

TABLE OF CONTENTS

Introduction.....	2
School Cycle.....	2
Scheduling.....	2
Course Levels.....	3
Grading Scale.....	3
Senior Project Course Description.....	3
College Prep Curriculum	4
Academic Requirements for College Bound Athletes	4
Graduation Credits	5
Course Offerings.....	6
Programs of Study:	
Art.....	23
Business	21
Driver Education.....	28
Engineering Technology.....	7
Family and Consumer Science	25
Fitness for Life.....	28
Foreign Language	19
Health.....	28
Industrial Arts Technology	26
Language Arts/English	8
Mathematics.....	14
Music	24
Physical Education.....	27
Science.....	17
Social Studies.....	12
Student Enhancement	21
Vocational/Technical Programs.....	30
Keystone Exam Acceleration Classes (Algebra 1, Biology & Literature)	29
Career Development Council Services	36

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. 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 \$58/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 \$91 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

SENIOR PROJECT COURSE DESCRIPTION

The Senior Project is a graduation requirement required of all students by the Pennsylvania State Board of Education. It is designed to represent an exhibition of the skills a senior has learned throughout their high school experience. The project consists of a research/reflective paper, oral presentation, tangible “final product”, and a documentation of at least 30 hours of independent work. An additional 5 hours of community service will need to be completed and documented during the sophomore and junior years. There is no class time assigned to completing the project, but a student is given an advisor and a scheduled presentation date and time. A committee of faculty members reviews the project to determine if it meets the guidelines for graduation. Advisor Mr. Johnston – djohnston@sayresd.org

COLLEGE PREPARATORY CURRICULUM

The College Preparatory program places emphasis on languages, mathematics, social studies and the sciences. 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 sport in college. It allows for greater career options in later years.

Grade 9

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

Grade 10

English 10 CP or H
Global History & Culture I CP
Biology 10CP
Algebra 2
French 2, Spanish 2 or Italian 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 Mathematics of Physics
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 or Statistics AP/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.
(Wire, Rick: The Student Athlete & College Recruiting)

PLEASE NOTE: General Level Courses do NOT meet core course requirements for the NCAA.

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 Mass Communications, Yearbook, Woodshop, Fitness for Life, Web Page, 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
Economics G
General Psychology 1 (CCC on-line)
Am. History 1 (CCC on-line)

SCIENCE

Science 9 CP
Science 9 G
Biology CP
Biology G
Chemistry CP
Chemistry G
Biology 2 H
Chemistry 2 H/ACE
Science Today G

MATHEMATICS

Pre-Algebra
Algebra 1
Geometry
Algebra 2
Pre-Calculus CP
Statistics CP /ACE
Calculus H/ACE
Mathematics of Physics H

STUDENT ENHANCEMENT

21st Century Skills Course

BUSINESS

MS Office (Grade 9)
Computer Apps CP/ACE
FYEX 1000 CP/ACE
Web Page Design
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 Shop 1
Wood Shop 2
Metal Shop 1
Basic Mech. Drawing/Basic AutoCAD
Basic Electricity & Electronics

PRE-ENGINEERING AND ENGINEERING TECHNOLOGY

Design Drawing & Production
Principles of Engineering
Digital Electronics
Computer Integrated Manufacturing
Civil Engineering & Architecture
Engineering Design and Development

MUSIC

Instrumental Music
Concert Choir
Music Writing (Composition)

PHYSICAL EDUCATION

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

ART

Design
Ceramics/Sculpture
Oil/Water Painting
Studio Art
Computer Graphics

VOCATIONAL-TECHNICAL COURSES

Building Construction
Electrical Occupations
Heating, Ventilation, Air-Conditioning & Refrigeration
Machine Tool Technology
Welding Technology
Automotive Mechanics Technology
Collision Repair Technology
Diesel Mechanics Technology
Diversified Occupations (Seniors Only)
Health Care Technology
Health Assistance
Medical Records
Food Production & Management
Cosmetology

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 2016/2017 school year.**)

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

The major focus of the Civil Engineering and Architecture (CEA) course is a long-term project that involves the development of a local property site. As the students learn about various aspects of civil engineering and architecture, they apply what they learn to the design and development of this property. The course is structured to enable all students to have a variety of experiences that will provide an overview of both fields. Students will work in teams, exploring hands-on projects and activities to learn the characteristics of civil engineering and architecture.

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 2015/2016 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
 - A C 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 will also explore the world of advertising and public relations. Students will produce an online school newspaper, *The Tomahawk Times*, using basic reporting and photojournalism skills. Students get real publishing experience through the S.A.Y.R.E. feature in *The Morning Times*. Students will also learn the basics of radio broadcasting and videography. After successful completion of Mass Comm. 1 and the instructor's recommendation, students may continue their study by taking Mass Comm. 2 and 3. These students will be expected to take leadership positions in the class and on school publications. Mass Comm. 2 and 3 will also introduce the creation of a school news video production that can be published electronically.

YEARBOOK	1 Year	1 Credit	Grade 9-12
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- Prerequisites:
 - Instructor's approval
 - English teacher's recommendation
 - A B 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
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AMERICAN HISTORY G	1 Year	1 Credit	Grade 9
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American History traces American social, political, economic and geographic development from 1900 to 2000's. It emphasizes evolution of themes in response to continuously changing historical demands and conditions. Individual differences are served through the depth of coverage and type of tests.

GLOBAL HISTORY & CULTURE I CP	1 Year	1 Credit	Grade 10
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GLOBAL HISTORY & CULTURE I G	1 Year	1 Credit	Grade 10
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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
ECONOMICS G	1/2 Year	½ Credit	Grade 12

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.

GENERAL PSYCHOLOGY 1 and AMERICAN HISTORY 1 will be taught on-line by Corning Community College instructors. A Sayre Area School District staff member will be assigned to oversee these classes and provide academic assistance when needed. Students who take these courses will be eligible to earn college credit through Corning Community College.

GENERAL PSYCHOLOGY 1	1/2 Year	½ Credit	Grades 11-12
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- Pre-Requisites:
 - CP Curriculum
 - English Average Minimum Grade of 85%.

PSYC 1101 – General Psychology 1 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. (3 credit hours)

AMERICAN HISTORY 1	1/2 Year	½ Credit	Grades 11-12
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- Pre-Requisites:
 - CP Curriculum
 - English Average Minimum Grade of 85%.

HIST 1110 – American History 1 covers dreams and concepts brought to the New World and their development into America’s institutions and social fabric. Conflict and consensus among groups, dilemmas facing revolutionaries and reformers, and ways economic, political and social changes have occurred. (3 credit hours) *Meets General Education requirement in American History.*

MATHEMATICS

PRE-ALGEBRA	1 Year	1 Credit	Grades 9-12
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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.

- Passing score on Course 3 final exam.
- 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 9-12

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 score on Pre-Algebra final exam.
- 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 score on Algebra 1 final exam/Algebra 1 Keystone Exam.
- 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, 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, 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 probability and data analysis as well as numerous examples and exercises involving trigonometry. 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.

- Passing score on Geometry final exam/Geometry Keystone Exam.
- 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, common and natural logarithms, angular velocity, conic sections, combinations, permutations, systems of inequalities, sinusoidal equations, normal distributions, boxplots, stem plots, linear variation, antilogarithms, logarithmic equations, simple probability, arithmetic and geometric means, exponential growth and decay, and the rational root theorem. Word problems will be developed through the problem sets. All students will be required to learn math vocabulary.

- Passing score on Algebra 2 final exam/Algebra 2 Keystone Exam.
- TI-83/TI-84 graphing calculator is mandatory for successful completion.
- Fast paced and very challenging.
- For students intending on post-secondary education.
- Completion of daily assignments is required for successful completion.
- Curriculum reflects PA Core Standards.

STATISTICS CP/ACE

1 Year

1 Credit

Grades 11-12

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

- Passing score on any Algebra 2 final exam/Algebra 2 Keystone Exam.
- 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, 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

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 covered include, but are not limited to, various pre-calculus review topics, limits, derivatives, integrals, techniques of differentiation, techniques of integration, applications of differentiation, applications of integration, and separable differential equations.

- Passing score on Pre-Calculus CP final exam.
- TI-89 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, thinking and work load.

- Curriculum reflects Corning Community College’s requirements for MA 1610.
- Successful completion could earn four (4) college credits.

MATHEMATICS OF 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

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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- Prerequisites:
 - Biology CP or recommendation by instructor; Grade of 85% or higher in Biology CP.
 - Recommend concurrent with Physics.
- Participation in lab is required.
- Good lab techniques and study skills are required.

Biology 2 H 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.

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.

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.

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	Grades 9-12
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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 9-12
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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 9-12
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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. Oral communication skills will be a major area of emphasis as students learn to use effective speech and formal presentation strategies purposefully and succinctly to reach an intended audience. Written communication will center on developing, editing and publishing informational genres through authentic, career-focused tasks such as resume and cover letter creation. Conflict resolution strategies are highlighted through student-led scenarios and open discussion. To engage in responsible digital citizenship students will use, access and manage appropriate technology and media for these learning purposes.

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.

WEB PAGE DESIGN	1 Year	1 Credit	Grade 10-12
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Web Page Design uses HTML and Dream Weaver programs to learn how to do web pages. Emphasis will focus on updating and maintaining the district web page. The use of scanners and the digital camera will also be included.

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

DESIGN	1 Year	1 Credit	Grade 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, journal entries, sketchbook checks, and classroom effort.

This course includes advanced problems dealing with art and design concepts and media in several different areas to be used at the student's discretion in a studio setting. These areas include creative design, drawing, lettering, figure study, cartooning, composition elements, calligraphy, 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 prepared and allowed to select any avenue of art studio available within the art curriculum. A student sketchbook based on creativity is required as well as completed exercises and vocabulary worksheets with emphasis on art techniques, periods of art, and the effect of art on today's culture. Weekly journal entries based on visual culture and self-evaluations are also required.

CERAMICS/SCULPTURE	1 Year	1 Credit	Grade 10-12
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- Available to 9th grade students if not able to schedule Design.

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 coil, slab, hand building, plaster construction, assemblage, cardboard construction, clay, wheel throwing, and an opportunity to design and create a project based on their skills developed. Weekly journal that place emphasis on periods of art and its effect on culture today vocabulary worksheets, and self-evaluations are required.

OIL PAINTING/ WATER BASE MEDIA	1 Year	1 Credit	Grade 10-12
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- Recommended Prerequisite - Design or Ceramics/Sculpture

Oil Painting/Water Base Media 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, with variations and opportunity for individual experimentation. Emphasis is placed on the understanding of the various approaches and techniques rather than the resulting product. The intent is to have our students understand the process of painting. Creative sketches, draft paintings, vocabulary worksheets, and self-evaluations are also required in this course for creative development and artistic enrichment.

COMPUTER GRAPHICS	1 Year	1 Credit	Grade 10-12
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- Recommended Prerequisite - Design or Ceramics/Sculpture

The course of study involved with this studio option is centered around the techniques and options needed to create computer graphic images: using software available, using layers, importing images/sounds, manipulating images, creating GIF animations, and building flash movies. Approximately the first half of the year involves a focus on Adobe Photoshop editing and painting techniques, and the second half covers digital movies and animations with Adobe Flash. Weekly journals based on visual culture and self-evaluations are required.

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

STUDIO ART	1 Year	1 Credit	Grade 12
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- Recommended: Design and Painting or Ceramics/Sculpture **and** teacher recommendation required.

Studio Art is a course for the highly motivated student interested in the serious study of art. Every student will be expected to develop a quality portfolio and exhibit a senior show of their work before the end of their senior year. Projects are developed through research 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 matted, framed or mounted to be considered complete at this level. Creative development, proposal forms, monthly visual journals, and self-evaluations are required per marking period for artistic enrichment. Students are required to provide quality images of their finished work on a regular basis to post on the high school art department's website during each semester for administrative review of progress and community exposure.

MUSIC

INSTRUMENTAL MUSIC	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 WRITING (COMPOSITION)

1 Year

½ Credit

Grades 9-12

Music Writing (Composition) is a technology-based course is designed for students interested in writing their own music and/or pursuing a music career. Emphasis is on the musical tools necessary to creatively and effectively write music, including written notation, chord structure, analysis, and harmony. Students will develop skills necessary to identify scales, intervals, triads, and key relationships. Additionally sight-singing and ear-training will be included to develop aural skills. Students will analyze and create several musical compositions throughout the course. The course will culminate in a final music-writing project. Finale music-writing software, piano keyboards, and internet sources will be utilized during this course.

FAMILY & CONSUMER SCIENCE

FAMILY & CONSUMER SCIENCE 1

1 Year

1 Credit

Grades 9-12

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

- 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

- 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

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

METAL SHOP 1	1 Year	1 Credit	Grades 9-12
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- **Daily Requirements:** a writing utensil and a three ring binder dedicated to this class.
- Cooperation and participation.

Metal Shop 1 is a full year (2 semesters) course for students interested in working with metal and metal fabrication. There are weekly quizzes on materials and machines used in this course. Topics covered will be: sheet metal work and tools, heat treating, foundry casting aluminum, wrought iron work, and different welding techniques. There are mandatory projects that must be completed throughout the course of the school year. Before starting any new project a Bill of Materials MUST be completed by student. Students are responsible for the cost of all materials used for their projects.

WOOD SHOP 1	1 Year	1 Credit	Grades 9-12
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- **Daily Requirements:** a writing utensil and a three ring binder dedicated to this class.
- Cooperation and participation.

Wood Shop 1 is a full year (2 semesters) course for students interested in working with and learning about wood. There are weekly quizzes on materials and machines used in this course. There are mandatory projects that must be completed throughout the course of the school year. As knowledge and experience progress, students will be able to (with instructor permission) design or make individual projects. Before starting any new project a Bill of Materials MUST be completed by student. Students are responsible for the cost of all materials used for their projects. Students will also be introduced to some basic drafting techniques throughout this course.

WOOD SHOP 2	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 three ring binder dedicated to this class.
- Cooperation and participation.

Wood Shop 2 is a full year (2 semesters) course for students interested in working with wood. There are weekly quizzes on materials and machines used in this course. There are mandatory projects that must be completed throughout the course of the school year. Student will learn new techniques and more advanced equipment use in the wood shop environment. As knowledge and experience progress, students will be able to (with instructor permission) design or make individual projects. Before starting any new project a Bill of Materials MUST be completed by student. Students are responsible for the cost of all materials used for their projects. Students will also be introduced to some drafting techniques throughout this course.

BASIC MECHANICAL DRAWING/AutoCAD	1 Year	1 Credit	Grades 9-12
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- **Daily Requirements:** a writing utensil and a three ring binder dedicated to this class.
- Cooperation and participation.

Basic Mechanical Drawing/AutoCAD is a full year (2 semesters) course designed to introduce drawing techniques used in today's industry. The course uses drawing materials such as T-squares, triangles, and architect scales in the construction of isometric, orthographic, and perspective drawings. Later as this course progresses, students will learn about Computer Aided Drafting (AutoCAD). This is a basic introduction to AutoCAD. AutoCAD is a computer program that is used to create drawings for local businesses and many high-tech global markets.

BASIC ELECTRICITY AND ELECTRONICS	1 Year	1 Credit	Grades 9-12
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- **Daily Requirements:** a writing utensil and a three ring binder dedicated to this class.
- Cooperation and participation.

Basic Electricity and Electronics is a full year (2 semesters) course 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
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- 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
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- 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.**

TRADES

Building Construction -- 900 hours

This program of study covers construction and remodeling of buildings including carpentry, masonry, painting, drywall, cabinetry, stairs and 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 Certification Opportunities: National Center for Construction Education and Research (NCCER)

PCNow –Dual Enrollment Course with Pennsylvania College of Technology – 5 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 Opportunity: OSHA 10 Hour course for General Industry

Heating, Ventilation, Air-Conditioning & Refrigeration -- 900 hours

In this program of study students develop the skills and gain knowledge necessary for entry level work in the field of heating, ventilation, air-conditioning and refrigeration. Topics include proper and safe use of tools, identification of materials, and basic system components.

Industry Credential Opportunity: OSHA 10 Hour course for General Industry.

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.

Industrial Opportunities:

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

Welding Technology – 900 hours

Our 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).

Industry Certification Opportunities:

Service provider: American Welding Society: Level 1 – Entry Welder

Service Provider: National Center for Construction Education and Research (NCCER) Construction Technology.

PCNow - Dual Enrollment Course with Pennsylvania College of Technology. 12 Credits offered.

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, and 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 Certification Opportunities:

Service Provider – National Automotive Education Foundation: Automotive Service Excellence Certification (ASE).

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

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 Certification Opportunities:

Pennsylvania Department of Transportation: Environmental Protection Agency HHHHHH

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, HVACX systems, and auxiliary equipment installation and repair.

Industry Certification Opportunities:

Service Provider – Pennsylvania Department of Transportation: Certified Safety Inspector Cat I, Safety and Pollution Prevention (S/P2)

Senior Only:

Diversified Occupations

Diversified Occupations is a ONE YEAR – SENIOR YEAR ONLY instructional program that operates as an integral part of career and technical education to provide a cooperative arrangement between the Northern Tier Career Center and local employers whereby the student receives career related theory instruction in the school and on-the-job training through part-time employment in business/industry. The area of training may be in any career area where there are needs for trained persons and must relate to the student's career objective. This program is designed to provide training for those career areas not presently being offered at the Northern Tier Career Center, or to serve students who are unable to gain admission to a NTCC program due to enrollment limitations.

Certification Opportunities:

Industry Credential offered: OSHA 10 hour course for General Industry

HEALTH CARE

Health Care Technology - 900 hours

This course allows the student to advance at their own rate, and allows for their individuality in the choice of a specific career objective. This course provides skills for Medical Assistant, EKG, Introduction to Phlebotomy and Occupational and Physical Therapies. This course is for the student who are looking to further their education in health care as a Registered Nurse, OT, PT and other health care related fields. Clinical experiences may accompany portions of this course.

Industry Certification Opportunities: Medical Assistant, EKG

Service Provider – American Red Cross: First Aid and CPR

Service Provider - DVM-Instructional Systems:

Dean Vaughn Learning Systems in Medical Terminology

Health Assistance – 900 hours

This course allows the student to advance at their own rate, and allows for their individuality in the choice of a specific career objective. This course provides skills for Nursing Assistant, Dental Assistant, and Medical Assistant careers. 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 nursing assistants. Clinical experiences may accompany all portions of this course.

Industry Certification Opportunities: Pennsylvania Dept. 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

Medical Records – 900 hours

This program is designed to prepare students to assist physicians and other medical personnel by performing functions related to administrative and clerical duties in the medical office. Students study and practice medical terminology, computer operations, applicable laws and regulations, insurance forms, statistical reporting, medical records, medical transcription and word processing.

Industry Certification Opportunities: National Health Career Association: Administrative Medical Assisting, Billing and Coding Specialist.

Service Provider: DCM/Instructional Systems: Dean Vaughn Learning Systems in Medical Terminology

HOSPITALITY

Food Production & Management- 900 hours

This course is designed to provide the student with the skills, knowledge, and attitudes necessary in quantity foods 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 32 seat restaurant provides experience in proper and efficient serving.

Industry Certification Opportunities:

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

PCNow – Dual Enrollment Course with Pennsylvania College of Technology. 1 Credit offered.

HUMAN SERVICES

Cosmetology – *1250 hours

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 & lightening techniques, haircutting and hair design. Micro-derm abrasion, 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 Certification 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, summer attendance prior to junior year and senior year is required. You must provide your own transportation.

CAREER DEVELOPMENT COUNCIL SERVICES
AVAILABLE THROUGH THE GUIDANCE OFFICE OF 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. Horton – rhorton@sayresd.org or rhorton@gstbores.org
