

SAYRE AREA JR. SR. HIGH SCHOOL

SR. HIGH CURRICULUM GUIDE

(9TH – 12TH GRADES)

2025-2026

Updated as of 9/19/2025

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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 and thirty (30) minute FLEX period. A typical class load is seven (7) credits, with 6.5 being the minimum required amount of credits in one's schedule. 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 Miss Amber, the School Counselor, are encouraged to contact the Guidance Office at 888-2190.

SCHEDULE CHANGES. At the beginning of the school year, students will be given the first two weeks of school to add or drop courses on their schedule.

FOR SEMESTER 2 COURSES ONLY. Students will be given the first two weeks after the start of Semester 2 to add or drop a Semester 2 course.

After these periods of time have ended, all schedules are final. **Exceptions will be made and only granted in extreme situations and only with the approval of the high school administration.**

All parent override forms **MUST** be completed and turned into the guidance office **prior to OR no later than July 1st** of the upcoming school year.

SAYRE AREA JR. SR. HIGH SCHOOL

GUIDANCE OFFICE

331 WEST LOCKHART STREET

SAYRE, PA 18840

(570) 888-2190

School Counselor – Amber Schreiber

Guidance Secretary - Debra Brandt

School CEEB Code – 394375

Web Site – www.sayresd.org

COURSE LEVELS

DE (Dual Enrollment): Courses with this description offer college credit through either Corning Community College or Lackawanna College.

Courses offered through **Corning Community College** are free to students, with the exception of possible materials cost. Students who sign up for a dual enrollment course through Corning Community College will be automatically registered through CCC. 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).

Courses offered through **Lackawanna College** have a fee associated with them. Students who want to take these courses for college credit through Lackawanna College will need to complete a registration form (provided by Sayre High School) by the deadline (which they will be made aware of). Lackawanna College will invoice the families directly for the dual enrollment credits.

Advanced Placement (AP): Students who elect this option will receive high school credit and 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 \$95 per test.) AP level courses are weighted at 1.24.

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. Honors level courses are weighted at 1.24.

College Prep (CP) – Challenging courses to prepare students for the demands of post-secondary education. College Prep level courses are weighted at 1.12.

Academic (A) - For the English Department Only, Academic (A) is replacing English General. This course is for students who plan to attend a 4-year program, 2-year program or enter the workforce after graduation. However, unlike General, this course has to follow specific guidelines to meet NCAA requirements (D1 & D2 sports.) Academic level courses are weighted at 1.00.

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 workforce after graduation. (General level courses do **NOT** meet core course requirements for the NCAA (D1 and D2 sports.) General level courses are weighted at 1.00.

**STUDENTS ARE PLACED IN THE ABOVE LEVELS BY STUDENT/PARENT
REQUESTS AND PRE-REQUISITE REQUIREMENTS. YOUR CHOICES FOR
LEVELS SHOULD PREPARE YOU FOR YOUR CAREER PATH.**

DUAL ENROLLMENT COURSES

CORNING COMMUNITY COLLEGE

- English 12 AP/DE
- Pre-Calculus H/DE
- Calculus H/DE
- Statistics H/DE
- Chemistry 2 H/DE
- Chemistry 3 H/DE
- FYEX 1000 CP/DE - First Year Experience
- Business Applications & Solutions CP/DE
- Business Communications CP/DE
- Art Essentials CP/DE
- Wellness CP/DE
- Foundations of Education H/DE

LACKAWANNA COLLEGE

- English 12 CP/DE
- English 11 H/DE
- Algebra 2 CP/DE

KEYSTONE COLLEGE

- Biology 2 H/DE
- Biology of Organisms CP/DE

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

The Graduation Project is a graduation requirement for all students.

Graduation Project Advisor: Miss Amber

Contact Information: aschreiber@sayresd.org (570) 888-2190

The entire graduation project packet may be found online at www.sayresd.org. Click on High School/Students/Graduation Project. Graduation projects must be completed during the junior year.

Students must compile and submit:

1. A resume
2. Interest inventory results (taken anytime in Grades 9-12)
3. Documentation of community service hours (turn in form) – 10 hours *
4. Documentation of job shadows (turn in form) –3 *
5. Documentation of college visits (turn in form) – 2 *
6. Self-reflection paper (no longer than one page on what you learned from the activities you had to do for your graduation project and how the activities helped you choose your future career path)
7. You will be assigned a meeting date with Mrs. Schreiber in December/January of your junior year. All required materials must be completed by the meeting.

*** Documentation cannot be signed by a relative.**

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 H or CP
American History II CP
Science 9 CP or Biology CP
Geometry
Language (Year 1)
Phys. Ed.
One elective*

Grade 10

English 10 H or CP
Age of Empires CP
Biology CP or Chemistry CP
Algebra 2
Language (Year 2)
Phys. Ed./Driver's Ed.
Personal Financial Literacy

One elective *

Grade 11

English 11 H/DE or CP
World History & Culture CP
Chemistry CP or Physics H
and/or Biology 2H/DE and/or Chemistry 2H/DE
Pre-Calculus H/DE
Phys. Ed./Intro to Wellness CP/DE
1-2 Electives

Grade 12

English 12AP/DE or English 12CP/DE
Physics H and/or
Biology 2H/DE and/or Chemistry 2H/DE or
Chemistry 3H/DE
Calculus H/DE or Statistics H/DE
Phys. Ed
2-1/2-3 Electives

- * 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 or not 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. The NCAA has their own 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 -- <https://web3.ncaa.org/ecwr3/>

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	3 Credits
Mathematics	3 OR 4 Credits Students must take <u>either</u> 3 Math credits and 4 Science credits or 4 Math credits and 3 Science credits.
Science	3 or 4 Credits Students must take <u>either</u> 3 Math credits and 4 Science credits or 4 Math credits and 3 Science credits.
Physical Education	2 Credits
Health	½ Credit
Driver Education	¼ Credit
Personal Financial Literacy (Grade 10)	1 Credit
Electives to bring total credits to 24	----
Graduation Project	-----
PASSING GRADE IS 70%	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

Advanced Yearbook, Phys. Ed., Fitness for Life, Fishing & Boating, Concert Band, Concert Choir and Workplace Experience.

COURSE OFFERINGS 2025-2026

ENGLISH

English 9 H
English 9 CP
English 9 A
English 10 H
English 10 CP
English 10 A
English 11 H/DE
English 11 CP
English 11A
English 12 AP/DE
English 12 CP/DE
English 12 A
Intro to Yearbook Gr 9-11
Advanced Yearbook Gr 10-12
Literature of Horror Gr 10-12
Science Fiction Gr 9-12
Fantasy Gr 10-12
Public Speaking Gr 9-12
Young Adult Literature Gr 9-12
Film and Literature Gr 9-12
Civil Rights Literature Gr 10-12
Introduction to Creative Writing Gr 9-12
Roman & Greek Mythology Gr 9-12
World Mythology Gr 9-12
Model UN Gr 9-12
Conspiracy Theory Gr 10-12
Verse & Graphic Novels Gr 9-12

SOCIAL STUDIES

American History II CP Gr 9-10
American History II G Gr 9-10
Age of Empires CP Gr 9-11
Age of Empires G Gr 9-11
World History & Culture CP Gr 10-12
World History & Culture G Gr 10-12
Modern American History G Gr 11-12
Economics CP Gr 11-12
20th Century Cold War Era CP Gr 11-12
Psychology CP Gr 11-12
Am Civil Rights Movement G Gr 11-12

SCIENCE

Science 9 CP
Science 9 G
Biology CP
Biology G
Chemistry CP
Chemistry G
Biology 2 H/DE w/Anatomy Gr 11-12
Chemistry 2 H/DE Gr 11-12
Chemistry 3 H/DE Gr 11-12
Physics H Gr 11-12
Science Today G Gr 12
Biology of Organisms CP Gr 10-12

MATHEMATICS

Pre-Algebra
Algebra I
Geometry
Trigonometry CP Gr 10-12
Algebra 2 CP/DE Gr 10-12
History of Mathematics CP Gr 11-12
Pre-Calculus H/DE Gr 11-12
Probability & Statistics CP Gr 11-12
Statistics H /DE Gr 11-12
Calculus H/DE Gr 12
Math for Personal Finance Gr 11-12

BUSINESS

Personal Financial Literacy Gr 10
MS Office (Elective) Gr 9-10
Entrepreneurship Gr 9-12
Principles of Marketing Gr 9-12
Sports & Entertainment Marketing Gr 10-12
Business Applications & Solutions CP/DE 11 & 12 Only
FYEX CP/DE 11 & 12 Only
Business Communications CP/DE 11 & 12 Only
Workplace Experience (11th & 12th Only)

FOREIGN LANGUAGE

Spanish 1
Spanish 2
Other languages available thru SOLA
(see school counselor)

HUMANITIES

Foundations of Education H/DE Gr 11-12

INDUSTRIAL ARTS TECHNOLOGY

Wood Technology 1 Gr 9-12
Cabinetry Gr 10-12
Computer Aided Drafting (CAD) Gr 9-12
CNC Gr 11-12
Design Engineering Gr 9-12

MUSIC

Concert Band
Concert Choir
Music Appreciation Gr 9-12
Music History & Theory Gr 9-12

PHYSICAL EDUCATION

Driver Education
Health 11 – OR –
Introduction to Wellness CP/DE

Fitness for Life
Physical Education
Fishing & Boating

ART

Art Essentials CP/DE Gr 10-12
Drawing & Composition I Gr 9-12
Drawing & Composition II Gr. 10-12
Ceramics & Sculpture Gr 10-12
Digital Photography Gr 10-12
Painting Gr 10-12
Studio Art I Gr 11-12
Studio Art II Gr 12

VOCATIONAL-TECHNICAL COURSES

Building Construction Trades
Mechanical Trades-HVAC-Plumbing-Electrical
Pre-Nursing/Health Assistant
Culinary Arts/Food Prod & Mgmt
Cosmetology
Teacher Academy/Early Childhood Ed
Information Technology
Welding & Fabrication Technology
Automotive Mechanics Technology
Collision Repair
Diesel Mechanics
Diversified Occupations (Seniors ONLY)

Academic Requirements for College Bound Athletes – www.ncaa.org

NOTE: **General** level courses do **NOT** meet core requirements for the NCAA (D1 & D2 sports.)

PROGRAMS OF STUDY

LANGUAGE ARTS/ENGLISH

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. In addition, this course includes activities to build a more mature vocabulary and implement 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 to support analytical thought, and critical thinking is modeled and expected. The curriculum is developed around the approved textbook HMH *Into Literature: Grade 9*. **Teacher Recommendation and/or a final report card grade of a minimum of 95% in 8th grade English is required. This course requires summer reading and assignments.**

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. **Teacher Recommendation and/or a final report card grade of a minimum of 88% or higher in 8th grade English is required.**

ENGLISH 9 A	1 Year	1 Credit	Grade 9
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English 9 A builds on and expands the language arts skills developed in preceding grades. Students read novels, short stories, nonfiction, drama, and poetry and are introduced to Shakespeare and his works. Through extensive practice, students use the writing process to create sustained pieces of narrative, informative, and argumentative writing. Instruction in grammar, mechanics, usage, and style is integrated into the study of writing. Vocabulary will be studied in the context of literature and other supplementary materials. Short talks, presentations, and group discussions allow students to exhibit and practice their communication skills through a variety of interactions. Evaluation is based on tests and quizzes, projects, performances, and participation in class activities. The curriculum is developed around the approved textbook HMH *Into Literature: Grade 9*.

ENGLISH 10 H

1 Year

1 Credit

Grade 10

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. The curriculum is developed around the approved textbook HMH *Into Literature: Grade 10*. Students enrolled in this course will take a Literature Keystone Exam as required by the state. **Teacher Recommendation and/or a final grade of 93% or higher is required for placement in English 10 H. This course requires summer reading and assignments.**

ENGLISH 10 CP

1 Year

1 Credit

Grade 10

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. Students enrolled in this course will take a Literature Keystone Exam as required by the state. **Teacher Recommendation and/or a final report card grade of a minimum of 88% or higher in 9th grade English is required.**

ENGLISH 10 A

1 Year

1 Credit

Grade 10

English 10 A 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. The curriculum is developed around the approved textbook *HMH Into Literature: Grade 10*. Students enrolled in this course will take a Literature Keystone Exam as required by the state.

ENGLISH 11 H/DE	1 Year	1 Credit	Grade 11
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This is a dual enrollment course with Lackawanna College.

English 11 H is designed to challenge the student who has an interest in language and literature. In this course students will focus on critical thinking and will engage in specific reading, writing, and communication skills that will prepare them for career and college-level experiences. Students will also learn to evaluate critically what they read and write: they will explore representative works of American literature and respond to readings through discussion and writing. Modes of writing include narratives, argumentative essays, comparison/contrast compositions, and literary analyses. The curriculum is developed around the approved textbook *HMH Into Literature: Grade 11*. Enrollment in this course also requires students to take the PSAT (the school district pays the PSAT fee). Up to 3 credits can be earned from Lackawanna College. Students in this course are required to write multiple 2-3 page essays and a 5-7 page research project for Lackawanna College. **Teacher Recommendation and/or a final grade of 93% or higher is required for placement in English 11. This course requires summer reading and assignments.**

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. **Teacher Recommendation and/or a final report card grade of a minimum of 88% or higher in 10th grade English is required.**

Enrollment in this course also requires students to take the PSAT (the school district pays the PSAT fee).

ENGLISH 11 A	1 Year	1 Credit	Grade 11
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English 11 A is designed for students who may or may not be seeking post-secondary education. In this course students will focus on critical thinking and will engage in specific reading, writing, and communication skills that will prepare them for career and college-level

experiences. Students will also learn to evaluate critically what they read and write: they will explore representative works of American literature and respond to readings through discussion and writing. Emphasis will be placed on the writing process; modes include narratives, informational papers, argumentative essays, comparison/contrast compositions, and literary analyses. The research process is also explored. The curriculum is developed around the approved textbook HMH *Into Literature: Grade 11*. Students enrolled in this course are encouraged to take the PSAT (the school district pays the PSAT fee) and the ASVAB test which is also free.

ENGLISH 12 AP/H/DE

1 Year

1 Credit

Grade 12

This is a dual enrollment course with Corning Community College.

AP English Literature and Composition requires students to critically evaluate literature at a college level. Students will enrich their understanding of literary elements and language by deeply engaging with works of recognized literary merit from a range of genres (short stories, poetry, novels, and drama). We will read, discuss, and write as a class, in book club groups, and as individuals with self-selected texts. Students will be expected to write in response to many prompts, including creative work, extended literary analysis, and timed writing assignments. This course requires a high level of academic engagement and investment, but it will be a rewarding effort. At the end of the course, students may take the Advanced Placement exam to receive possible college credit. Up to 6 credits can be earned from Corning Community College (CCC Course # ACE 1010 College Composition I and ACE 1020 College Composition II). **Teacher Recommendation and/or a final grade of 90% or better in English 11 H is required for placement in AP/ACE. This course requires summer reading and assignments.**

ENGLISH 12CP/DE

1 Year

1 Credit

Grade 12

This is a dual enrollment course with Lackawanna College.

English 12CP is an intense study of literature and composition from a variety of historical contexts and genres, 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. The curriculum is developed around the approved textbook HMH *Into Literature: Grade 12*. Up to 3 credits can be earned from Lackawanna College. Students are required to write multiple 2-3 page essays and a 5-7 page research paper for Lackawanna College. **Teacher Recommendation and/or a final grade of 88% or higher in English 11 H is required for placement in English 12 CP. This course requires summer reading and assignments.**

ENGLISH 12 A

1Year

1 Credit

Grade 12

English 12 A is designed for students who may or may not be seeking post-secondary education. Students will study literature and compositions from a variety of historical contexts

and genres. In addition, students will extend their thinking by developing compositions in a variety of genres. The curriculum is developed around the approved textbook HMH *Into Literature: Grade 12*.

INTRO TO YEARBOOK	1 Year	1 Credit	Grade 9-11
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- Prerequisites:
 - Instructor's approval
 - English teacher's recommendation
 - An 86% average or higher in English.

This foundational course serves as a stepping stone to Advanced Yearbook, providing students with a comprehensive understanding of the basics. Throughout the year, budding journalists and designers will explore the fundamentals of layout design, photography, and storytelling, discovering how to capture the essence of a school year. Students will gain hands-on experience with industry-standard tools, fostering creativity and teamwork. By the end of the course, participants will possess the skills and knowledge needed to confidently transition to Advanced Yearbook, equipped to play a vital role in documenting the memories and milestones that define their school community.

ADVANCED YEARBOOK	1 Year	1 Credit	Grade 10-12
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- Prerequisites:
 - Instructor's approval
 - English teacher's recommendation
 - An 86% average or higher in English.
 - Pass Intro to Yearbook

Advanced Yearbook is an independent study course that 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. Students will review the skills taught in Intro to Yearbook through mini-lessons on various topics, such as: copy editing, Law (free speech and ethics), layout design, and photography. After successful completion of Advanced Yearbook and the instructor's recommendation, students may continue their study by taking Advanced Yearbook in any subsequent year. These students will be expected to take leadership positions in the class, such as editors, publicists, and business managers.

LITERATURE OF HORROR AND SUPERNATURAL	1 Year	1 Credit	Grades 10-12
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This course surveys the long tradition of literature that depicts the intrusion of supernatural forces into the social order. The fantastic or horrific elements of these tales might be their best-known traits, but such literature can also express social desires and fears, as well as ruminate on personal and political history. The supernatural, in other words, works to reveal those individuals and institutions that face it. This course

explores a range of horror writing, investigating issues raised by individual texts and considering possible connections between them. This course can count as a 12th grade English credit.

SCIENCE FICTION

1/2 Year

1/2 Credit

Grades 9-12

As a genre of literature, science fiction enables human beings to model themselves as cosmic species, a life form that imagines and inhabits an entirely new scale of being. No longer confined to a tribe, nation, or tradition, science fiction narrates and explores the galactic magnitudes of both the external world of astronomical exploration (billions and billions of stars) and the inner world of subjective reality and imagination (billions and billions of neurons). This course introduces students to the surprisingly long history of science fiction as a way of exploring both the microcosm and the macrocosm, mapping a species and imagining themselves into the future.

FANTASY

1 Year

1 Credit

Grades 10-12

Perhaps more than any other genre of speculative fiction, Fantasy is richly varied. This course examines the development of literary traditions in fantasy literature from their earliest origins in mythology and folklore, through the historical development of classic fantasy works, into the books, movies, and other fiction of the modern day. The course specifically considers how the fantasy genre has incorporated a range of international traditions. The course also explores different critical and theoretical approaches to the student of fantasy literature and related artistic traditions, such as surrealism and magical realism. This course can count as a 12th grade English credit.

PUBLIC SPEAKING

1/2 Year

1/2 Credit

9-12

Designed to cultivate confident and articulate communicators, this program covers essential skills such as speech writing, vocal modulation, body language, and persuasive techniques. Students will engage in interactive workshops, peer evaluations, and real-world speaking opportunities. The class fosters a supportive learning environment, encouraging collaboration and creativity. By the end of the course, participants emerge as poised and confident speakers, equipped with the tools for effective communication, leadership, and success in future endeavors.

YOUNG ADULT LITERATURE

1/2 Year

1/2 Credit

Grades 9-12

This course is designed to increase student reading through the use of contemporary literature geared just for this age group. Students will be exploring YA literature through a lens of analysis and connection. What is worthy about literature? How can each of us connect to it? Does it reflect real life? What does "real life" even mean? All of these questions and more will be considered. The final project will consist of students choosing their own YA novel to read and

defend as worthy to the rest of their classmates. Please note that many contemporary YA novels have mature content, violence and explicit language. By registering for this course, it is understood that parents have indicated that the students are allowed to read novels with this content.

FILM AND LITERATURE	1/2 Year	1/2 Credit	Grades 9-12
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A comparative study of films and the literary sources upon which they are based. Special attention is given to the practical and theoretical problems of adapting literature to film and the basic differences between the two. The course explores how character development, plot, narrative, symbols, and language are translated from literary texts to film, and considers the limitations of film adaptation. Students read, analyze, and respond critically to literature and films in class discussions, examinations, and essays.

CIVIL RIGHTS LITERATURE	1 Year	1 Credit	Grades 10-12
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This course is devoted to the study of the writing about the struggle for racial justice through the eyes and visions of men and women who, as activists, participated in the movement, or who, as essayists, fiction writers, and cultural critics, chronicled and critiqued the movement's issues and events. Discussions in the course will be multi-voiced on the interconnections and frictions between race, literature, and politics. Texts for this course will cover a wide range of genres from oral histories, memoirs, and interviews to fiction, poetry, and drama written during the movement or reset in the movement. Therefore our focus will be both the texts and the contexts. This course can count as a 12th grade English credit.

INTRODUCTION TO CREATIVE WRITING	1 Year	1 Credit	9-12
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If you enjoy writing to express yourself creatively - you will be at home in this course. You will also be at home here if you are an avid reader of fiction, poetry, and nonfiction but have never tried your hand at writing it. In this course, you will explore the genres of nonfiction, fiction, and poetry by reading published essays, short stories, and poems and by writing personal essays, sketches, scenes, and poems. We'll discuss the relationship between the genres and also discuss what makes each a distinct art form. You'll hand in regular writing assignments in addition to completing longer writing projects. You'll share some of your creative work to discuss in class.

ROMAN & GREEK MYTHOLOGY	1/2 Year	1/2 Credit	Grades 9-12
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Students are NOT eligible to take Roman & Greek Mythology if they have already taken and passed "Mythology."

This course delves into the fascinating world of ancient Greek and Roman civilizations, exploring the myths and legends that have profoundly influenced Western literature, art, and culture for centuries. Students will embark on a captivating odyssey through the realms of gods,

goddesses, monsters, and mortal heroes, gaining a deep understanding of the cultural, historical, and philosophical significance of these myths. From the epic tales of Homer and Virgil to the timeless adventures of Hercules and Achilles, students will analyze recurring themes such as fate, heroism, and the human condition, uncovering their lasting impact on modern society.

WORLD MYTHOLOGY

1/2 Year

1/2 Credit

Grades 9-12

This course offers an exciting exploration of myths and legends from diverse cultures across the globe, providing students with a broad perspective on the universal themes that connect humanity. Students will journey through the mythological traditions of civilizations such as Norse, Egyptian, African, Asian, and Native American cultures, examining the stories of deities, legendary creatures, and heroic figures. Through comparative analysis, students will gain insight into the cultural values, belief systems, and historical contexts that shaped these mythologies, fostering an appreciation for the rich tapestry of human storytelling and its influence on contemporary culture.

MODEL UNITED NATIONS: DIPLOMACY AND GLOBAL LEADERSHIP

1/2 Year

1/2 Credit

Grades 9-12

In this course, students will step into the shoes of diplomats, engage in international affairs, and simulate the workings of the United Nations. Through research, collaboration, and debate, students will develop critical skills in diplomacy, public speaking, and global problem-solving. This semester-long course provides students with the opportunity to explore international relations, diplomacy, and the complexities of global issues within the context of the United Nations. Participants will represent different countries, research global challenges, and engage in lively debates to find diplomatic solutions to real-world problems.

CONSPIRACY THEORIES AND HOW TO DEBUNK THEM

1/2 Year

1/2 Credit

Grades 10-12

In this course, students will develop essential critical thinking skills to analyze, evaluate, and debunk various conspiracy theories prevalent in contemporary society. Through an interdisciplinary approach, students will engage with historical, scientific, and psychological perspectives to understand the origins, motivations, and implications of conspiracy theories. This course seeks to empower students with the tools to navigate the complex landscape of conspiracy theories, fostering a deeper understanding of information literacy, skepticism, and evidence-based reasoning. Through a combination of case studies, critical discussions, and collaborative projects, students will enhance their ability to discern credible information from misinformation.

VERSE AND GRAPHIC NOVELS

1/2 Year

1/2 Credit

Grades 9-12

This interdisciplinary exploration invites students to engage with literature in two distinct yet interconnected forms: poetry and graphic novels. Through an immersive study of language,

imagery, and narrative structure, students will deepen their appreciation for storytelling and explore the unique ways in which words and visuals collaborate to convey powerful narratives. Students will engage in discussions, creative projects, and reflections that encourage them to explore the expressive potential of both verse and graphic novels. By the end of the semester, students will have gained a nuanced understanding of the artistic and literary choices that contribute to the powerful impact of storytelling across multiple mediums.

SOCIAL STUDIES

Social Studies Required Courses (student must take any 3 for graduation requirements, a 4th may be taken as an elective.

AMERICAN HISTORY II CP	1 Year	1 Credit	Grades 9-10
AMERICAN HISTORY II G	1 Year	1 Credit	Grades 9-10

It is strongly encouraged this course be taken in 9th grade as a continuation from 8th grade American History I. American History traces American social, political, economic and geographic development from the late 1800's Reconstruction through World War II. It emphasizes evolution of themes in response to continuously changing historical demands and conditions.

AGE OF EMPIRES CP	1 Year	1 Credit	Grades 9-11
AGE OF EMPIRES G	1 Year	1 Credit	Grades 9-11

Age of Empires 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, and then the Roman Empire. From the collapse of Rome, focus will include the Byzantine Empire, Russia, especially the Middle Ages in Europe, The Renaissance, and decline of feudalism, the influence of the Ottoman Empire, The Age of Exploration, and finally the ideas of Absolutism, The Enlightenment, and the first global wars of the British Empire. The class will conclude with the state of Europe at the start of the French Revolution/Napoleonic Empire.

WORLD HISTORY & CULTURE CP	1 Year	1 Credit	Grades 10-12
WORLD HISTORY & CULTURE G	1 Year	1 Credit	Grades 10-12

World History & Cultures is intended to give the student a global and interdisciplinary study of the geography, history and culture of regions throughout the world; South Asia, Southeast Asia,

Africa, China. Also, this course will stress on awareness of the world's traditions and current problems of mankind.

MODERN AMERICAN HISTORY G	1 Year	1 Credit	Grades 11-12
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Although it is not required, American History II is strongly recommended as a prerequisite. 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 11-12
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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, incentives, the supply and demand for goods and services, and elasticity are topics as well. This is a college preparatory level class and therefore will address content of, and be structured to model, an introductory college level class. This includes using an online, college level textbook. Students will be personally responsible for much of the content comprehension and application. (This class does NOT cover investing, stock market analysis, banking and other financial markets.)

20th CENTURY COLD WAR ERA CP	1/2 Year	½ Credit	Grade 11-12
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American History II is a prerequisite for this course. This class is intended to give the student a comprehensive study of the people, places and events of the Cold War era. The course will focus on foreign relations, culture and diversity as it relates to America becoming a world power.

PSYCHOLOGY CP	1/2 Year	1/2 Credit	Grades 11-12
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Psychology is an introduction to psychology. Topics include the origins of psychology, perspectives of psychology, biology (of the brain), consciousness, and cognitive development. This is a college preparatory level class and therefore will address content of, and be structured to model, an introductory college level class. This includes using an online, college level textbook. Students will be personally responsible for much of the content comprehension and application.

American History II is a prerequisite for this course. A comprehensive study of the history, people, stories, events, issues, and legislation of the civil rights struggle in America. Students will learn about the social and cultural effects of the movement, the different organizations that supported it and opposed it as well as the legacy it left behind. The focus of the course will be on the time period from 1954-1965.

MATHEMATICS

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 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.

- Passing Pre-Algebra or Advanced Math 7 or General Math 8.
- District issued TI-Nspire graphing calculator for successful completion of course.
- Completion of daily assignments is required for successful completion.
- Curriculum reflects PA Core Standards and Keystone Exam Anchors and Eligible Content.

GEOMETRY	1 Year	1 Credit	Grades 9-12
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In Geometry, you will be developing 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.

- 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.

TRIGONOMETRY CP	1 Year	1 Credit	Grades 10-12
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This course explores the principles and applications of trigonometry, building on algebraic and geometric foundations. Students will study trigonometric functions, identities, and equations, as well as their applications in solving real-world problems. Key topics include the unit circle, graphing trigonometric functions, inverse trigonometric functions, right triangle trigonometry, and the laws of sines and cosines. Additional focus is placed on modeling periodic phenomena and using trigonometric concepts in fields like physics and engineering. By the end of the course, students will develop analytical skills and a deeper understanding of trigonometric relationships, preparing them for advanced mathematics courses and STEM fields.

PREREQUISITES:

- Passing Geometry.
- Can be taken concurrently with Algebra 2, Precalculus, Calculus, or Statistics.
- Desire for a concentrated Trig only Class.
- Ability to think critically and reason numerically.

ALGEBRA 2 CP/DE	1 Year	1 Credit	Grades 10-12
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This is a dual enrollment course with Lackawanna College.

Algebra 2 CP 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, SAT, and ACT), 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. All students will be required to learn math vocabulary.

- Passing Algebra 1 and Geometry.
- District issued TI-84 graphing calculator for successful completion of course.
- Completion of daily assignments is required for successful completion.
- Curriculum reflects PA Core Standards and Keystone Exam Anchors and Eligible Content
- Students may take Algebra 2 and Geometry simultaneously, but need approval from the math department.

Successful completion could earn three (3) college credits.

HISTORY OF MATHEMATICS CP	1 Year	1 Credit	Grades 11-12
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This course takes students on a journey through the rich history of mathematics, exploring its evolution from ancient civilizations to modern developments. Students will study the contributions of cultures such as Mesopotamian, Egyptian, Greek, Chinese, Indian, and Islamic societies, as well as the European Renaissance and beyond. Key topics include the origins of number systems, the development of geometry and algebra, the rise of calculus, and the role of

mathematics in science and technology. Emphasis is placed on understanding the historical context, influential mathematicians, and the interconnectedness of mathematical ideas across time. By the end of the course, students will appreciate mathematics not just as a tool for problem-solving, but as a profound human endeavor that has shaped our world.

PREREQUISITES:

- Passing Algebra 1/Geometry depending on 10th grade course taken.
- For any students with an interest in the history of mathematics and how it came to be.
- Ability to think critically and reason numerically.

PRE-CALCULUS H/DE	1 Year	1 Credit	Grades 11-12
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This is a dual enrollment course with Corning Community College.

Pre-Calculus H/ACE 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 with an average of 85% or higher.
- TI-84 or NSpire 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 Corning Community College’s requirements for MA 1411 & MA 1412.

Successful completion could earn four (6) college credits.

PROBABILITY AND STATISTICS CP	1 Year	1 Credit	Grades 11-12
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This introductory course provides students with a foundation in probability and statistics, focusing on practical applications and critical thinking. Students will explore key concepts such as data collection, organization, and analysis; measures of central tendency and variability; probability rules and distributions; and basic inferential statistics. Topics include creating and

interpreting graphs, understanding the normal distribution, calculating probabilities, and making data-driven predictions. Real-world applications in fields like science, business, and social studies will be emphasized. By the end of the course, students will gain the skills to analyze data, evaluate uncertainty, and make informed decisions.

PREREQUISITES:

- Passing Algebra 1/Geometry depending on 10th grade course taken.
- Desire for a basic level probability and statistics course.
- Ability to think critically and reason numerically.

STATISTICS H/DE	1 Year	1 Credit	Grades 11-12
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This is a dual enrollment course with Corning Community College.

Statistics CP/ACE is for 11/12 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 Algebra 2 with an average of 85% or higher.
- TI-84/NSpire 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/DE	1 Year	1 Credit	Grade 12
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This is a dual enrollment course with Corning Community College.

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 Pre-Calculus CP/ACE with an 85% or higher.
- TI-84/NSpire 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 course designed to teach students about financial literacy, achieving financial success and applying real world applications to their life. Topics are presented in an easy to understand manner. There is a large emphasis on vocabulary as well as basic mathematical computation. There are a variety of topics covered that can include but are not limited to: checking and savings accounts, taxes, resume and job applications, real estate and renting, cars, investments, credit card information.

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

- Prerequisite: grade of 85% or above in Science 8
- Suggested: Algebra I or Algebra I concurrent

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 waves, forms of energy (light, sound, etc.), ecosystems, genetics, pollution (air, water, land) and agricultural topics.

SCIENCE 9 G	1 Year	1 Credit	Grade 9
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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 waves, forms of energy (light, sound, etc.), ecosystems, genetics, 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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- Prerequisite: 85% or higher in Science 9 CP **OR** 93% or higher in Science 9 G. 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/DE w/ANATOMY	1 Year	1-1/2 Credits	Grades 11-12
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This is a dual enrollment course with Keystone College.

- Prerequisite: Biology CP or recommendation by instructor.
- Prerequisite: Grade of 85% or higher in Biology 1.
- Participation in lab is required.
- Good lab techniques and study skills are required.

This course provides in depth coverage of topics covered in Biology 1. Topics include: biochemistry, cell, cellular respiration, photosynthesis, cellular reproduction, genetics, gene expression and biotechnology, evolution, 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.

Bio 2 is offered as a dual enrollment course through Keystone College for 8 credits

CHEMISTRY G

1 Year

1 Credit

Grades 11-12

This course is designed to introduce students to limited math chemistry applications in their everyday life. In an effort to make the information more relevant, the direction of the course will be student driven by allowing choice for units covered. Unit options include water purification and resources, periodic table, why does popcorn pop (heat and temperature), chemical reactions, acids and bases, food chemistry.

CHEMISTRY CP

1 Year

1 ½ Credits

Grade 11

- Student must 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/DE

1 Year

1 ½ Credits

Grades 11-12

This is a dual enrollment course with Corning Community College.

- Prerequisites:
 - Grade of 85% or above in Chemistry College Prep.
 - Algebra 2 or higher.
- Students must purchase a 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. A lab manual and course approved textbook are required and must be purchased by the students. In addition, students taking the course may receive up to 4 college credits.

CHEMISTRY 3 H/DE

1 Year

1 ½ Credits

Grade 12

This is a dual enrollment course with Corning Community College.

- Prerequisites:
 - Passing final grade in Chemistry 2 H/ACE
 - Recommendation of Chemistry 2 teacher

Chemistry 3 H/ACE is the second semester of college chemistry. Topics would include acids and bases, chemical equilibrium, reaction kinetics, precipitation, applications of redox and solubility.

The course follows the curriculum approved by Corning Community College as an ACE course (CCC Course # CHEM 1520 General Chemistry II. A lab manual and course approved textbook are required and must be purchased by the students. In addition, students taking the course may receive up to 4 college credits.

PHYSICS H

1 Year

1 Credit

Grades 11-12

- 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 Houghton Mifflin Harcourt 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, light, electricity, and magnetism 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

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.

This is a dual enrollment course with Lackawanna College.

BIOLOGY OF ORGANISMS CP/DE - CLASSIFICATION OF LIVING THINGS	1 Year	1 Credit	Grades 10-12
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- Prerequisites:

- Biology with an average of at least 85%.

- 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 in-depth coverage of 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. This is a content heavy course. Students planning on furthering their education in biological and medical related fields are encouraged to enroll in this course. Lab activities include microscopic and macroscopic observations, as well as various dissections during the 3rd and 4th marking periods.

Bio of Organisms is offered as a dual enrollment course through Keystone College for 4 credits.

HUMANITIES

FOUNDATIONS OF EDUCATION H/DE	1 Year	1 Credit	Grades 11-12
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This is a dual enrollment course with Corning Community College.

Designed to help the student understand the aims of public education in our society as well as the philosophical, economic and social bases of our educational system. This course will acquaint the student with some of the current trends in education, popular myths about the teaching profession, and the roles, responsibilities, problems and concerns of teachers.

- Curriculum reflects Corning Community College's requirements for EDUC 1010.
- GPA of least an 85%, especially in English.
- Text: Ornstein Foundations of Education 13e

Successful completion could earn 3 college credits

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. It is recommended that students who study French 2 attain a test/quiz average of 70% overall in French 1.

FRENCH 3 CP	1 Year	1 Credit	Grades 10-12
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Students, without exception, must have achieved a final average of 90% or higher in French 2, and have been recommended by the instructor.

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.

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 10-12
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Spanish 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. It is recommended that students who study Spanish 2 attain a test/quiz average of 70% overall in Spanish 1

BUSINESS

WORKPLACE EXPERIENCE	1 Year	2 Credits	Grades 11-12 ONLY
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- Can be done at the start of the day, end of the day, or during school hours.
- Is a numerical grade and will be calculated into the GPA as a general level course.
- Attendance, grades and discipline are considerations for acceptance into this course.

This course will give juniors/seniors the opportunity to volunteer during the school day (up to 2 hours every day) in an occupation they are considering for the future or at a site in which they have an interest for the entire school year.

Sites currently include Guthrie Healthcare, Doggy Doo's Boutique, Sayre High School, and Snyder Elementary School. Others may be added at a later date.

The course will give students real-life work experience unable to be gained in the classroom. Students will be taught standards of professionalism and be expected to meet those standards.

PRINCIPLES OF MARKETING

1/2 Year

.5 Credit

Grades 9-12

Have you ever wondered why candy is put in the checkout aisle at the store? Or why are famous people always in commercials?

Principles of Marketing or Consumer Marketing explores foundational marketing concepts relevant to the global economy. By emphasizing how marketing impacts businesses and influences our daily lives, this class introduces real-world skills that students will use in the classroom, the workplace, and beyond.

This course is designed to cover introductory marketing concepts including the fundamental marketing process. Topics will be modern methods, product-promotion process, research and development, personnel and organizations, and channels, and facilities.

Students will have the opportunity to be creative and invent their own widget and apply marketing concepts to it.

This class is a great introduction to marketing and is recommended before Sports & Entertainment Marketing.

ENTREPRENEURSHIP

1/2 Year

.5 Credit

Grades 9-12

The hands-on use of The Teen Entrepreneur is a comprehensive real-world simulation that teaches and reinforces computer applications skills through entrepreneurship concepts. Students are assigned a few projects per class, and they work through them at their own speed. The student will have step-by-step instructions from the teacher as well as printed instructions. This simulation integrates all the Microsoft Office suite, by requiring students to start a real, teen-based business. Students need to have basic knowledge of marketing and advertising, Microsoft Suite programs, and Presentation skills.

Students will learn through projects, ad analysis, presentations, notes, EdPuzzles, interactive games, and teacher lead instruction. Class includes a Fun Friday where students experience guest presenters, movies related to the content we are covering, and games to reinforce learning. Students are expected to participate in discussions, projects and make presentations. Students will earn an employability grade each week. This is based on career needs: being on time to class, technology usage skills, workplace skills, critical thinking skills, personal skills, and interpersonal skills.

Students will be inspired to start their own business while learning business plan writing and computer skills along the way! The in-class project is a food truck.

This class is a great way to prepare for ACE Business Applications and Solutions and extend your learning after taking any of the marketing classes.

SPORTS & ENTERTAINMENT MARKETING	1/2 Year	.5 Credit	Grades 10-12
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This class is looking into the topics of Marketing Research, Target Markets and graphics, Marketing Mix and what is required for businesses, how businesses manage marketing and plan for it financially. If you are interested in exploring your creative side, this class allows a student to create great marketing materials, such as logos, and learn what businesses need from you to succeed. It takes all types for people to make a business work. You just need to identify what your favorite part is and what careers are options for you.

Students will learn through project, ad analysis, presentations, notes, EdPuzzles, interactive games, and teacher lead instruction. Each Friday we have a Fun Friday where students experience guest presenters, movies related to the content we are covering, and games to reinforce learning. Students are expected to participate in discussions and projects. Students will earn an employability grade each week. This is based on career needs: being on time to class, technology usage skills, workplace skills, critical thinking skills, personal skills, and interpersonal skills.

PERSONAL FINANCIAL LITERACY	1 Year	1 Credit	Grade 10
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Personal Financial Literacy focuses on the fundamentals of personal finance, income, spending, saving and investing, risk and insurance, and credit, with a goal to develop individuals who can manage their personal finances. Personal finance is also known as personal financial literacy and financial literacy. The standards are written as grade-banded standards built around the areas below and topics that make up the areas of study.

The following is a broad overview of the issues and topics that will be covered and the desired targets of the course.

- Fundamentals of Personal Finance
- Setting Goals
- Positive Mindset
- Financial Services and record keeping
- Consumer Protection
- Income
- Career Awareness and Exploration
- Employability Skills
- Growth and Advancement
- Personal Interests and Career Planning
- Spending
- Saving and Investing
- Risk and Insurance
- Credit

Class will use resources from various books, online sources, and community organizations. Students will be able to work on the state standards and requirements for graduation in this class by uploading assignments to the Smart Futures online program. Students will learn through project, ad analysis, presentations, notes, EdPuzzles, interactive games, and teacher lead instruction are just a short list. Class includes a Fun Friday where students experience guest presenters, movies related to the content we are covering, and games to reinforce learning. Students are expected to participate in discussions, projects and make presentations. Students will earn an employability grade each week. This is based on career needs: being on time to class, technology usage skills, workplace skills, critical thinking skills, personal skills, and interpersonal skills.

MS OFFICE	1/2 Year	.5 Credit	Grades 9-10
Students will explore computer skills and applications needed on a personal, school/college, and career level. The focus of this course is to provide knowledge and skills associated with Microsoft Office applications including: Word, PowerPoint, Excel, Access and Outlook. Students will create various documents: reports, business letters, tables, databases, spreadsheets and brochures.			
BUSINESS APPLICATIONS AND SOLUTIONS CP/DE	1/2 Year	.5 Credit	Grades 11-12 ONLY

This is a dual enrollment course with Corning Community College.

Communication, decision making, and critical thinking facilitated by the use of software using online tools and word processing, spreadsheets, presentations and databases in a simulated business environment to support other required business courses. This is an ACE class and a local credit class.

This course may be taken for 3 ACE credits through Corning Community College (CCC Course # BUSN 1100).

FYEX 1000 CP/DE – First Year Experience	1/2 Year	.5 Credit	Grades 11-12 ONLY
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This is a dual enrollment course with Corning Community College.

FYEX 1000 First Year Experience Designed to assist first-year students in adjusting to the college environment as well as becoming familiar with strategies for success. A general orientation to the resources of the college, essential academic success skills to better understand the learning process, and career exploration will be covered. This is an ACE class and a local credit class.

Lectures/Discussions/Activities

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

BUSINESS COMMUNICATIONS CP/DE	1/2 Year	.5 Credit	Grades 11-12 ONLY
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This is a dual enrollment course with Corning Community College.

This three-credit-hour course provides the effective techniques for oral and written communications. It will focus on analyzing and writing letters, memos, and business reports. Also, proficiency in language mechanics will be assessed. Great choice to follow up Business Applications! This is an ACE class and a local credit class.

This course may be taken for 3 ACE credits through Corning Community College (CCC Course # BUSN 1030).

ART			
ART ESSENTIALS CP/DE	1 Year	1 Credit	Grades 10-12

This is a dual enrollment course with Corning Community College.

3 credit hours – Meets General Education requirement in Humanities.

This course serves as an introduction to the visual arts, emphasizing the understanding and appreciation of art through a review of the elements and principles of art and design, as well as an examination of two- and three-dimensional art forms, methods, and media. Students will engage with the material through a variety of assessments, including sketchbook assignments, art projects, written responses, and tests. Students are responsible for acquiring their own sketchbook (100 pages preferred) to be used throughout the course.

The course is a rigorous, college-level art class that follows the curriculum approved by Corning Community College as an ACE course (CCC Course # ARTS 1000 Art Essentials). Students taking this course are able to earn 3 college credits.

DRAWING & COMPOSITION I	1 Year	1 Credit	Grades 9-12
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This course includes exploration of key art concepts and advanced visual art problems in a studio setting. Areas covered include the elements of art, drawing techniques, calligraphy, linear perspective, portraiture, opportunities for individual creative exploration, and more. **This class is recommended to be the first studio art class of the art course of study**, as it provides a strong foundation for approaching all art forms. A student sketchbook based on creativity and skill exploration is required and provided. Students will also study art principles, research historical and contemporary art, maintain a digital portfolio to showcase their work, reflect on the

artistic process, and put forth effort each day to make creative progress. Students with a strong work ethic and independent idea generation will succeed.

DRAWING & COMPOSITION II	1 Semester	1/2 Credit	Grades 10-12
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PREREQUISITE: Successful completion of Drawing & Composition (preferably with a final grade of 80 or above).

Building on the first Drawing & Composition course, this class provides more advanced exploration in drawing and compositional techniques. Students will deepen their understanding of the elements of art and principles of design, develop sophisticated skills through intensive practice, and explore new media and artistic concepts. Emphasis is placed on personal expression, visual problem-solving, and composition. A student sketchbook is required (provided). Students will document and reflect on their artistic processes and products. Students who demonstrate a strong work ethic, the ability to generate independent ideas, a deep enjoyment of drawing, and a commitment to refining their drawing skills will excel.

CERAMICS & SCULPTURE	1 Year	1 Credit	Grades 9-12
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Ceramics & Sculpture is designed for all students with a desire to gain knowledge or to improve their skills in three-dimensional art. The course focuses heavily on providing a guided experience in ceramics techniques such as clay hand-building, balancing form and function, and clay wheel throwing. The sculpture components of the course offer adventures in polymer clay, plaster, cardboard construction, and more. Students in this course will also explore and reflect upon modern ceramic and sculpture creations in the art world. They will also document and reflect upon their own creative processes. Students with a strong, independent work ethic who are able to focus on craftsmanship and take their time to build projects will feel very successful in this Ceramics & Sculpture class.

DIGITAL PHOTOGRAPHY	1 Semester	1/2 Credit	Grades 9-12
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- 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 introduces students to the skills of digital photo composition and editing. Students will explore the historical, technical, conceptual, and artistic aspects of the medium. Students will keep a digital photo journal, build an online portfolio, and explore topics such as introductory principles, digital editing, place, portraiture, photojournalism, humor, and storytelling. Strong self-discipline is required for completing assignments outside of class.

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

This course is designed for students interested in learning or improving their painting skills.. Students will explore three main painting media: watercolor, acrylic, and oil. Directed lessons, experimentation, and conceptual exploration will help students develop a personal style. Emphasis is placed on process and technique. The goal is for students to understand the process of painting and develop their own workflow. Art and artist-centered research, reflective writings, and self-evaluations are required in this course. In addition, students will maintain a digital portfolio in order to showcase their work and reflect on personal artistic growth. Students with a strong work ethic, the ability to complete assignments independently, and a talent for generating creative ideas will thrive in this class.

STUDIO ART I	1 Year	1 Credit	Grades 11-12
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- PREREQUISITE: Successful completion of at least TWO art courses from the following list: Drawing & Composition, Drawing & Composition II, Painting, Ceramics & Sculpture, and Digital Photography. Teacher approval 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. Students will develop a digital and physical portfolio, exhibit work in the annual art show, and complete research, idea development, production, and presentation stages. All work must be of an advanced art student quality to be accepted. Independent work is expected, with two graded, polished projects due each marking period. A showstopper final piece is required at the end of the year to highlight personal skills and style. Creative development, practice projects, proposal forms, monthly visual journals, and self-evaluations are required each marking period for artistic enrichment. Juniors may take this course with special teacher permission if they have successfully completed at least 3 art classes and prove to be serious about the in-depth study of art. Students with a strong work ethic, the ability to work independently, and a knack for generating creative ideas are likely to excel in this class.

STUDIO ART II	1 Year	1 Credit	Grade 12
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- PREREQUISITE: High achievement (preferably with a final grade of 90 or above) in Studio Art I and completion of Studio Art I prerequisites. Teacher approval is also required.

Studio Art II is designed for highly motivated seniors focused on advancing their artistic skills and developing a professional-level portfolio. Students will complete both teacher-directed and self-designed projects, with an emphasis on research, concept development, and high-level execution. Three graded projects are due each marking period, and all work must meet professional standards. Students will also present their work in the annual art show. Regular creative development, research, self-evaluations, and visual journaling are required. A final showstopper piece, showcasing the student's unique artistic voice, will be expected at the end of the year.

MUSIC

CONCERT BAND

1 Year

½ or 1 Credit

Grade 9-12

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 three group/private lessons each marking period and held accountable for the condition of all music, instruments, and equipment. **At least one-year previous instrumental experience required OR approval of band director.**

CONCERT CHOIR

1 Year

½ or 1 Credit

Grades 9-12

Concert Choir 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, lesson attendance and some written work. Students are required to own professional black garments as attire for all performances, unless noted.

MUSIC APPRECIATION

1/2 Year

½ Credit

Grades 9-12

This semester-long music class will focus on experiencing music via listening, learning and creating. Students will get to explore playing instruments, singing and listening to and performing different genres of music. Music Appreciation will include types of music and instruments from all around the world and all periods of time. No prerequisites required.

MUSIC HISTORY AND THEORY

1/2 Year

½ Credit

Grades 9-12

Prerequisite: This course requires previous music involvement (marching band, jazz band, concert band and/or choir, Crimson Blues, musicals, Music Appreciation).

In this semester-long course, students will learn foundational skills of music theory, intricacies of composers and musical periods, and general historical context to these musical concepts.

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.

- Limit to 15 students

Wood Technology 1 is designed to educate students in basic woodworking skills with a major focus on shop safety and the correct usage of hand tools, portable electric tools, and power machinery. Basic drawing, design, problem solving, and construction skills will be highlighted throughout the course. Students will have the opportunity to work in teams and individually on various activities and projects. Students will be challenged to think creatively, and technically.

CABINETRY	1 Year	1 Credit	Grades 10-12
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- Prerequisite: Passing Wood Technology 1 and shop teacher approval.
- **Daily Requirements:**
- Cooperation and participation.
- 15 Student Cap

The cabinet maker is a highly skilled carpenter. This course is designed to challenge students to think creatively, technically, and to problem solve. This course is meant to build off of the intro level course, students should be familiar with the hand and power tools, and with measurement practices. A strong focus will be placed on design, layout, estimation, measurement, and creativity. Students will be asked to work as part of a team to complete community service projects for the school, or other organizations. Students will also be given the opportunity to design, and build their own heirloom quality piece of furniture. This process will give students a strong knowledge of how furniture, and cabinets are created. Emphasis will be placed on quality, so students should know going into the program that their knowledge, ability, and skills will all be tested.

DESIGN ENGINEERING	1 Year	1 Credit	Grades 9-12
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- **Daily Requirements:**
- Cooperation and participation

- 20 Student Cap

Design Engineering is designed to teach through problem based learning. Students will learn how to work through many different types of problems, in many different contexts. Content will range from structural engineering, aerospace, hydroponics, and basic electronics. Students will

get hands-on experience with the design process, and learn how to keep an engineer's notebook. This course is designed as an introduction to engineering, and therefore we will cover many different topics, and not truly focus on one in particular. There is no background knowledge required. Students will have the opportunity to work in teams, and individually. This would be a perfect course to take for an aspiring engineer.

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.
- Class Size Limit – 12 due to device limitations.

Students will learn career-based training in mechanical drafting and architectural design. The program primarily focuses on AutoCad for mechanical drafting, and Revit for architectural design. Students will also be exposed to traditional drafting techniques and tools. Students will learn how to think technically, problem solve, and much more. Students will learn how to present 3D objects in multi view drawings. Utilizing ANSI (American National Standard Institute) standards for dimensioning, selecting tolerances, line type, and weight. Students will have the opportunity to design and create a multi part product through a set of drawings, and a 3D printed model.

In the second half of the year students will be exposed to house styles and basic house design. With a focus on efficient use of space, materials, and construction techniques. Students will learn how to design and create effective site plans, foundation plans, floor plans, elevations, furniture plans, elevations, electrical plans, and plumbing plans. Students will learn how various systems (walls, floors, and roof) all work together to create a sustainable structure. Students will have the opportunity to design a complete house of their choosing, which when completed will have all of the required drawings, and a scale 3D model.

By the end of the course students will have a strong foundation in CAD software, that they can continue to build upon if they choose to go on to a higher education program. If students do not plan to continue their education, then they will still be able to utilize the skills they learned in this class, to read blueprints, and architectural drawings. This could be particularly beneficial, if the student ever decides to have a house built or remodeled, or the student wishes to become a machinist, surveyor, or any other career that requires a strong knowledge of technical drawings.

Note: ½ a year spent on mechanical drawing, ½ a year spent on architectural drawing.

COMPUTER NUMERICAL CONTROL (CNC)	1 Year	1 Credit	Grades 11-12
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- Prerequisites: Wood Technology, Computer Aided Design (CAD)
- Class Size Limit – 10 due to machine and time limitations

In this class students will learn how to design for computer numerical control. Students will learn about How CNC works through G Code. Students will learn how to think critically, problem solve, and how to fix problems that arise. Students will learn how to design for CNC routing. This includes designing the parts in a CAD software, then selecting the tooling, and cut patterns needed to have a successful piece. An emphasis will be placed on manufacturing processes, and how we can maximize profits, while minimizing waste. At the conclusion of the course students will have a strong foundation in subtractive manufacturing and will be able to speak confidently about compute numerical control. This type of knowledge can be built upon at a higher level or jump start a manufacturing career for the student.

Students will also develop an understanding of engineering design and how it transforms ideas into products or systems.

HEALTH

HEALTH 11	1 Year	½ Credit	Grade 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

***** **OR** *****

INTRODUCTION TO WELLNESS CP/DE	1 Year	½ Credit	Grade 11
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This is a dual enrollment course with Corning Community College.

This course is a college level course. It will explore and expose students to the knowledge, skills and resources needed to create a balanced wellness lifestyle which will be explored through a variety of interactive and introspective activities. At the conclusion of the course students should be able to:

1. Articulate the philosophy of wellness as a process which encourages self-responsibility and accentuates the positive in self.
2. Identify and describe the six dimensions of wellness and how they relate to their personal lives.
3. Assess their current status within each of the six dimensions of wellness.
4. Develop and implement an individualized wellness plan that includes a philosophy statement, goals and objectives within each dimension, and identifies cultural traps, supportive factors, payoffs and progress indicators for each.

The cost of the book ranges from \$43.25 to \$102.95 based on the format of the book you want.

This course may be taken for 1 ACE credit through Corning Community College (CCC Course # WELL 1000).

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 lifetime individual sports. Swimming, water polo and boating are incorporated into physical education. Student grades are based on participation, effort, written assignments and/or written tests.

FISHING AND BOATING

FISHING AND BOATING	1 Year	½ Credit	Grades 9-12
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The students will learn Fishing and Boating skills. Fishing curriculum will encompass the use of different types of rod and reels (bait cast, spinning, and fly), tackle, bait, and bodies of water. The students will learn how to make their own lures and flies. Boating curriculum will include boat safety, survival techniques, kayak and canoeing skills. Part of this course requires students to get in the Sayre High School pool. The students will be able to obtain a PA Boating License. Pending the school's guidelines there may be a fishing field trip at the end of the course.

FITNESS FOR LIFE

FITNESS FOR LIFE	1 Year	½ Credit	Grades 9-12
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Fitness for Life introduces students to the many different aspects of fitness including nutrition, goal setting, weightlifting, research and fitness testing.

Workouts are created with individual students' needs in mind. Workouts encompass plyometric, yoga, CrossFit, Pilates, core, cardio and other lifetime routines. Fitness for Life takes place in the newly remodeled and updated Fitness Room. **New for '23-'24 (Possible) Nutrition component in remodeled kitchen area. During Nutrition students will learn the benefits of proper nutrient consumption, while designing and making nutritious meals using proper measurements.**

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 OPTIONAL. It is a systematically applied program of practice driving 6 hours and reinforces classroom work. If you are interested in the behind-the-wheel car phase, please contact the Driver's Education teacher directly. Completion of both courses results in reduced insurance rates and a senior license at the age of 17-1/2.

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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. IF A STUDENT FAILS A COURSE, THEY WILL NOT BE ELIGIBLE TO ATTEND VO-TECH.

Northern Tier Career Center

Course Catalog 2025-2026

For additional details, program overview video, and application, visit www.ntccschool.org.

Download the free Northern Tier Career Center app!

NTCC offers opportunities for students to earn college credits in NTCC programs at **NO COST!**

Dual Enrollment: PA College of Tech, Lackawanna College & Luzerne County Community College

1:1 Articulation Agreements: Multiple colleges and trade schools. Details at www.ntccschool.org

SOAR: 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 students for High Priority Occupations which are tomorrow's high demand and high wage careers. Students in SOAR programs may qualify for FREE college credits at institutions in PA.

<https://www.pa.gov/en/agencies/education/programs-and-services/instruction/elementary-and-secondary-education/career-and-technical-education/programs-of-study-soal.html>

PROGRAMS OF STUDY

CONSTRUCTION TRADES

Building Construction Trades - 900 hours (Tech Prep)

This program 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 site layout, foundation, and wall construction to roof framing and interior trim.

Industry Credential Opportunities:

OSHA: 10-hour Safety Course, Construction

National Safety Council: Forklift Operator Certification

Penn College Dual Enrollment: BCT 103, 109 & 234 (10 credits offered)

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

This Heating, Ventilation & Air Conditioning (HVAC) program combines classroom and practical learning experiences and prepares individuals to apply technical knowledge and skills to install, repair, and maintain home and business heating, air conditioning, basic plumbing, electrical, and refrigeration systems. Students will gain experience by working on equipment that is used daily in their own homes, such as furnaces, water heaters, electrical appliances, and air conditioning units.

Industry Credential Opportunities:

OSHA: 10-hour Safety Course, Construction

Mainstream Engineering: EPA 608

National Safety Council: Forklift Operator Certification

American Ladder Institute: Single & Extension Ladder, Step Ladder

Penn College Dual Enrollment: ACR 111 (5 credits offered)

HEALTH CARE

Pre-Nursing/Health Assistant - 900 hours

This course is designed for students looking to further their education to become a Registered Nurse, LPN, OT, PT, or in other healthcare related fields. Students are able to advance at their own rate and make individual choices of specific career objectives. Skills are provided for Medical Assistant and Nursing Assistant, with introduction to EKG, Phlebotomy, Occupational and Physical Therapies. After completion of the Patient Care. JOC Approved 11/2024

Technician curriculum, students are eligible to take the certification exam and work in healthcare settings and local hospitals, where cooperative education experiences may be offered.

Industry Credential Opportunities:

National Healthcareer Association: Patient Care Technician

American Red Cross: Community First Aid and Safety, AED Essentials

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

Lackawanna College Dual Enrollment

HOSPITALITY

Culinary Arts/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 selection, purchasing, storage and preparation of ingredients, baking and desserts, restaurant management, and cold food preparation. The restaurant kitchen serves as the preparation laboratory, while the 40 seat Blue Fountain Café at NTCC provides experience in proper front-of-the house operations.

Industry Credential Opportunities:

National Restaurant Association: SERV Safe Manager Certification

ServSafe: Allergen Certification, Food Handler Certification

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 an on-site clinic for classmates, fellow NTCC students, and clients from the community.

Industry Credential Opportunities:

Pennsylvania State Board of Cosmetology: Cosmetologist

***1250 hours** are required by the Pennsylvania State Board of Cosmetology to take the State Board exam. In order to obtain sufficient hours, students will need to enroll in their **10 th grade year**. Summer school is no longer offered for completion of hours.

Teacher Academy/Early Childhood Education – 900 hours

This program provides instruction in the physical, emotional, intellectual, and social development of children. Aspects of teaching and working with children from birth to elementary school age are included, such as health, wellness, safety, growth, behavior, and developmental milestones. Students will learn to attend to children's basic needs, organize activities, develop curriculum, prepare lesson plans, design and manage programs, and effectively deliver instruction in childcare, pre-school, and elementary settings. Theory in this course includes human development, psychology, ethical and professional responsibilities,

communication, and the interaction of child, family, community, and schools. Students will participate in clinical experiences at schools and childcare centers and operate the Little Learners Pre-School Laboratory at NTCC to develop the skills necessary to become successful future teachers and childcare providers while working directly with young children.

Industry Credential Opportunities:

American Red Cross: Community First Aid & Safety, Infant & Child CPR, AED Essentials

University of Pittsburgh: Act 31 Mandatory Reporter

Penn State Extension: Get Started with Center-Based Care

Luzerne County Community College Dual Enrollment

INFORMATION TECHNOLOGY

JOC Approved 11/2024

Information Technology - 900 hours

This program prepares students to apply basic engineering principles and technical skills as they take the first step in pursuit of an IT career in cloud computing, network administration, mobility, security systems administration, programming, database management, and/or continuing education at a post-secondary institution. Taking a broad-spectrum approach, students will learn basic computer design and maintenance, security, networking, operating systems, IT operations, hardware and software problem diagnosis, troubleshooting, technical support, and web design. Students will gain the foundational knowledge and skills necessary to successfully pursue the post-secondary training and education that is required for most entry-level positions in IT.

Industry Credential Opportunities:

Computing Technology Industry Association (CompTIA): IT Fundamentals, A+ Certification

Test Out: IT Fundamentals Pro, PC Pro

MANUFACTURING

Welding & Fabrication Technology - 900 hours

This program is taught in a simulated work environment to help develop hands-on experience, along with equipment and laboratory safety skills and theory. 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:

American Welding Society: Level 1 Entry Welder Training

CareerSafe: OSHA: 10-hour Safety Course

National Safety Council: Forklift Operator Certification

Penn College Dual Enrollment: WEL109, WEL142, WEL146 (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, 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:

Pennsylvania Department of Transportation: Certified Safety Inspector Cat I, Cat II, Cat III

Mobile Air Conditioning Society Worldwide: Section 609 Certification for Refrigerant Recycling & Recovery
Valvoline: Motor Oil Certification

Collision Repair Technology/Auto Body - 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:

Pennsylvania Department of Transportation: Certified Safety Inspector Cat I, Cat II, Cat III

Environmental Protection Agency: 6H Certification

ICAR: Non-Structural (14 certifications available)

Diesel Mechanics Technology - 900 hours

JOC Approved 11/2024

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. Instruction in diesel engine mechanics, suspension and steering, brake systems, electrical systems, preventative maintenance inspections, drive trains, HVAC systems, and auxiliary equipment installation and repair is included.

Industry Credential Opportunities:

Pennsylvania Department of Transportation: Certified Safety Inspector Cat I, Cat II, Cat III

Bendix: Brake Certification; MGM: Brake Certification

Valvoline: Motor Oil Certification

Mobile Air Conditioning Society Worldwide: Section 609 Certification for Refrigerant Recycling & Recovery

Penn College Dual Enrollment: DSM 119 & DSM 141 (4 credits offered)

DIVERSIFIED OCCUPATIONS – One Year, Seniors Only

This opportunity is available to SENIORS who are not enrolled in another NTCC program and allows students with specific career objectives in pathways that are not offered at NTCC to gain related experience for credit.

Students complete theory classes through NTCC, including employability, career development, workplace readiness, technical skills, and safety. Students complete their remaining hours (minimum 15 hours per week) through paid part-time on-the-job experience at training sites, where they will develop skills in accordance with their individual training plans. Students will complete the NOCTI: 21st Century Skills for Workplace Success.

Industry Credential Opportunities:

CareerSafe: OSHA 10-hour Safety, Employability Skills

National Safety Council: Forklift Operator Certification

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, including English Language Learners.

<https://www.pa.gov/en/agencies/education/programs-and-services/instruction/elementary-and-secondary-education/career-and-technical-education.html>

The Northern Tier Career Center is an equal opportunity education institution and does not discriminate on the basis of race, color, age, creed, religion, sex, sexual orientation, ancestry, national origin, marital status, pregnancy or handicap/disability, or genetic information in its activities, education programs, or employment practices as required by Title VI, Title IX, Section 504, and JOC Policies. For more information, contact the Title IX and Section 504 Coordinator: Administrator of Educational Services; 120 Career Center Lane, Towanda, PA 18848; (570)265-8111; titleix@ntccschool.org.

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 topics often include: conservation, engineering, forensic science, law enforcement, health care careers, education, and psychology and social work.

Career/Classroom Speakers – A speaker from a particular career field presents to either a class or various groups of students. Speakers share their expertise to enhance curriculum or to help further a student’s career research.

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.

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 Support with recommendations for online resources for promoting career awareness, exploration and choices.

Mrs. Sassman – ssassman@gstbooces.org
Career Development Council
