine damaged vehicles and estimate cost of repairs; remove, repair and replace upholstery, accessories, electrical and hydraulic window and seat operating equipment and trim to gain access to vehicle body and fenders; remove and replace glass; repair dented areas; replace excessively damaged fenders, panels and grills; straighten bent frames or unibody structures using hydraulic jacks and pulling devices; and file, grind and sand repaired surfaces using power tools and hand tools. Students refinish repaired surfaces by painting with primer and finish coat.

Automotive Technology (CIP 47.0604)

The **Automotive Technology Program** provides the student with practical instruction in the diagnosis, repair, and adjustment of all phases of the automobile. Instruction will also be given on the use of up-to-date equipment used in areas such as analyzing, fuel injection, ignition, electrical controls, ABS braking systems, computer engine controls, four-wheel alignment, and State Safety Inspection. Upon successful completion of this program, the student will be able to test for a State Inspection Mechanic license, and may seek entry level employment as an automotive technician, automobile salesperson, garage salesperson, service manager, parts salesperson, or service writer.

Building and Property Maintenance (Electrical, Plumbing & Heating) (CIP 46.0401)

In the **Electrical, Plumbing & Heating Program** students will experience hands-on training as well as classroom theory in Basic Residential Wiring, Plumbing, and Heating. During the first year, the student will practice developing basic skills by installing common electrical circuits, fixtures, and equipment as well as basic carpentry skills. The second year will consist of practice in joining common piping systems, fixtures, and equipment. Advanced plumbing systems will be installed during the third year. The student will also practice basic skills needed to install, maintain, and troubleshoot residential oil fired hydronic systems and forced warm air systems. The student will also practice basic skills in the areas of stick arc welding, oxyacetylene cutting, welding, and brazing.

Carpentry and Cabinetmaking (CIP 46.0201)

Students enrolled in the **Carpentry and Cabinetmaking Program** will study a number of related areas so that he/she will possess adequate entry level skills to work in the area of building construction. The carpentry unit, for example, gives actual experience in layout, cutting and fitting wood members, rafter cuts, roof or platform framing, and selection of general building materials. The students will also hone their skills completing carpentry projects and working at the on-site house construction project. Upon successful completion of this program, the student may seek employment as an apprentice cabinetmaker, materials salesperson, roofer, rough carpenter, sheetrock installer, framer, or siding installer.

Cosmetology (CIP 12.0401)

The **Cosmetology Program** prepares individuals to apply technical knowledge and skills related to experiences in a variety of beauty treatments including the care and beautification of the hair, complexion and hands. Instruction includes training in giving shampoos, rinses and scalp treatments; hair styling, setting, cutting, dyeing, tinting and bleaching; permanent waving; facials; manicuring; and hand and arm massaging. Bacteriology, anatomy, hygiene, sanitation, salon management including record keeping and customer relations are also emphasized.

Food Management/Production/Services (CIP 12.0508)

Beginning with the basics, students In **Food Management/Production/Services** will proceed to intermediate and advanced levels to develop a solid foundation in Culinary Arts. Through lecture and cooking demonstrations, the student will learn the techniques of fine cooking. Classes will cover the basics of cooking and baking and the provisions used to create effective and elegant menus for the most discriminating palate. With instructor supervision, the students will then hone these skills by operating their on-site restaurants, “A Touch of Class” and The Serfass Solarium. The restaurants offer the students the opportunity to culminate all laboratory experiences as they rotate through all positions in management, production, and services perfecting skills and techniques. Upon successful completion of this program, the student may seek employment as a baker, cashier, caterer, chef, host, hostess, line cook, restaurant manager, salad maker, short-order cook, dining room service personnel, or any of the vast number of culinary positions. They may continue their restaurant management education in the hotel restaurant management or culinary arts fields.

Health Care Technology (CIP 51.0899)

The **Health/Medical Assisting Program** is a combination of subject matter and experiences designed to prepare individuals for entry-level employment in a minimum of three related health occupations under the supervision of a licensed health care professional. Instruction consists of core course content with clinical experiences in one or two health related occupations. The core curriculum consists of planned courses for introduction of health careers, basic anatomy and physiology, and medical terminology. Additional content includes: legal and ethical aspects of health care and communications and at least three planned courses for the knowledge and skills for the occupational area such as medical assisting, ward clerk, nursing assisting, pharmacy technician, EKG Technician, etc. Students may also continue their education in a post-secondary/college environment.

Criminal Justice and Police Science (CIP 43.9999)

The **Criminal Justice and Police Science** is an instructional program that prepares individuals to apply technical knowledge and skills that relate to performing entry level duties as a patrolman, corrections officer, juvenile officer, security officer or probation officer. The course stresses patrol and related duties such as traffic and crowd control, the American legal system, techniques used in the police laboratory and training in emergency and disaster situations. Also stressed is physical development with a strong emphasis on self-defense and the building of self-confidence. Investigatory techniques covered are interviewing and evidence gathering, report writing, a study of juvenile law and procedure, the techniques of crime prevention, and the criminal process from arrest through conviction. Procedural matters affecting law enforcement such as arrest, search and seizure, and legal principles developed in information lessons are utilized in supervised simulated situations.

Vehicle Maintenance and Repair Technologies (CIP 47.0699)

The **Vehicle Maintenance and Repair (Small Engines)** program prepares individuals to apply technical knowledge and skills to repair, service, maintain and diagnose problems on a variety of small internal-combustion gasoline engines and related systems used on portable power equipment such as lawn and garden equipment, chainsaws, outboard motors, rototillers, snowmobiles, lawn mowers, motorcycles, personal watercraft and pumps and generators. This program includes instruction in the principles of the internal-combustion engine and all systems related to the powered unit. Instruction also includes the use of technical and service manuals, state inspection code, care and use of tools and test equipment, engine tune-up/maintenance, engine overhaul, troubleshooting and diagnostic techniques, drive lines and propulsion systems, electrical and electronic systems, suspension and steering systems and service operations and parts management.

Welding Technology/Welder (CIP 48.0508)

The **Welding Program** prepares individuals to apply technical knowledge and skills in gas, arc, tig, shielded and non-shielded metal arc, brazing, flame cutting, plasma cutting and plastic welding. Hand and semi-automatic welding processes are also included in the instruction. Students learn safety practices, types of electrodes and welding rods; properties of metals, welding symbols, blueprint reading, use of equipment for the testing of welds by destructive and non-destructive methods, use of manuals and specification charts, use of hand and portable power tools, use of metal fabricating equipment, positioning and clamping, and welding standards established by the American Welding Society, American Society of Mechanical Engineers and the American Petroleum Institute. Students will receive OSHA safety training and have the opportunity to become AWS Certified Welders.

Susquehanna County Career and Technology Center (SCCTC)