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INTRODUCTION

This COURSE SELECTION GUIDE has been developed to enable students together with the help of their parents, school counselor, and teachers to set educational and vocational goals for themselves. Course selection should not be viewed as a one year at a time exercise, but as a four year long master plan. Choosing the right courses that align to your future is an important step in achieving your goals. We continually revise our course options to meet student interest. Courses are run based on student interest so not all courses in this guide will have enough interest to be on the actual schedule. Please take the time to read the course descriptions and requirements to select the courses that are appropriate. The high school administration reserves the right to make adjustments as needed to best meet students' academic needs.

SCHOOL CYCLE – ODD/EVEN DAY CYCLE

Sayre Area High School operates on an eight (8) period day with an additional thirty (30) minute lunch period. A normal class load is seven (7) credits. The school schedule revolves around an odd/even schedule. Therefore, one half (1/2) credit courses can meet every other day (odd or even days) for the entire year or every day for a semester or eighteen (18) weeks. One quarter (1/4) credit courses will meet every other day (odd or even days) for a semester or eighteen (18) weeks).

SCHEDULING

Students should begin to develop a plan for after high school: post-secondary education, military, or employment. Students should put time and effort into the course selection process. Scheduling should complement those choices. The selection of courses and area of concentration should be a joint effort involving the student, the parents, and the teachers.

Students or parents who would like a conference with Mrs. Richmond, the School Counselor, are encouraged to contact the Guidance Office at 888-2190.

AFTER THE START OF SCHOOL, STUDENTS WILL BE GIVEN A ONE-WEEK TIME SPAN TO MEET WITH THE SCHOOL COUNSELOR TO DISCUSS PROBLEMS WITH THEIR SCHEDULE. AFTER THAT ONE WEEK PERIOD, ALL SCHEDULES ARE FINAL. Exceptions will be made and only granted in extreme situations and only with the approval of the high school administration.

SAYRE AREA JR. SR. HIGH SCHOOL

GUIDANCE OFFICE

331 WEST LOCKHART STREET

SAYRE, PA 18840

(570) 888-2190

School Counselor – Stacy Richmond

Guidance Secretary - Debra Brandt

School CEEB Code – 394375

Web Site – www.sayresd.org

COURSE LEVELS

Accelerated College Education (ACE): Courses with this description offer college credit through Corning Community College. Students who wish to receive college credit are given the opportunity to pay for the course at a reduced fee (estimated cost \$59/credit) or they may take the course for high school credit only with no fee attached, with the exception of materials cost. Students who sign up for an ACE course will be automatically registered through Corning Community College. If a student elects not to take the course for college credit, they need to contact Corning Community College by the deadline (which they will be made aware of). If Corning Community College is not contacted by the drop date, the student will be billed and expected to pay.

Advanced Placement (AP): Students who elect this option will receive high school credit but have the option to take an Advanced Placement Exam at the end of the course for possible college credit. **The AP Exam(s) must be paid for by the student in advance of the testing date if the student chooses to take the exam(s).** (Estimated cost \$84 per test.)

Honors (H) – Courses that include more challenging material than the college prep curriculum and require additional in and out of school commitment on the part of the student.

College Prep (CP) – Challenging courses to prepare students for the demands of post-secondary education.

General (G) – Basic level courses for students who plan to go to two year programs (community college, trade, technical, or business school) or enter the work force after graduation.

**STUDENTS ARE PLACED IN THE ABOVE LEVELS BY TEACHER
RECOMMENDATION. ANY QUESTIONS REGARDING PLACEMENT LEVEL
SHOULD BE DIRECTED TO THE TEACHER.**

GRADING SCALE

<u>Numerical Grade</u>	<u>Letter Grade</u>
93 to 100	A
85 to 92	B
77 to 84	C
70 to 76	D
69 & Below	F

GRADUATION PROJECT COURSE DESCRIPTION

The Senior Project is a graduation requirement required of all students by the Sayre Area School District starting with the class of 2017. It is designed to represent an exhibition of the skills a senior has learned throughout their high school experience. The project consists of ten hours of community service, prepare a resume, complete a job OR college application, present the life lessons learned in a bound or electronic portfolio showcasing the project. In addition, students must choose between two projects: #1 – Community Service Project, approved by the project advisor and be a minimum of 25 hours (NOT to be included with the ten hours done beginning junior year.) There is also a requirement of a written three page MLA reflection/research paper. #2 – Choose and visit two college/university/military establishments. You may also meet with three college representatives in the Guidance Office throughout the year to equal one campus visit. In addition, complete two job shadows with documentation. You may attend Career Panels in place of the actual shadow. There is also a requirement of a written three page MLA reflection/research paper. Students are to begin working on this project the summer prior to their junior year and continue until the project is presented in the second semester of their senior year. There is no class time assigned to completing the project. Students are encouraged to use our Career Development liaison, Mrs. Johnson who can be contacted through the guidance office, as a resource to help schedule job shadowing experiences. A committee of faculty members review the project to determine if it meets the guidelines for graduation. More information and the required forms are located on our website, www.sayresd.org . You may also email the senior project coordinator, Ms. Christine Davis, at cdavis@sayresd.org .

COLLEGE PREPARATORY CURRICULUM

The College Preparatory program places emphasis on mathematics, social studies, the sciences and languages. This program is tailored to prepare students who wish to continue their formal education at a college or university. While this offering is strongly recommended for the college bound, it is also valuable for any student who is interested in continuing with an educational program after high school and for students who need to meet eligibility requirements to play a D1 or D2 sport in college. It allows for greater career options in later years.

Grade 9

English 9 CP or H
American History 1 CP
Science 9 CP or Biology CP
Geometry
French 1 or Spanish 1
Phys. Ed./MS Office
One elective *

Grade 10

English 10 CP or H
Global History & Culture I CP
Biology CP or Chemistry CP
Algebra 2
French 2 or Spanish 2
Phys. Ed./Driver's Ed./21st Century Skills Course
One elective *

Grade 11

English 11 CP or H
Global History & Culture II CP
Chemistry CP or Physics H
and/or Biology 2H and/or Chemistry 2H
Pre-Calculus CP
Phys. Ed./Health
Two electives*

Grade 12

English 12AP/ACE or English Lit/Comp CP
Senior Social Studies
Mathematics of Physics H and/or
Biology 2H and/or Chemistry 2H
Calculus H/ACE or Statistics H/ACE
Phys. Ed.
One elective *

- * An elective is any course, which is not specifically required for graduation. Students may choose any elective, provided that they are in the appropriate grade and have completed any pre-requisite requirements.

ACADEMIC REQUIREMENTS FOR COLLEGE BOUND ATHLETES

In order to be eligible to compete athletically as a freshman in college, you will need to make certain that you meet the academic eligibility requirements of the Athletic Association where you are planning to participate, whether you hope to compete in the NCAA, NAIA, or the NJCAA, you must realize that it's not just athletic talent that determines whether you will be able to participate. Just as important, if not more, are the academic requirements that relate to the course schedule you carry each year in high school. Each Athletic Association has their own initial eligibility standard, which is determined using a combination of required core courses, a core GPA, and a standardized test score. Information and a list of requirements and approved courses can be found at the following web sites:

NCAA -- www.ncaaclearinghouse.net
NAIA -- www.naia.org
NJCAA -- www.njcaa.org

It is strongly recommended that you consider these requirements when planning your schedule for grades 9-12. (Wire, Rick: The Student Athlete & College Recruiting)

PLEASE NOTE: General Level Courses do NOT meet core course requirements for the NCAA (D1 & D2 sports)

GRADUATION CREDITS	
Requirements	
English	4 Credits
Social Studies American History Global History & Culture I Global History & Culture II Senior Social Studies	4 Credits
Mathematics	3 Credits
Science	4 Credits
Physical Education	2 Credits
Health	½ Credit
MS Office	½ Credit
Driver Education	¼ Credit
Electives	5 ¾ Credits
Graduation Project	-----
TOTAL:	24 CREDITS

Students must be scheduled for a **minimum** of six and one-half (6-1/2) credits per year.

To Be Promoted To Grade	Credits Earned
10	6 Credits
11	12 Credits
12	18 Credits
Graduation	24 Credits

If you choose to repeat a class that you passed, you will earn 0 credits for the second class. You cannot earn another credit in a course you already passed. The only classes that can be repeated for credit are Yearbook, Woodshop, Fitness for Life, Instrumental Music and Concert Choir.

COURSE OFFERINGS

ENGLISH

English 9 H
English 9 CP
English 9 G
English 10 H
English 10 CP
English 10 G
English 11 H
English 11 CP
English 11 G
English 12 AP/ACE
English 12 CP Lit/Comp
English 12 G Lit/Comp
Mass Communications
Yearbook

SOCIAL STUDIES

American History CP
American History G
Global History & Culture I CP
Global History & Culture I G
Global History & Culture II CP
Global History & Culture II G
Modern American History CP
Modern American History G
Economics CP
Social Studies 12 G
Psychology

SCIENCE

Science 9 CP
Science 9 G
Biology CP
Biology G
Chemistry CP
Chemistry G
Biology 2 H
Chemistry 2 H/ACE
Physics H
Science Today G
Biology of Organisms

MATHEMATICS

Pre-Algebra
Algebra 1
Geometry
Algebra 2
Pre-Calculus CP
Statistics H /ACE
Calculus H/ACE
Math for Personal Finance

STUDENT ENHANCEMENT

21st Century Skills Course

BUSINESS

MS Office (Grade 9)
Computer Apps CP/ACE
FYEX 1000 CP/ACE
Accounting I
Law for Business & Personal Use
Introduction to Business

FOREIGN LANGUAGE

French 1
French 2
French 3 CP
French 4 CP
Spanish 1
Spanish 2
Spanish 3 CP
Spanish 4 CP
Italian 1
Italian 2

FAMILY AND CONSUMER SCIENCE

Family & Consumer Science 1
Family & Consumer Science 2
Single Living
Food Service

INDUSTRIAL ARTS TECHNOLOGY

Wood Technology 1
Wood Technology 2/3
Computer Aided Drafting (CAD)
Basic Electricity & Electronics

PRE-ENGINEERING AND ENGINEERING TECHNOLOGY

Design Drawing & Production
Principles of Engineering
Digital Electronics
Computer Integrated Manufacturing *
(*To be offered 2018/19 school year)
Civil Engineering & Architecture
Engineering Design and Development

MUSIC

Concert Band
Concert Choir
Music Technology/Stage Crew Class

PHYSICAL EDUCATION

Driver Education
Health 11
Fitness for Life
Physical Education 9-12

ART

Drawing & Composition
Ceramics & Sculpture
Digital Design
Digital Photography
Painting
Studio Art

VOCATIONAL-TECHNICAL COURSES

Building Construction Trades
Electrical Occupations
Mechanical Trades (HVAC-Plumbing-
Electrical)
Automotive Mechanics Technology
Collision Repair Technology
Diesel Mechanics Technology
Health Assistant/Pre-Nursing
Cosmetology
Food Production & Management
Machine Tool Technology
Welding Technology

PROGRAMS OF STUDY

ENGINEERING PROGRAM REQUIREMENTS (Courses Taught at Waverly High School)

1. Completion of Algebra 1 to begin program and concurrent enrollment in a college level mathematics course for subsequent course
2. You must have a 93% overall average and/or principal or guidance counselor's recommendation.
3. Behavior will be strongly considered.
4. Interview required with principal and guidance counselor prior to enrollment in the program.

PRE-ENGINEERING AND ENGINEERING TECHNOLOGY

DESIGN DRAWING & PRODUCTION (DDP) (Introduction to Engineering Design)	1 Year	1 Credit	Grades 9-12
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Design Drawing & Production (DDP) is an introductory course, which develops student problem solving skills, with emphasis placed upon the concept of developing a 3-D model or solid rendering of an object. Students focus on the application of visualization processes and tools provided by modern, state-of-the-art computer hardware and software. The course will emphasize the design development process of a product and how a model of that product is produced, analyzed and evaluated, using a Computer Aided Design System.

By qualifying for and passing the college credit exam at the end of this course, the student is eligible to earn 4 transcribed undergraduate credits from Rochester Institute of Technology.

PRINCIPLES OF ENGINEERING (POE)	1 Year	1 Credit	Grade 10-12
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- Prerequisite: Introduction to Engineering Design.

Principles of Engineering (POE) is a broad-based survey course designed to help students understand the field of engineering and engineering technology and its career possibilities. Fundamental principles of engineering including dynamics and kinematics, machines, hydraulics, pneumatics, thermodynamics and strength of materials are discussed in preparation of the mechanical and civil engineering disciplines.

By qualifying for and passing the college credit exam at the end of this course, the student is eligible to earn 4 transcribed undergraduate credits from Rochester Institute of Technology.

DIGITAL ELECTRONICS (DE)	1 Year	1 Credit	Grade 10-12
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DE Digital Electronics (DE) is a course of study in applied digital logic. The course is patterned after the first semester course in Digital Electronics taught in two and four year colleges. Students will study the application of electronic logic circuits and devices and apply Boolean logic to the solution of problems. Such circuits are found in watches, calculators, video games, computers and thousands of other devices. The use of smart circuits is present in virtually all aspects of our lives and its use is increasing rapidly, making digital electronics an important course of study for a student exploring a career in engineering or engineering technology. By qualifying for and passing the college credit exam at the end of this course, the student is eligible to earn 4 transcribed undergraduate credits from Rochester Institute of Technology.

COMPUTER INTEGRATED MANUFACTURING (CIM)	1 Year	1 Credit	Grade 10-12
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Computer Integrated Manufacturing (CIM) builds upon the computer solid modeling design skills developed in Introduction to Engineering Design. Students will use Computer Numerical Control (CNC) equipment to produce actual models of their three dimensional designs. Fundamental concepts of robotics used in automated manufacturing and design analysis are also included.

By qualifying for and passing the college credit exam at the end of this course, the student is eligible to earn 4 transcribed undergraduate credits from Rochester Institute of Technology.

(Will be taught alternating years with CEA. **Will be offered 2018/2019 school year.**)

CIVIL ENGINEERING AND ARCHITECTURE (CEA)	1 Year	1 Credit	Grade 10-12
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- Prerequisite: Introduction to Engineering Design.

Civil Engineering and Architecture (CEA) is a high school level specialization course in the PLTW Engineering Program. In CEA students are introduced to important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3D architectural design software. Utilizing the activity-project-problem-based (APB) teaching and learning pedagogy, students will progress from completing structured activities to solving open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills.

By qualifying for and passing the college credit exam at the end of this course, the student is eligible to earn 4 transcribed undergraduate credits from Rochester Institute of Technology.

(Will be taught alternating years with CIM. **Will be offered 2017/2018 school year.**)

ENGINEERING DESIGN AND DEVELOPMENT (EDD)	1 Year	1 Credit	Grade 12
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- Prerequisites:
 - Introduction to Engineering Design
 - Principles of Engineering.

In Engineering Design and Development, students will work in teams of one to three to design and construct the solution to an engineering problem, (original idea, project need from a community or local business, or a national challenge) applying the principles developed in the four preceding courses. Students will maintain a journal as part of a portfolio of their work. Each team will be responsible for delivering progress reports and making final presentations of their project to an outside review panel, administrators and family. The completed portfolio will be invaluable as students apply to college.

LANGUAGE ARTS/ENGLISH

The following are the grade prerequisites for the selection of ENGLISH courses grades 9 - 12.

1. Honors courses 9 – 12:
Grade of 93% or English teacher's recommendation.
2. Advanced/College Prep courses 9 – 12:
Grade of 85% or English teacher's recommendation.

3. Students enrolled in a general English class may select an advanced/college prep or an honors course provided they have a 90% average and their English teacher's recommendation.

ENGLISH 9 H	1 Year	1 Credit	Grade 9
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English 9 H is designed for students who have demonstrated advanced reading and composition skills. It includes in-depth analysis of various genres of literature and composition activities to promote scholarly analysis of materials. This course includes activities for building a more mature vocabulary, and implements editing skills that focus on usage and mechanics to improve writing. Written communication as well as professional presentation is the focus of this class. Texts are used as a means to support analytical thought and critical-thinking is modeled and expected. A report card grade of a minimum of 93 in Advanced 8th Grade English or a 95 in Regular 8th Grade English is recommended, in addition to an English teacher's recommendation.

ENGLISH 9 CP	1 Year	1 Credit	Grade 9
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English 9 CP is designed for students who have demonstrated proficient reading and composition skills. Students are exposed to various genres of literature and composition activities and are taught to analyze material in a scholarly way. Students will engage in activities to promote critical thinking, build a more mature vocabulary, improve editing skills, and encourage professional, scholarly work. Written communication as well as professional presentation is the focus of this class. Texts are used as a means to support analytical thought and critical-thinking is modeled and expected.

ENGLISH 9 G	1 Year	1 Credit	Grade 9
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English 9 G is designed for students who have demonstrated basic reading and composition skills. This course exposes students to a variety of readings from many literature genres. Effective, professional communication is emphasized in oral and written assignments. This course strives to instill a sense of responsibility and a respectful appreciation for reading and writing, while helping students to become better readers and writers. Critical thinking strategies are modeled and encouraged.

ENGLISH 10 H	1 Year	1 Credit	Grade 10
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English 10 H is designed for students who have demonstrated advanced levels of proficiency in language-arts skills and who aim for academic challenge through intense language-arts study. Through a thematic exploration of literature, students will refine their critical thinking and critical reading skills as they are asked to make connections between and among various texts. This literature-heavy course will focus on the analysis and evaluation of literary elements and devices in addition to textual features and structure. Emphasis will be placed on inquiry-based learning methods used to help students construct meaning from texts. Written and oral communication will be emphasized through project-based learning opportunities and 21st Century research skills will be employed. Finally, students will assess the characteristics and functions of the English language through vocabulary-in-context learning.

ENGLISH 10 CP	1 Year	1 Credit	Grade 10
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English 10 CP is designed for students who have demonstrated proficient levels of language-arts skills and are seeking a challenging academic learning environment aimed at preparation for post-secondary

education. Through a thematic exploration of literature, students will further develop their critical thinking and critical reading skills as they are asked to make connections between and among various texts. As part of an intense study of literature, students will be required to use extended thinking strategies to better develop analytical skills as they focus on the role and function of literary elements and devices in addition to textual features and structures. Inquiry-based learning methods will be used to help students construct meaning from texts. Written and oral communication will be emphasized through project-based learning opportunities and 21st Century research skills will be employed. Finally, students will assess the characteristics and functions of the English language through vocabulary-in-context learning.

ENGLISH 10 G	1 Year	1 Credit	Grade 10
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English 10 G is designed for students who may or may not be seeking post-secondary education but who aim to receive supportive, grade-level instruction in the language-arts in order to enhance reading and writing skills. Through a thematic exploration of literature, students will further develop their critical thinking and critical reading skills as they are asked to make connections between and among various texts. As part of an intense study of literature, students will be required to use extended thinking strategies to work on analytical skills as they focus on the role and function of literary elements and devices in addition to textual features and structures. Inquiry-based learning methods will be used to help students construct meaning from texts. Written and oral communication will be emphasized through project-based learning opportunities and 21st Century research skills will be employed. Finally, students will come to understand the characteristics and functions of the English language through vocabulary-in-context learning.

ENGLISH 11 H	1 Year	1 Credit	Grade 11
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English 11 H is designed to challenge the student who has an interest in language and literature. By studying American Literature, students will explore different forms of reading materials including novels, short stories, plays and poetry. By analysis, students will search for the writer's message and express this literary interpretation through oral and written criticism. Students will be assigned formal writing assignments including a referenced research paper.

ENGLISH 11 CP	1 Year	1 Credit	Grade 11
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English 11 CP combines language, literature, and composition skills. Students practice and apply specific skills in reading, writing, speaking and listening. The course explores American Literature through the reading of novels, short stories, plays and poetry. Vocabulary studies are geared to the SAT. Students complete a referenced research paper.

ENGLISH 11 G	1 Year	1 Credit	Grade 11
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English 11 G emphasizes practical studies for those students who enter the working world upon graduation or who have had difficulty in advanced English. Extensive work is done to improve grammar, usage and mechanics. The student works to improve reading abilities through short stories and novels. Writing skills focus on compositions, and completing practical business forms, resumes and applications.

ENGLISH 12 AP/ACE	1 Year	1 Credit	Grade 12
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The work in English 12 AP/ACE, an advanced placement course, will be on the college level. Reading the works of world authors, probing for ideas and meanings, writing analyses and taking part in lively discussions will offer new experiences in English. Short stories, poetry, essays, novels and drama will be examined. Completion of two research papers is required. Students will be able to take the Advanced Placement Examinations for possible college credit upon completion of this course. Up to 6 credits can be earned from Corning Community College (CCC Course # ACE 1010 College Composition I and ACE 1020 College Composition II).

SENIOR ENGLISH

NOTE: In the following courses, all seniors must have a 70% or higher in both of their ½ credit courses. The two grades do NOT get averaged together.

ENGLISH 12 CP LITERATURE	½ Year	½ Credit	Grade 12
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English 12 CP Literature is an intense study of literature from a variety of historical contexts and genres is the foundation of this course, designed to prepare the student for college level work after graduation. Students will engage in a sophisticated study of advanced literary techniques and devices as well as consideration of various perspectives through literary criticism. In addition, students will extend their thinking by developing thesis-driven, evidence-supported writing for an array of audiences. An emphasis will be placed on scholarly, authentic, and research-based writing. This course alternates with College Prep Composition 12.

ENGLISH 12 CP COMPOSITION	½ Year	½ Credit	Grade 12
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English 12 CP Composition is an intense study of composition from a variety of historical contexts and genres is the foundation of this course, designed to prepare the student for college level work after graduation. Students will engage in a sophisticated study of advanced writing techniques and devices.. In addition, students will extend their thinking by developing thesis-driven, evidence-supported writing for an array of audiences. An emphasis will be placed on scholarly, authentic, and research-based writing. This course alternates with College Prep Literature 12.

ENGLISH 12 G LITERATURE	½ Year	½ Credit	Grade 12
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English 12 G Literature is a study of literature from a variety of historical contexts and genres is the foundation of this course, designed to prepare the student for life after graduation. Students will engage in a study of advanced writing techniques and devices between and among texts. In addition, students will extend their thinking by developing thesis-driven, evidence-supported writing for an array of audiences. An emphasis will be placed on scholarly, authentic, and research-based writing. This course alternates with General Composition 12.

ENGLISH 12 G COMPOSITION	½ Year	½ Credit	Grade 12
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English 12 G Composition is a study of composition from a variety of historical contexts and genres is the foundation of this course, designed to prepare the student for life after graduation. Students will engage in

a study of advanced writing techniques and devices between and among texts. In addition, students will extend their thinking by developing thesis-driven, evidence-supported writing for an array of audiences. An emphasis will be placed on scholarly, authentic, and research-based writing. This course alternates with General Literature 12.

MASS COMMUNICATIONS	1 Year	1 Credit	Grade 9-12
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- Prerequisites:
 - Instructor's approval
 - English teacher recommendation
 - An 80% average or higher in English.

This course is for the student with an interest in journalism, radio, public relations, and/or television. The class takes an in-depth look at the history and changing landscape of print journalism and the rise of social media. The class explores each of the forms of mass communication: internet, books, magazines, newspapers, radio, sound recordings, movies, and television. Students learn about the history of each medium and get practice with hands-on creation of each medium. The year concludes with students working in small groups to create one or more of the mediums for the school – a school newspaper, podcast, or news broadcast.

YEARBOOK	1 Year	1 Credit	Grade 9-12
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- Prerequisites:
 - Instructor's approval
 - English teacher's recommendation
 - An 86% average or higher in English.

Yearbook is an independent study course will produce the school's yearbook, *The Sayrenade*. This class will work independently on producing the yearbook by writing stories, taking photographs, and designing yearbook pages. Mini-lessons are taught throughout the year on various topics, such as: copy editing, Law (free speech and ethics), layout design, and photography. After successful completion of Yearbook 1 and the instructor's recommendation, students may continue their study by taking Yearbook 2 and 3. These students will be expected to take leadership positions in the class, such as editors and publicists.

SOCIAL STUDIES

AMERICAN HISTORY CP	1 Year	1 Credit	Grade 9
AMERICAN HISTORY G	1 Year	1 Credit	Grade 9

American History traces American social, political, economic and geographic development from the late 1800's through World War II. It emphasizes evolution of themes in response to continuously changing historical demands and conditions.

GLOBAL HISTORY & CULTURE I CP	1 Year	1 Credit	Grade 10
GLOBAL HISTORY & CULTURE I G	1 Year	1 Credit	Grade 10

Global History & Culture I will look at the development of western culture starting with the first recognized civilizations in the area of Mesopotamia. It will then follow the spread of civilization from the Persian Empire to Greece, Hellenistic Society, and then the Roman Empire. From the collapse of Rome the focus will be on the development of European history including the Byzantine Empire, Russia, the Middle Ages, Renaissance and decline of feudalism, the influence of the Ottoman Empire, Spain and Portugal's rise and exploration, and finally the ideas of absolutism, enlightenment, and the first global wars. The class will conclude with the state of European culture and politics at the eve of the French Revolution.

GLOBAL HISTORY & CULTURE II CP	1 Year	1 Credit	Grade 11
GLOBAL HISTORY & CULTURE II G	1 Year	1 Credit	Grade 11

Global History & Culture II is intended to give the student a global and interdisciplinary study of the geography, history and culture of regions throughout the world. Also, this course will stress on awareness of the world's traditions and current problems of mankind.

SENIOR SOCIAL STUDIES

NOTE: In the following courses, all seniors must have a 70% or higher in both of their ½ credit courses. The two grades do NOT get averaged together.

MODERN AMERICAN HISTORY CP *	1/2 Year	½ Credit	Grade 12
MODERN AMERICAN HISTORY G	1/2 Year	½ Credit	Grade 12

Modern American History is intended to give the student a comprehensive study of the people, places and events of the Modern American history era covering the time period from 1945 - present. The course will focus on foreign relations, culture and diversity as it relates to America becoming a world power.

ECONOMICS CP *	1/2 Year	½ Credit	Grade 12
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Economics will examine how individual decision makers, both consumers and producers, and their behaviors affect the larger economic system. Scarcity of resources, the supply and demand for goods and services, and the role of the government in the market will be the primary emphasis. This course will give you, the individual consumer, the opportunity to learn about how economic factors affect consumer transactions, business transactions, and the everyday lives of American citizens.

SOCIAL STUDIES 12 G	1/2 Year	½ Credit	Grade 12
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This course provides students with the opportunity to examine the history, geography, government, and economy of the United States from WWII until the present. This time period will be analyzed with an

emphasis placed on the significant developments and trends that will affect society today and in to the future

PSYCHOLOGY	1 Year	1 Credit	Grades 11-12
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Psychology is an introduction to psychology. It includes scientific method, measurement in psychology, motivation, learning, thinking and problem solving, perception, behavior disorders and varieties of treatment, biological basis of behavior, social determinants of behavior, human development and personality.

MATHEMATICS

PRE-ALGEBRA	1 Year	1 Credit	Grade 8
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Pre-Algebra will give you a strong foundation in algebra while also preparing you for future study of geometry, probability, and data analysis. The clearly written lessons make even difficult math concepts and methods understandable by providing numerous stepped-out examples. Each lesson's exercise set includes a wide variety of exercises, ranging from basic exercises that involve logical reasoning and problem solving.

This course will also help you become better at taking notes and taking tests. Look for a note taking strategy at the beginning of each chapter as well as helpful marginal notes throughout each chapter. The marginal notes give you support in keeping a notebook, studying math, reading algebra and geometry, doing homework, using technology, and reviewing for tests. Also look for instruction and practice that prepare you for taking standardized tests with questions in multiple choice, short response, and extended response formats.

- Graphing calculators are useful, but not required, for successful completion.
- Completion of daily assignments is required for successful completion.
- Curriculum reflects PA Core Standards.

ALGEBRA 1	1 Year	1 Credit	Grades 8-12
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Algebra 1 is organized around families of functions, with special emphasis on linear and quadratic functions. As you study each family of functions, you will learn to represent them in multiple ways – as verbal descriptions, equations, tables, and graphs. You will also learn to model real-world situations using functions in order to solve problems arising from those situations.

In addition to algebra content, Algebra 1 includes lessons on probability and data analysis as well as numerous examples and exercises involving geometry. These math topics often appear on standardized tests (like the Keystone Exam), so maintaining your familiarity with them is important. To help you prepare for standardized tests, Algebra 1 provides instruction and practice on standardized test questions in a variety of formats – multiple choice, short response, extended response, and so on. Technology support for both learning algebra and preparing for standardized tests is also available throughout the course at classzone.com.

- Passing Pre-Algebra.
- Graphing calculators are useful, but not required, for successful completion.
- Completion of daily assignments is required for successful completion.
- Curriculum reflects PA Core Standards and Keystone Exam expectations.

GEOMETRY

1 Year

1 Credit

Grades 9-12

In Geometry, you will be develop reasoning and problem-solving skills as you study topics such as congruence and similarity, and apply properties of lines, triangles, quadrilaterals, and circles. You will also develop problem-solving skills by using length, perimeter, area, circumference, surface area, and volume to solve real-world problems.

In addition to geometry content, Geometry includes numerous examples involving algebra, data analysis, and probability. These math topics often appear on standardized tests (like the Keystone Exam), so maintaining your familiarity with them is important. To help you prepare for standardized tests, Geometry provides instruction and practice on standardized test questions in a variety of formats – multiple choice, short response, extended response, and so on. Technology support for both learning algebra and preparing for standardized tests is also available throughout the course at classzone.com.

- Passing Algebra 1.
- Graphing calculators are useful, but not required, for successful completion.
- Completion of daily assignments is required for successful completion.
- Curriculum reflects PA Core Standards.

ALGEBRA 2

1 Year

1 Credit

Grades 9-12

Algebra 2 is organized around families of functions, including linear, quadratic, exponential, logarithmic, and rational functions. As you study each family of functions, you will learn to represent them in multiple ways – as verbal descriptions, equations, tables, graphs, and matrices. You will also learn to model real-world situations using functions in order to solve problems arising from those situations.

In addition to algebra content, Algebra 2 includes lessons on data analysis. These math topics often appear on standardized tests (like the Keystone Exam), so maintaining your familiarity with them is important. To help you prepare for standardized tests, Algebra 2 provides instruction and practice on standardized test questions in a variety of formats – multiple choice, short response, extended response, and so on. Technology support for both learning algebra and preparing for standardized tests is also available throughout the course at classzone.com. All students will be required to learn math vocabulary.

- Passing Algebra 1.
- Graphing calculators are useful, but not required, for successful completion.
- Completion of daily assignments is required for successful completion.
- Curriculum reflects PA Core Standards.

PRE-CALCULUS CP

1 Year

1 Credit

Grades 11-12

Pre-Calculus CP is a thorough and comprehensive treatment of pre-calculus mathematics. Topics from algebra, geometry, trigonometry, discrete math, probability, and statistics are interwoven to form a fully integrated fourth course of high school mathematics.

Topics explored include trigonometric equations, trigonometric graphs, trigonometric functions, trigonometric identities, logarithmic functions, exponential functions, quadratic functions, translations of functions, conic sections, combinations and permutations, the binomial theorem, systems of equations and inequalities, data analysis, probability, arithmetic and geometric means, sequences and series, and the rational root theorem. Word problems will be developed through the problem sets. All students will be required to learn math vocabulary.

- Passing Algebra 2.
- TI-83/TI-84 graphing calculator is mandatory for successful completion.
- Fast paced and very challenging.
- For students intending on post-secondary education.
- Designed to prepare you for Calculus.
- Completion of assignments is required for successful completion.

- Curriculum reflects PA Core Standards.

STATISTICS H/ACE	1 Year	1 Credit	Grades 11-12
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Statistics CP/ACE is for 11/12th grade students. Seniors may take Statistics concurrently with H/ACE Calculus. The course will stress the development of statistical thinking skills. Students will be introduced to the world of statistics and will later be required to compile data for analysis. This is an introductory course designed to provide basic statistical techniques to all students leaving high school. All students will be required to learn math vocabulary and mathematical terminology specific to the course. This course will also involve specific topics such as one-variable and two-variable analysis, regression, association, correlation, boxplots, stem plots, variance, standard deviation, normal distributions, binomial distributions, chi-square distributions

- Algebra 2 with an average of 85% or higher.
- TI-83/TI-84 graphing calculator is mandatory for successful completion.
- Completion of daily assignments is required for successful completion.
- For students intending on post-secondary education.
- Expect college-level content, critical thinking and work load.
- Curriculum reflects Corning Community College's requirements for MA 1310.
- Successful completion could earn four (4) college credits.

CALCULUS H/ACE	1 Year	1 Credit	Grade 12
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Calculus H/ACE is taught through Corning Community College as an ACE course (CCC Course MA1610); students can earn 4 credits through the college. Topics explored include, but are not limited to, various pre-calculus review topics, limits, derivatives, integrals, techniques of differentiation, techniques of integration, applications of differentiation, and applications of integration. Labs using various computer programs/applications are required.

- Passing score on Pre-Calculus CP final exam.
- TI-83/TI-84 graphing calculator is mandatory for successful completion.
- Completion of assignments is required for successful completion.
- For students intending on post-secondary education.
- Expect college-level content, critical thinking and work load.
- Curriculum reflects Corning Community College's requirements for MA 1610.
- Successful completion could earn four (4) college credits.

MATH FOR PERSONAL FINANCE	1 Year	1 Credit	Grades 11-12
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Math for Personal Finance is a premier course for teaching students financial literacy. Topics are presented in an easy-to-understand manner. There are three assessments: an open book test per chapter, open-book test per unit, and an open-book comprehensive final exam. The course uses over 50 case studies and activities that employ the very latest in research based learning strategies.

- Unit 1: Savings, Understanding Investments, Wealth Building, and College Planning
- Unit 2: Dangers of Debt, Consumer Awareness, Credit Bureaus, and Collection Practices
- Unit 3: Budgeting 101, Bargain Shopping, and Relating with Money
- Unit 4: Careers, Employment Taxes, In and Outs of Insurance, Real Estate, and Mortgages

PREREQUISITES:

- Desire to understand how to win with money through smart choices.
- Ability to think critically and reason numerically.
- Must pass Algebra 1 and Geometry as two of the three required math credits.

SCIENCE

SCIENCE 9 CP	1 Year	1 Credit	Grade 9
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- Prerequisite: grade of 85% or above in Science 8
- Suggested: Algebra I or Algebra I concurrent

All science courses meet the Pennsylvania Science Standards. Students will need to complete class work, homework, laboratory activities, quizzes, tests/exams, and special projects as assigned by their teacher. Notebooks are required in most classes.

Science 9 CP offers an introduction to scientific laws and principles and their applications. Areas of study will include topics in the fields of ecology and physics. Special concentration is given to the integration of these fields of study. Units will include forces and motion, forms of energy (light, sound, etc.), pollution (air, water, land) and agricultural topics.

SCIENCE 9 G	1 Year	1 Credit	Grade 9
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All science courses meet the Pennsylvania Science Standards. Students will need to complete class work, homework, laboratory activities, quizzes, tests/exams, and special projects as assigned by their teacher. Notebooks are required in most classes.

Science 9 G is designed to make students aware of basic scientific laws and principles and how these play a role in our daily life. Areas of study will include topics in the fields of ecology and physics. Special concentration is given to the integration of these fields of study. Units will include forces and motion, forms of energy (light, sound, etc.), pollution (air, water, land) and agricultural topics.

BIOLOGY G	1 Year	1 ½ Credits	Grade 10
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Biology G is designed to provide a foundation for understanding the fundamental characteristics and functions of living things. Biology is a tested subject for the PA Keystone Exams. Areas of study include: ecology, chemistry, the cell, genetics, evolution, and classification. Students taking this course have class every day and an additional lab period every other day. Participation in lab is required.

BIOLOGY CP	1 Year	1 ½ Credits	Grade 10
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- Recommended: 85% or higher in Science 9 CP **OR** 93% or higher in Science 8 CP.
- Participation in lab is required.

Biology CP is designed to provide an in-depth foundation for understanding the fundamental characteristics and functions of living things. Biology is a tested subject for the PA Keystone Exams. Areas of study include: ecology, chemistry, cellular biology, cellular respiration, cellular reproduction, genetics, evolution, and classification. Students taking this course have class every day and an additional lab period every other day. Participation in lab is required. This course is content heavy and fast paced.

BIOLOGY 2H	1 Year	1-1/2 Credits	Grades 11-12
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- Prerequisite: Biology CP or recommendation by instructor.
- Prerequisite: Grade of 88% or higher in Biology 10.
- Participation in lab is required.
- Good lab techniques and study skills are required.

This course provides in depth coverage of topics covered in Biology 10. Topics include: biochemistry, cell, cellular respiration, photosynthesis, cellular reproduction, genetics, gene expression and biotechnology, evolution, classification review, and an introductory study of anatomy and physiology.

This is a fast paced, content heavy course. Students planning on furthering their education in medical or biologically related fields are encouraged to enroll in this course.

CHEMISTRY G	1 Year	1 Credit	Grades 11-12
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Chemistry G gives students hands-on experience in concepts of Chemistry. Areas of study include natural resources, food and pollution.

CHEMISTRY CP	1 Year	1 ½ Credits	Grade 11
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- Student will have an overall average of at least an 85% in Biology CP or 90% in Biology G.
- Prerequisite: Successful completion of Algebra 1 or Algebra 2 concurrent.
- Lab periods are required.

Chemistry CP introduces the student to the basic concepts of atomic theory and bonding. Stoichiometric relationships are utilized throughout the course. Emphasis is placed on understanding basics such as chemical symbols, formulas, chemical reactions, periodic table, gas laws, acids and bases.

CHEMISTRY 2 H/ACE	1 Year	1 ½ Credits	Grade 12
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- Prerequisites:
 - Grade of 85% or above in Chemistry College Prep.
 - Algebra 2 or higher.
- Students must purchase Lab Manual and approved Textbook (\$150.00 estimated cost).

Chemistry 2 H/ACE is an extension of Chemistry 1 CP, with topics in the following units: thermochemistry, quantum theory, electron configurations, periodic trends, and bonding. The following units will be newly introduced: molecular geometry, colligative properties, kinetics, acid/base, oxidation reduction, electrochemistry, and equilibrium.

The course follows the curriculum approved by Corning Community College as an ACE course (CCC Course # CHEM 1510 General Chemistry I and Course # CHEM 1520 General Chemistry II) and a lab manual and course approved textbook are required and must be purchased by the students at an estimated cost of \$150.00. In addition, students taking the course can receive 8 credits through the college.

PHYSICS H	1 Year	1 Credit	Grades 11-12
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- Prerequisites:
 - Algebra 2 with an average of 85% or higher, Pre-Calculus completion would be advantageous but not necessary
 - Recommendation of last math teacher
- Completion of homework and lab assignments is required

Physics is the study of the physical world, from motion and energy to light and electricity. The Holt Physics textbook is used as a resource and guide to provide students with a conceptual foundation and a mathematical presentation of physics. The course is taught at an introductory level which allows students to grasp the basic ideas and concepts of motion, force, Newton's laws, work and energy, momentum and collisions, circular motion and gravitation, fluid mechanics, heat, thermodynamics, vibrations and waves, sound and light with the opportunity to study more topics. There is a focus on problem solving in physics with some hands on experiences as well.

SCIENCE TODAY G	1 Year	1 Credit	Grade 12
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Science Today G is designed to explore key themes of current science interest. The integrated science course will apply the scientific principles to everyday life. It will explore science-related questions and technologies that will affect the social, political, and economic aspects of your life now and in the future.

BIOLOGY OF ORGANISMS – CLASSIFICATION OF LIVING THINGS	1 Year	1 Credit	Grades 10-12
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- Prerequisites:
 - Biology with an average of 80%.
 - Good work ethic and good lab safety skills.
 - Students will be conducting a variety of organism dissections and must be willing to dissect.

This course provides an introduction to the classification, evolutionary relationships, structure, and function of Viruses and the 6 Kingdoms of Life: Bacteria, Archaeobacteria, Protists, Fungi, Plants, and Animals. The class will consist of a lecture component, as well as a lab component, to reinforce topics discussed in class. Lab activities include microscopic and macroscopic observations, as well as various dissections.

FOREIGN LANGUAGE

FRENCH 1	1 Year	1 Credit	Grades 9-12
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French 1 attempts from the outset to bring the student to an acceptable understanding of the spoken word, to speak with grammatical accuracy, and to begin to understand and appreciate cultural differences in our societies.

FRENCH 2	1 Year	1 Credit	Grades 9-12
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French 2, introduced in Grade 10, although placing stress on the audio lingual skills of foreign language learning, lends more emphasis to reading and writing, and continues to blend essential cultural knowledge into the program.

FRENCH 3 CP	1 Year	1 Credit	Grades 10-12
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Students, without exception, must have achieved a final average of 85% or higher in French 2 **AND** teacher recommendation or administrative approval to go on to French 3 CP.

French 3 continues with the audio-lingual approach, making heavier demands on the skills of reading and writing. At this level, all four language skills (listening comprehension, speaking, reading and writing) are challenged by the more advanced concepts of the French language. Cultural materials continue to be an integral part of the program.

FRENCH 4 CP	1 Year	1 Credit	Grades 11-12
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Students, without exception, must have achieved a final grade of 85% or higher in French 3 to go on to French 4 CP **AND** teacher recommendation or administrative approval.

At this level the reading and writing are, by necessity, much more sophisticated and demanding. The student will be able to understand and speak with more grammatical accuracy and with very good pronunciation. He/she will be able to write ideas they would like to express, utilizing concepts which have been taught during the course of his/her foreign language training.

SPANISH 1	1 Year	1 Credit	Grades 9-12
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Spanish 1 attempts from the outset to bring the student to an acceptable understanding of the spoken word, to speak with grammatical accuracy and with good pronunciation, to write with grammatical accuracy, and to begin to understand and appreciate cultural differences in our societies.

SPANISH 2	1 Year	1 Credit	Grades9-12
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Spanish 2 introduced in Grade 10, although essentially placing stress on the audio lingual skills of foreign language learning, lends more emphasis to reading and writing, and continues to blend essential cultural knowledge into the program.

SPANISH 3 CP	1 Year	1 Credit	Grades 10-12
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Students, without exception, must have achieved a final average of 85% or higher in Spanish 2 to go on to Spanish 3 CP.

Spanish 3 continues with the audio-lingual approach, making heavier demands on the skills of reading and writing. At this level, all of the four language skills (listening comprehension, speaking, reading, and writing) are challenged by the more advanced concepts of the Spanish language. Cultural materials continue to be an integral part of the program.

SPANISH 4 CP	1 Year	1 Credit	Grades 11-12
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Students, without exception, must have achieved a final average of 85% or higher in Spanish 3 to go on to Spanish 4 CP.

At this level the reading and writing are, by necessity, much more sophisticated and demanding. The student will be able to understand and speak with more grammatical accuracy and with good pronunciation. He/she will be able to write ideas they would like to express, utilizing concepts which have been taught during the course of his/her foreign language training.

ITALIAN 1	1 Year	1 Credit	Grades 10-12
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Italian 1 attempts from the outset to bring the student to an acceptable understanding of the spoken word, to speak with grammatical accuracy, and to begin to understand and appreciate cultural differences in our societies.

ITALIAN 2	1 Year	1 Credit	Grades 11-12
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Italian 2, introduced in Grade 9 or 10, although placing stress on the audio lingual skills of foreign language learning, lends more emphasis to reading and writing, and continues to blend essential cultural knowledge into the program.

STUDENT ENHANCEMENT

21 ST CENTURY SKILLS COURSE	½ Year	¼ Credit	Grade 10
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21st Century Skills Course is designed to present students with practical, real-world learning opportunities and develop skills that will help them be competitive in the 21st century world. Written communication will center on developing, editing, and publishing informational genres through authentic, career-focused tasks such as resume creation. College/career readiness will be central topics of study and exploration. Students will use, access and manage appropriate technology and non-fiction media while engaging and practicing responsible digital citizenship.

BUSINESS

MS OFFICE	1 Year	½ Credit	Grade 9
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MS Office is designed to teach students advanced word processing, database management, graphics presentation and spreadsheet development. This is a one-half credit course required for graduation.

LAW FOR BUSINESS AND PERSONAL USE	1 Year	1 Credit	Grade 10-12
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Explore the foundations of business law, while introducing personal law topics that interest students. Law for Business and Personal Use combines strong content with interactive technology and video to maintain student interest and support active learning. Coverage includes contracts, criminal law, consumer protection, wills and estates, marriage and divorce, property law, agency, employment contracts, unions, commercial paper, and credit obligations. Each chapter is divided into short, easy-to-handle lessons, setting a comfortable learning pace. With more than 1,000 cases, there's never a shortage of opportunities for case analysis and research.

ACCOUNTING I	1 Year	1 Credit	Grade 10-12
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- This course is highly recommended for anyone planning a career in a business-related field.

Accounting 1 is a well-balanced course that gives attention to the practical and realistic principles that apply outside the classroom be it vocational, personal or as preparation for study in the accounting/business field beyond the high school level. Topics covered include accepted accounting principles for a sole proprietorship, partnership and a corporation. Also included will be Business Ethics, and careers in Accounting. The use of spreadsheets using Excel as a tool for solving and analyzing Accounting problems will also be utilized.

COMPUTER APPLICATIONS CP/ACE	1 Year	1 Credit	Grade 11-12
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- Approval from Mrs. Cole is required.

This course may be taken for 4 ACE credits through Corning Community College (CCC Course # CSIT 1390 – Computer Literacy and Microcomputer Applications) and is designed for the college bound student. This advanced course covers the entire Microsoft Office 2007 suite. This includes the advanced features of Word, Excel, Access, and Power Point. Students will also learn about networking basics, file management, digital media, and Information Systems Analysis & Design.

FYEX 1000 CP/ACE – First Year Experience	1 Year	1 Credit	Grade 11-12
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- Approval from Mrs. Cole is required.

FYEX 1000 CP/ACE – First Year experience facilitates intellectual and social integration of first-year students into the academic community. The course provides specific methods and strategies which students may adopt to promote personal growth and success both in the college environment and throughout life.

This course may be taken for 3 ACE credits through Corning Community College (CCC Course # FYEX 1000 – First Year Experience).

INTRODUCTION TO BUSINESS	1 Year	1 Credit	Grade 9-10
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Introduction is designed for 9th and 10th graders who would like to know more about the world of business. Topics include: Planning a Career, Banking, Stocks and Bonds, Insurance, Managing a Small Business and Computers in Business. In addition, computer simulations will be used to reinforce concepts. A must for anyone thinking about a career in business!

ART

Drawing & Composition	1 Year	1 Credit	Grades 9-12
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For academic success in the field of art, the student must achieve a passing grade based on the average of their project grades, reflective writing, sketchbook assignments, and classroom effort.

This course includes the exploration of big ideas and advanced problems through visual art concepts and media in several different areas to be used at the student's discretion in a studio setting. These areas include creative design, compositional elements, drawing, lettering, figure study, cartooning, painting, collage, sculpture, illustration, and an opportunity for exploration. **This class is recommended to be the first studio art class of the art course of study**, but it is not required. Upon successful completion of this course, students will be well-prepared to select any avenue of art studio available within the art curriculum. A student sketchbook based on creativity and skill exploration is required. Students will also study art principles, research historical and contemporary art, and maintain a digital portfolio to showcase their work.

Ceramics & Sculpture	1 Year	1 Credit	Suggested Grades 10-12
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- Available to 9th grade students if not able to schedule Drawing & Composition.

Ceramics & Sculpture is designed for all students with a desire to gain knowledge or to improve their skills in three-dimensional art. The course includes a guided experience in ceramics and sculpture which includes directed lessons in all major techniques and concepts involved with the media such as clay hand-building, coil and slab construction, plaster construction, assemblage, cardboard construction, clay wheel throwing, and an opportunity to design and create work based on skills developed. Students are also required to complete planning sketches, complete reflective writings, define relevant vocabulary, and maintain a digital portfolio of their work.

Digital Design	1 Year	1 Credit	Suggested Grades 10-12
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- Available to 9th grade students if not able to schedule Drawing & Composition.

The course of study involved with this studio option is centered around the techniques and creative vision needed to create computer-based art: using software available, working with layers, importing images, manipulating images, creating interactive animations, and building flash movies. Approximately the first half of the year involves a focus on Adobe Photoshop CC editing and painting techniques, and the second half covers digital movies and animations with Adobe Animate CC. Students are also required to engage in reflective writing and maintain a digital portfolio of their work.

- * Emphasis will be placed on design and understanding of processes used to make images that can be used in pragmatic and artistic applications (i.e. photo manipulation, working with clients, poster/logo design, and narrative development/storytelling).

Digital Photography	1 Year	1 Credit	Suggested Grades 10-12
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- Available to 9th grade students if not able to schedule Drawing & Composition.

- Students who sign up for this course should have access to a digital or smartphone camera for use during school and at home.

Digital Photography is a course designed for all students with a desire to gain knowledge or to improve their skills in digital photo composition and editing. This course explores the historical, technical, conceptual, and additional artistic aspects of the medium. Students will be required to keep a digital photo journal of personal and research-based work as well as build an online digital portfolio to showcase their work and growth as reflective artists. While immersed in the Digital Photography curriculum, students will study topics including but not limited to introductory principles, digital editing, place, portraiture, photojournalism, humor, and storytelling. Once students achieve mastery of key skills and concepts, they will have the opportunity to pursue an independent artistic vision through the medium of photography.

Painting	1 Year	1 Credit	Grades 10-12
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- Recommended Prerequisite – The successful completion of at least ONE art course: Drawing & Composition, Ceramics & Sculpture, Digital Design, or Digital Photography

Painting is designed for all students with a desire to gain knowledge or to improve their skills in painting. The course includes a guided experience with directed lessons in the three main areas of painting: watercolor, acrylic, and oil painting. Students will have the opportunity for individual experimentation and conceptual exploration with a foundation in big ideas. Emphasis is placed on intent as well as an understanding of the various approaches and techniques rather than the resulting product. The goal is for students to understand the process of painting and develop their own workflow. Creative sketches, draft paintings, vocabulary worksheets, reflective writings, and self-evaluations are also required in this course for creative development and artistic enrichment. In addition, students will maintain a digital portfolio in order to showcase their work.

Studio Art	1 Year	1 Credit	Grade 12
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- Recommended: Successful completion of at least TWO art courses from the following list: Drawing & Composition, Painting, Ceramics & Sculpture, Digital Photography, and Digital Design. Teacher recommendation is also required.

Studio Art is a course for highly-motivated Senior students interested in the serious study of art. Every student will be expected to develop a quality digital and physical portfolio as well as exhibit work in the summative annual art show. Projects are developed through research, idea development, production, and presentation stages. All work must be of an advanced art student quality to be accepted. Students work in an independent study studio environment with two graded, finished projects due per marking period. Projects are required to be presentation-ready (matted, framed, or mounted) to be considered complete at this level. Creative development, proposal forms, monthly visual journals, and self-evaluations are required each marking period for artistic enrichment.

MUSIC

CONCERT BAND	1 Year	½ or 1 Credit	Grade 9-12
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Instrumental Music is designed for students in grades 9-12 able to play a musical instrument. Emphasis is on ensemble performance and individual improvement and facility on a musical instrument. This course also develops aesthetic sensitivity, basic musicianship, and an appreciation of various musical styles. Students will perform in the concert band and have the option to join the marching band, jazz ensemble,

and/or chamber ensembles. Students will complete written and played assessments related to the concert band literature. Literature will be chosen from a range of styles, historical periods, and cultures. Three public performances are mandatory (winter and spring concerts and the HS graduation ceremony). Students are required to attend one group/private lesson each week and held accountable for the condition of all music, instruments, and equipment. Previous instrumental experience required or permission of director.

CONCERT CHOIR	1 Year	½ or 1 Credit	Grades 9-12
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Concert Chior is designed for students who enjoy singing and are interested in improving musicianship and vocal technique. Emphasis is on both ensemble and individual growth. Students are introduced to various styles of music, from various musical periods and sing both English and foreign language literature. Proper vocal technique and overall musicianship are emphasized through the study of music literature. Grading is based upon rehearsal attendance, rehearsal behavior and contribution, mandatory public performances, group lesson attendance and some written work. Students are required to own professional black and white garments as attire for all performances, unless noted.

MUSIC TECHNOLOGY/STAGE CREW CLASS	1 Year	1 Credit	Grades 9-12
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Music technology and stage crew class will encompass many different aspects of music technology as it applies to sound production, lighting, and stage crew. Some of the highlights of the class will include learning how to use the auditorium’s sound equipment, lighting system, set construction, lighting design, and sound mixing/recordings. Students will be able to successfully run the sound and lighting technology for concerts, lectures, and stage productions, as well as contribute to set design and construction for stage productions.

FAMILY & CONSUMER SCIENCE

FAMILY & CONSUMER SCIENCE 1	1 Year	1 Credit	Grades 9-12
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The curriculum in Family and Consumer Science I will include the following topics: Food Science and Nutrition, Child Development - focusing on readiness through 1 year old, balancing family, work and community responsibilities and Financial and Resource Management. One marking period will be spent on each area.

FAMILY & CONSUMER SCIENCE 2	1 Year	1 Credit	Grades 10-12
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- Prerequisite: Family & Consumer Science 1.

Family & Consumer Science 2 is a full year course that will build on information learned in Family and Consumer Science I. The topics covered will be Advanced Food Science and Nutrition – taking a closer look at meal planning principles, food processing and diets to improve health conditions. The Child Development unit will focus on new research in understanding children and parenting, how to successfully meet the needs of children and community resources that impact child development, Financial and Resource management and strengthening family relationships.

FOOD SERVICE	1 Year	1 Credit	Grades 11-12
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- Prerequisite: Family & Consumer Science 2 AND Teacher Recommendation.

Food Service is a full year course designed for students interested in a career in the Food Service industry. Teamwork, creativity and exploration with food are essential to be successful in this class.

SINGLE LIVING	1 Year	1 Credit	Grades 11-12
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Single Living is designed to assist students with completing their Senior project AND in making the transition to independent living. The topics covered will be budgeting, savings and checking accounts, renting an apartment, buying a car, types of insurance, career search, resumes, job/college applications

The second semester will consist of Food Science and Nutrition, focusing on preparing healthy meals, practical meal planning, comparison shopping and fitness.

INDUSTRIAL ARTS TECHNOLOGY

WOOD TECHNOLOGY 1	1 Year	1 Credit	Grades 9-12
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- **Daily Requirements:** a writing utensil and a folder to file handouts.
- Cooperation and participation.

Wood Shop 1 full year (2 semesters) This course is designed to introduce students to elementary cabinet construction and the use of power and woodworking equipment. Emphasis will be on design, planning, construction, and work performance. Students will build a group project and select at least one individual project. This course will be useful to any student interested in increasing his/her whole life skills and their background regarding the use of woodworking technology.

WOOD TECHNOLOGY 2/3	1 Year	1 Credit	Grades 10-12
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- Prerequisite: Passing Wood Shop 1 and Shop Teacher written permission or Administrative Approval.
- **Daily Requirements:** a writing utensil and a folder to file handouts.
- Cooperation and participation.

Wood Shop 2/3 full year (2 semesters) This course is designed for students who are interested in gaining more experience in the use of woodworking equipment and cabinet construction. The purpose of this course is to direct students towards the completion of more complex wood projects. Students are encouraged to use advanced joinery and craftsmanship during the fabrication and assembly of their group manufacturing project. A weekly participation grade will be given.

The Woodworking III section of this course encourages further development of skills and abilities to solve woodworking problems. Students at this level will be allowed independent study and pursuit of special interests in woodworking. A weekly participation grade will be given.

COMPUTER AIDED DRAFTING (CAD)	1 Year	1 Credit	Grades 9-12
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- **Daily Requirements:** a writing utensil and a folder to file handouts.
- Cooperation and participation.

Computer Aided Drawing full year (2 semesters) This course will provide an introduction to the use of AutoCAD software for Computer Aided Drafting. Projects will include the completion of several Orthographic Projection (3 view) and several Isometric Drawings (3D) in two-dimensional form, plus application of dimensioning techniques, and an introduction to AutoCAD's three-dimensional capabilities. Included in this course will be a study of the proper use of the Windows based workstation and network components as related to CAD. Students will be assessed through evaluation of computer skills, software knowledge and application, individual drawings and tests.

BASIC ELECTRICITY AND ELECTRONICS	1 Year	1 Credit	Grades 9-12
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- **Daily Requirements:** a writing utensil and a folder to file handouts.
- Cooperation and participation.

Basic Electricity and Electronics full year (2 semesters) This course is for students interested in working with electricity (A.C./D.C.). There are weekly quizzes on materials used in this course. There are mandatory projects that must be completed throughout the course of the school year. The first 2 semesters will cover household residential wiring (Alternating Current). Topics covered will be: lights, switches, circuits, and different wiring techniques. The third quarter of the school year will be an exploration into electronics (Direct Current). Students will use solderless circuit boards and electronic components to create many different reusable projects to experiment with electronics. The 4th quarter of the school year, students will learn how to solder and troubleshoot electronic problems. Students will be required to buy small electronic kits to build and keep.

PHYSICAL EDUCATION

PHYSICAL EDUCATION 9-12	1 Year	½ Credit	Grades 9-12
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Physical Education course offers encouragement for further development of advanced skills, greater participation in competitive team situations, and emphasis on the enjoyment and skill development of the lifetime individual sports. Swimming, water polo and boating are incorporated into physical education. Students learn to develop basic skills that will lead to a greater interest in aquatic activities in and outside of school. Student grades are based on participation, effort, written assignments and/or written test.

HEALTH

HEALTH 11	1 Year	½ Credit	Grades 11
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The purpose of this class is to further educate students in areas of Health. The class deals with topics that are critical in the life decisions of our future adults. Topics include function of body systems, dealing with mental illness, suicide, fitness/nutrition, tobacco, alcohol, drugs, human development, STD's, among others. Students demonstrate learning and knowledge in multiple intelligence projects, peer tutoring, health assessments, and current event essays.

FITNESS FOR LIFE

FITNESS FOR LIFE

1 Year

½ Credit

Grades 9-12

- Prerequisite: Phys Ed Teacher recommendation required to take this course.

Fitness for Life introduces students to the many different aspects of fitness including nutrition, goal setting, weightlifting, research and fitness testing. A portfolio is required for this course as well as a daily fitness component.

DRIVER EDUCATION

DRIVER EDUCATION

½ Year

¼ Credit

Grade 10

- Required for behind the wheel phase

The classroom phase of Driver Education is a 30-hour course, introducing students to the legal, safety and natural limitations of today's cars and driving situations. The car phase is a systematically applied program of practice driving 6 hours and reinforces classroom work. The car phase must be scheduled through the Driver Education Instructor. Completion of both courses results in reduced insurance rates and a senior license at the age of 17-1/2.

ALGEBRA 1 ACCELERATION:

This course is required by the PA Department of Education and designed to help non-proficient students achieve proficiency on the Keystone Exam. Course content will immerse the student in the subject and include numerous benchmark assessments to target areas with the content where the student is strong as well as deficit areas. The course will be based on the SAS course specific modules and will have numerous assessment opportunities and resources to assess student strengths and weaknesses. Frequent incorporation of Collins Writing strategies will help students with open-ended and constructed response items on their next Keystone Exam. Lessons will be in small groups to allow tailored instruction while other students practice concepts or explain content to help expand their mastery of course material. Student selection for the course will be based on student performance on the Keystone Exam. The course roster may change over the course of the school year as other at risk students are identified as being in need of acceleration.

BIOLOGY ACCELERATION:

This course is required by the PA Department of Education and designed to help non-proficient students achieve proficiency on the Keystone Exam. Course content will immerse the student in the subject and include numerous benchmark assessments to target areas with the content where the student is strong as well as deficit areas. The course will be based on the SAS course specific modules and will have numerous assessment opportunities and resources to assess student strengths and weaknesses. Frequent incorporation of Collins Writing strategies will help students with open-ended and constructed response items on their next Keystone Exam. Lessons will be in small groups to allow tailored instruction while other students practice concepts or explain content to help expand their mastery of course material. Student selection for the course will be based on student performance on the Keystone Exam. The course roster may change over the course of the school year as other at risk students are identified as being in need of acceleration.

LITERATURE ACCELERATION:

This course is required by the PA Department of Education and designed to help non-proficient students achieve proficiency on the Keystone Exam. Course content will immerse the student in the subject and include numerous benchmark assessments to target areas with the content where the student is strong as well as deficit areas. The course will be based on the SAS course specific modules and will have numerous assessment opportunities and resources to assess student strengths and weaknesses. Frequent incorporation of Collins Writing strategies will help students with open-ended and constructed response items on their next Keystone Exam. Lessons will be in small groups to allow tailored instruction while other students practice concepts or explain content to help expand their mastery of course material. Student selection for the course will be based on student performance on the Keystone Exam. The course roster may change over the course of the school year as other at risk students are identified as being in need of acceleration.

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NORTHERN TIER CAREER CENTER

VOCATIONAL-TECHNICAL COURSES

**STUDENTS MUST BE PASSING AND ON TRACK FOR GRADUATION IN ORDER
TO BE ELIGIBLE TO ATTEND THE NORTHERN TIER CAREER CENTER.**

The Students Occupationally & Academically Ready (**SOAR**) Program is a Pennsylvania Department of Education approved, Career & Technical Education Program of Study that credits skills and tasks learned at the secondary school (high school) level to a postsecondary (college) degree, diploma or certification program. SOAR programs prepare today's student for High Priority Occupations which are tomorrow's high demand and high wage careers. For more information about specific SOAR Programs, use this link:

http://www.education.state.pa.us/protal/server.pt/community/programs_of_study/7686

PCNOW Enrollment offered through Pennsylvania College of Technology:

<https://k12.pct.edu/penncollegenow/school.htm?id=24>

TRADES

Building Construction Trades -- 900 hours

This program of study covers construction and remodeling of buildings including carpentry, concrete, masonry, painting, drywall, cabinetry, roofing, plumbing, electrical, stairs, and interior/exterior finishes. Students study and practice all phases of building construction, from layout of site, foundation and wall construction, to roof framing and interior trim.

Industry Credential Opportunities:

Service Provider - National Center for Construction Education and Research (NCCER)

Service Provider – OSHA: 10 hour course, Construction

PCNOW – Dual Enrollment Courses offered through Penn College of Technology: BCT 103, BCT 109 & MCT 115 (10 credits offered)

Electrical Occupations – 900 hours

In this program of study students develop the skills and gain knowledge necessary for entry level work in the electrical field. Students study and practice wiring all phases of residential with an introduction to commercial and industrial electricity including motor controls. Emphasis is placed on electrical safety, electrical codes, and work ethics.

Industry Credential Opportunities:

Service Provider – OSHA: 10 hour course, Construction

Mechanical Trades (HVAC-Plumbing-Electrical) - 900 hours (NEW COURSE)

The Heating, Ventilation & Air Conditioning (HVAC) program is an instructional program that combines classroom and practical learning experiences. This program prepares individuals to apply technical knowledge and skills to install, repair, and maintain commercial and domestic heating, air conditioning, basic plumbing, electrical and refrigeration systems. The program will be certified by the National Center for Construction Education and Research.

Industry Credential Opportunities:

Service Provider – OSHA: 10 hour course, Construction

Service Provider – Air Conditioning, Heating & Refrigeration Institute: EPA 608

TRANSPORTATION

Automotive Mechanics Technology - 900 hours

This program prepares individuals to apply technical knowledge and skills to the specialized area of automotive technology including engine diagnosis, engine repairs, heating & cooling systems, power train, brake suspension, steering systems, and computerized engine controls. Students study and practice all phases of engine repair and overhaul from diagnosis-problem solving to preventative maintenance.

Industry Credential Opportunities:

Service Provider – Pennsylvania Department of Transportation: Certified Safety Inspector Cat I, Cat II, Cat III.

Service Provider - S/P2: Safety Training

Collision Repair Technology – 900 hours

This program prepares individuals to apply technical knowledge and skills to the specialized areas of automotive reconstruction and restoration including panel replacement and repair, frame repair, plastic repair, refinishing, auto body related mechanics, automotive electricity, and estimating. Students study and practice all methods of auto body repair including the use of hand tools, welding practices, body and frame repair, refinishing processes, spray painting techniques, interior trim removal, upholstery, weather stripping, sheet metal repair, filler work, and plastic repair.

Industry Credential Opportunities:

Service Provider - Pennsylvania Dept. of Transportation: Environmental Protection Agency 6H

Service Provider - S/P2: Safety Training

Service Provider – ICAR: Non-Structural

Diesel Mechanics Technology – 900 hours

This program prepares individuals to apply technical knowledge and skills to the specialized maintenance and repair of trucks, buses and other commercial and industrial vehicles. The program includes instruction in diesel engine mechanics, suspension and steering, brake systems, electrical electronic systems, preventative maintenance inspections, drive trains, HVAC systems, and auxiliary equipment installation and repair.

Industry Credential Opportunities:

Service Provider – Pennsylvania Department of Transportation: Certified Safety Inspector Cat I & Cat III

Service Provider – S/P2: Safety and Pollution Prevention

PCNOW - Dual Enrollment Courses offered through Penn College of Technology: DSM 119 & DSM 141 (4 credits offered)

HEALTH CARE

Health Assistant/Pre-Nursing - 900 hours

This course allows the student to advance at their own rate and allows for individuality in the choice of a specific career objective. This course provides skills for Medical Assistant, Nursing Assistant, and Dental Assistant. Introduction to EKG, Phlebotomy, Occupational and Physical Therapies are included. This course is for the student looking to further their education in health care as a Registered Nurse, LPN, OT, PT and other health care related fields. After completion of the nursing assistant curriculum, students are eligible to take the state exams (written & skill) for placement on the registry for long-term care nursing assistants. Clinical experiences may accompany portions of this course.

Industry Credential Opportunities:

Service Provider - Pennsylvania Department of Health: Nurse Aide Registry

Service Provider – American Red Cross: First Aid and CPR

Service Provider - DVM-Instructional Systems: Dean Vaughn Learning Systems in Medical Terminology

PCNOW - Dual Enrollment Courses offered through Penn College of Technology: HTH 100 & MTR 104 (5 credits offered)

HUMAN SERVICES

Cosmetology – *1350 hours (Tech Prep)

This is a state licensed course designed to provide the student with fundamentals needed to prepare for the state board examination. Instruction is provided in chemical textures, hair coloring and lightening techniques, haircutting and hair design, microdermabrasion, glycolic peels, facials, superfluous hair removal, styling eyebrows, pedicures, manicures, and nail art. Practical experience is gained by providing services through the operation of a clinic whereby students work on each other's hair and work on volunteer "customers" from the community.

Industry Credential Opportunities:

Service Provider - Pennsylvania State Board of Cosmetology: Cosmetologist

***1250 hours** is required by the Pennsylvania State Board of Cosmetology to take the State Board exam. In order to obtain proper hours, students will need to enroll their 10th grade year or summer attendance will be required through class of 2018. Summer school will no longer be offered after the June 2017 session.

HOSPITALITY

Food Production & Management- 900 hours

This course is designed to provide the student with the skills, knowledge, and attitudes necessary in food service and hospitality related careers. Specialized learning units include theory and work experience in the major areas of cooking, baking, dessert and salad preparation. The restaurant kitchen serves as the preparation laboratory, while the 38 seat restaurant provides experience in proper and efficient serving.

Industry Credential Opportunities:

Service Provider – National Restaurant Association: ServSafe Manager’s Certification offered in the second year.

PCNOW - Dual Enrollment Courses offered through Penn College of Technology: HTH 100 (1 credit offered)

MANUFACTURING

Machine Tool Technology – 900 hours

The MTT program is designed to prepare students with the skills and experience necessary to obtain entry level employment in the metal products industry. Students will be trained in the conventional areas (lathe, mills, drills, and grinders), as well as in Computer Numerical Control (CNC) machines, with an emphasis on safety.

Industry Credential Opportunities:

Service Provider - National Institute for Metalworking Skills, Inc. (NIMS)

PCNOW - Dual Enrollment Courses offered through Penn College of Technology: MTT 118 & MTT 119 (4 credits offered)

Welding Technology – 900 hours

The Welding program is taught in a simulated work environment to help develop the hands-on experience, as well as theory and equipment and shop safety skills. The course is designed to equip students with skills and knowledge in shielded metal arc welding (SMAW), gas metal arc welding (GTAW), and flux core arc welding (FCAW), as well as blueprint reading and fabrication.

Industry Credential Opportunities:

Service Provider - American Welding Society: Level 1 Entry Welder Training

Service Provider – OSHA: 10 hour Safety Course, Construction

PCNOW - Dual Enrollment Course with Pennsylvania College of Technology: WEL 114, WEL 116, WEL120, WEL123, WEL124 & WEL129 (12 credits offered)

Carl D. Perkins Act – Funding provided by the Carl D. Perkins Act allows NTCC to provide services to all students with an emphasis on providing services to students of special populations.

<http://www.education.pa.gov/Documents/K-12/Career%20and%20Technical%20Education/Perkins/Perkins%20Local%20Plan%20Funding%20Guidelines.pdf>

The Northern Tier Career Center is an equal opportunity education institution and will not discriminate on the basis of race, color, national origin, sex or handicap in its activities, programs or employment practices as required by Title VI and IX and Section 504. For more information, contact the Title IX and Section 504 Coordinator at 120 Career Center Lane Towanda, PA 18848-8095, (570) 265-8111.

CAREER DEVELOPMENT COUNCIL SERVICES
AVAILABLE THROUGH THE GUIDANCE OFFICE AT THE SAYRE HIGH SCHOOL

Job Shadowing – Juniors and seniors are encouraged to get first-hand career information with an area professional in their work environment. Students gain knowledge of the job responsibilities, what a typical day is like, and education and training requirements. Job shadows range from an hour to a full day depending on the occupation being shadowed and the variety of job duties.

Career Panels – A panel of professionals speak on various career topics in a group setting. Panel’s topics often include: medical careers, psychology and social work, law enforcement, forensic science, sports careers, and fashion design.

Work Site Visits – Tours of local employers can be arranged to help students learn about the range of employment opportunities, and the skills needed to be employed along with hiring practices.

Resume Preparation and Review – Assistance with resume preparation and cover letters.

Employment Assistance – Information is provided on local employers and registration for employment at the Pennsylvania Career Link.

Mock Interviews – A practice employment interview is conducted with local employers to help students receive input on their interviewing strengths and areas of improvement needed.

Internet Career Research Assistance

Mrs. Johnson – caroljohnson@sayresd.org or carjohnson@gstbores.org
