

Senior High Program of Study

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 grades 11th and 12th 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/Bookkeeping, Administrative Assistant/Secretary, Autobody/Collision and Repair, Automotive Technology, Building and Property Maintenance (Electrical, Plumbing, Heating), Carpentry/Cabinetmaking, Cooperative Education/Diversified Occupations, Cosmetology, Food Management, Health Care Technology/ Security and Protective Services, 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

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 (for course descriptions, go to

- English 9*
- American History Survey 9*
- Course 2 , Course 3, Keystone Algebra I *, Bridge Algebra
- Earth/Physical Science *
- Microsoft Office or PLTW-IED
 - Physical Education
 - Web Tech 9
 - Today's Tech 9
 - Intro to Family and Consumer Science 9
 - Personal Economics 9

- Elective

Electives:

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

*NCAA Core Course

Tenth Grade (for course descriptions, go to

- Keystone Literature 10
- World History and Geography 10*
- Bridge Algebra, Keystone Algebra I, Geometry
- Keystone Biology
- Physical Education
- Driver Education (online delivery through vdriveusa.com)
 - PSSA Test Prep 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
 - Drawing/Painting
 - Production Systems (Wood+Metal)
 - Microsoft Office
 - Computer Science
 - Senior Band
 - Senior Chorus
 - Theory: Performance of Popular Music
 - Online Foreign Languages through the Blended School Language Institute:
 - Mandarin Chinese
 - Japanese
 - Russian
 - Arabic
-
- *NCAA Core Course

Eleventh Grade (for course descriptions, go to

- English 11- Dual or English 11*
- Economics *
- General Chemistry, Chemistry*, Dual Chemistry*
- Keystone Algebra I, Algebra II, Advanced Concepts II, Bridge Algebra, Geometry, Probability/Statistics
- 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
- Drawing/Painting
- Senior High Band
- Senior Chorus
- Theory: Performance of Popular Music
- Microsoft Office
- Computer Science
- Spanish III
- Online Foreign Language through Blended Schools Language Institute
 - Mandarin Chinese
 - Japanese
 - Russian
 - Arabic

- *NCAA Core Courses

Twelfth Grade (for course descriptions, go to

- English 12/Speech – Dual or **English 12/Speech***
- Government*
- Calculus, Advanced Math Concepts II, Probability/Statistics, Geometry, Math Fundamentals
- Physics*, 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
 - Security and Protective Services
 - 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
- Drawing/Painting
- Senior Band
- Senior Chorus
- Theory: Performance of Popular Music
- Microsoft Office
- Computer Science
- 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](#)
- [Business/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.

The following course covers the Pennsylvania academic standards for the Arts and Humanities.

Basic Drawing 1:

This 180-day elective course serves as an introduction to visual expression through a variety of black and white media. Students will utilize both the elements and principles of art and design to produce compositions of still lifes, landscapes, and portraiture. Through both representational and abstract platforms, students will generate compositions employing a use of formal concepts such as line, texture, value, and perspective.

Business/Computer Department

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

Web Tech 9	9 th
Intro to Business (Careers)	10 th
Microsoft Office	9-12
Computer Science	10-12

Web Tech 9:

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 study “design elements” as they pertain to the web. They will explore basic design principles and construct several “well-designed” projects by the end of the quarter. The concept of programming and coding will be introduced.

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 discover possible career paths and research various careers. Students will create several technology-based projects such as a research paper, resume, cover letter, and a commercial highlighting a career of interest. Students will have opportunities to interview guest speakers and visit local businesses as part of this course. 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 complete a job application and participate in a mock interview.

Microsoft Office:

This 180-day course will cover 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. Students will also explore the use of Google’s applications including: Docs, Sheets, and Presentation. They will compare and contrast the Microsoft Office applications to Google’s versions of the same programs.

Computer Science:

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. This content will include human computer interaction, problem solving, web design, coding and programming (Scratch and Python), computing and data analysis, and robotics. Students will complete a wide variety of application-based projects for use on computers and mobile devices. The foundations for this course were established in the 9th grade Web Tech course. Online materials provided by MIT, Code.org, and many others will be utilized.

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

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

English 10 is designed to meet the needs of both the college-bound students and those planning to enter the work force 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.

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:

English 12-I/ENG 110: Introduction to Literature (Dual Enrollment)

The prerequisite for this course is that students must pass English 11-I/ENG 105: English Composition (Dual Enrollment) with a college grade of “C” offered in conjunction with Lackawanna College.

Course Description: (From the Lackawanna College Course Catalogue)

English 110 introduces students to poetry, prose, and drama while acquainting them with critical frameworks for interpreting literature. The course will employ a holistic approach to writing as a process, requiring students to compose original, critical essays that discuss primary literary works. While requiring classes to employ sound research skills, the course will allow individual students to develop critical approaches related to their academic and personal experiences.

In addition to the standards required by Lackawanna College, students will develop writing, research, and critical thinking skills through diverse reading assignments, writing assignments, and Socratic Discussions and Reflection Papers. By reading the great works of literature from the Ancient Greeks through the Post Modern Europeans, students learn to analyze what they read and add it to both their consciousness and consciences, thus providing a moral basis for making choices in their own lives. To assist them toward this end, students will accurately use precise literary terms as they discuss and write about the literature they read. In addition, students will support their analyses and assert their conclusions through careful and well-documented research using Modern Language Association (MLA) citation methods.

English 12-II

English 12-II is a general course in English which emphasizes British literature and process writing. Students will study various eras and genres of British literature from the Early Middle Ages to the Twentieth Century. The writing component of this course will deal primarily with proper usage and sentence structure as well as grammar and style. Compositions will be based on literature as well as the personal interests of students. Students will also study the history and development of the English Language.

Speech/Writing

This is a one credit course required for seniors. Students will be responsible for learning the methodologies, strategies, and deliveries used to become confident and comfortable as speakers. Students will also enhance their writing skills by responding to various ethical situations related to public speaking in a series of journal entries.

Speech & Writing/COM 125: Effective Speech (Dual Enrollment)

Course Description: From the Lackawanna College Catalogue

This course stresses the various methods of speech for effective oral communication. Special emphasis is placed on the informative and persuasive speech, as well as on group presentations. A variety of formal and informal speaking situations provide the student with a balance between the study of principles and practice.

In addition to the requirements of Lackawanna College, students will write a series of journal essays which will serve as the basis for a variety of speech topics, anchor the morning news broadcast (SNN), and participate in Socratic Seminars.

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.

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 back ground 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.

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 American Heart Association is available in both areas. Acquired Immune Deficiency Syndrome (AIDS) instruction is given in understanding and prevention which includes information about AIDS and the immune system, the history of the disease, how the virus is detected and discussions of current treatment and research. This is accomplished through classroom discussions, videos, work sheets and guest speakers.

Physical Education:

Physical Education is that phase of education which endeavors to promote physical fitness through instruction and participation in activities which develop strength, speed, agility, endurance, fundamental motor skills and a wide range of skill and knowledge in sports. It aims to develop desirable habits of individual and social conduct and attitudes favorable to maintenance of physical fitness by participation and preparation. All physical Education students who have a medical excuse or miss class as a result of O.S.S. (out of school suspension) 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 refereeing. (2). Students will go to the library or study hall with a term paper assignment, which must be handed in at the end of the medical excuse or quarter to receive a grade. The Physical Education grading system is based on being prepared for class with proper P.E. uniform. It also includes full participation by the student's in class. If the student does not have the proper uniform and /or footwear for P.E., it will be considered an unexcused class. The student will have 6 points deducted from his or her quarter grade. However, 9 unexcused classes from the school year means that the student did not receive credit for the course regardless of numerical grade

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.

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:

The course covers the Pennsylvania academics standards for Math. The Saxon Math Direct Instruction Program and the Accelerated Math Program will be utilized. These programs are designed to give students basic skills as they continue to work toward grade level.

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

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.

Mathematics Department

Carnegie Math is an integrated series which includes Course 1,2,3; Bridge Algebra, Common Core Algebra 1, Algebra 2 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(implemented 2013/14)
Course 3- 7th,8th grade(implemented 2013/14)
Bridge Algebra- 8th,9th,10th(implemented 2013/14)
Keystone Algebra 1- 9th,10th(implemented 2013/14)
Algebra 2- to be implemented for 2015/16
Geometry- 9th,10th,11th,12th(implemented 2014/15)
Mathematics Fundamentals 10th, 11th & 12th grades
Advanced Mathematics II 10th, 11th, 12th grades
Calculus 12th grade
SAT Prep 11th grade
Probability & Statistics

The mathematics department has begun phasing out Saxon Mathematics in 2013.

The Saxon Mathematics secondary mathematics program is a three book series comprised of Algebra 1, Algebra 2, and Advanced Mathematics. All of what is traditionally covered in secondary school mathematics up to calculus is covered in this three book series. The subject area of geometry is fully encompassed in the three book series. Though there is not a separate geometry text, students completing Algebra 2 will have completed the equivalent of a course sometimes referred to as informal geometry. Students completing both Algebra 2 and Advanced mathematics texts will have completed the equivalent of one full year of formal geometry. In summary, students completing the three course series, Algebra 1, Algebra 2, and Advanced Mathematics will have completed the equivalent of two full years of Algebra, a full year of Geometry, a semester of trigonometry and a semester of Advanced Algebra/Pre-calculus. One important note Advanced Mathematics will be a 2-year course. The mathematics courses listed below also utilize Accelerated Mathematics as a supplemental learning tool.

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.

Calculus:

We will be using the Saxon Calculus Series. A strong Trigonometric, Geometry, Algebra and problem solving background is necessary to succeed in Calculus. Ability to use both a Scientific and Graphing calculator is necessary. The first semester will include functions, limits, continuity, and derivatives. The second semester will include integration, application and basis of Analytical Geometry. Problem solving will be stressed throughout the entire courses.

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.

Advanced Mathematics II:

Advanced Mathematics is a combination of higher level Algebra, Trigonometry, Formal Geometry and Pre-Calculus. Students must have successfully completed Algebra I & II to enroll in this course. This is a 2 year sequence of study and will usually be taken in the junior and senior year.

Probability & Statistics:

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.

Music Department

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

The music department offers to you many performing organizations called ensembles. The two basic ensembles are Band and Chorus. From these basic ensembles, other select groups may be formed such as: Select Chorus, Jazz Band, Brass Quintet, Pep Band and more.

Chorus 9, 10, 11, & 12 grades

Concert Band 9, 10, 11, & 12 grades

Intro to Music and Dance 10th grade

Theory and Performance of Popular Music 10, 11, & 12 grades

Chorus: Chorus offers a chance for students grades 7-12 to sing in a mixed ensemble. All students wishing to perform with the chorus should register for this course. Highly motivated students have the opportunity to audition for select ensembles as well. This ensemble will be required to perform at community and school functions. These functions may occur on weekends, holidays, and evenings. Holiday and Spring concerts are examples of required performances that are outside of the school day. Chorus members may also be eligible to audition for Susquehanna County and Pennsylvania Music Educators Association events (Song Fest, District, Regional and State). Senior chorus meets 3 periods per week.

Concert Band: Concert Band is an advanced ensemble currently consisting of seventh-twelfth grade instrumentalists that meets 3 periods per week. This ensemble will refine basic instrumental techniques and teach advanced music. This ensemble will be required to play at community and school functions. These functions may occur on weekends, holidays, and evenings. Holiday and Spring concerts, as well as Memorial Day and graduation, are examples of required performances that are outside the school day. 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 (Band Fest, District, Regional and State). Band meets 3 periods per week.

Intro to the Fine Arts: Music and Dance: 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 develop perceptive listening skills that will allow them to respond to and critique music on a deeper level. Students will create and perform original compositions as well as discover the importance of the history of music. The dance portion of this course allows students to gain knowledge of the significance of dance throughout history. Students will develop an awareness of specific dance forms and will have the chance to trace the origins of social dance.

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:

An Integrated Approach to the sciences:

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 9th 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. 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:

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.

Chemistry:

A course 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.

Dual Enrollment Chemistry:

Additional projects and assignments. In affiliation with Luzerne County Community 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.

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:

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 a 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.

Dual Enrollment Advanced Biology:

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 opportunities are included as a part of the curriculum. Mammalian dissections or suitable alternatives are a requirement of the course. In affiliation with Luzerne County Community 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 (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 (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 so students can better understand their Constitutional rights.

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.

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

Juniors and 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.

Security and Protective Services (CIP 43.9999)

The **Security and Protective Services** program prepares individuals to apply technical knowledge and skills required to perform entry-level duties as a police officer, fire fighter, paramedic and other safety services. This program stresses the techniques, methods and procedures peculiar to the areas of criminal justice and fire protection especially in emergency and disaster situations. Physical development and self-confidence skills are emphasized due to the nature of the specific occupation(s). In addition to the application of mathematics, communication, science and physics, students receive training in social and psychological skills, map reading, vehicle and equipment operations, the judicial system, pre-hospital emergency medical care and appropriate emergency assessment, treatment and communication.

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, chain saws, 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)