

# **Wellsboro Area High School Course Reference Guide**



**2024-2025**

The Wellsboro Area School District is an equal opportunity education institution and will not discriminate on the basis of race, color, national origin, sex, handicap, or limited English proficiency in its activities, program or employment practices as required by Title VI, Title IX and Section 504.

For information regarding civil rights or grievance procedures and information regarding services, activities, and facilities that are accessible to and usable by handicapped persons, contact Alanna Huck, Title IX/Section 504 Coordinator, 227 Nichols Street, Wellsboro, PA 16901.

The above policy applies to all programs of the Wellsboro Area School District, regardless of the source of funds, and this policy is specifically operationalized in the school district's counseling program, course selection process, and testing program.

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The Wellsboro Area School District is in compliance with Section 438 of the General Education Provisions Act, which pertains to the Family Education Rights and Privacy Act.

Educational records for all Wellsboro Area School District students are maintained according to the Educational Records Policy, which sets forth specific procedures to safeguard the confidentiality of student records.

Parents and eligible students are hereby notified of their right to inspect, copy, and request to amend the students' records according to the guidelines of the policy. Those interested in doing so should contact the students' principal or guidance counselor for an appointment.

The records policy is on file in the superintendent's office, the principals' offices, and the guidance counselors' offices, and may be inspected by appointment during school hours.

#### Career and Technical Education Programs Appeals Procedure

If for any reason a parent disagrees with a career and technical program and/or procedure they should get in contact with the guidance office to set up a meeting with the Career and Technical Education Advisory Committee to discuss the problem. If they are not satisfied with what is being told, they may set up a meeting with the Principal. After meeting with the Principal and they are still dissatisfied, they should contact the Superintendent concerning this problem. If they are still dissatisfied they should get in contact with the Pennsylvania Department of Education Career and Technical Education Department at PDE at 333 Market Street, Harrisburg, PA 17126 or call them at (717) 783 – 6788.

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## INTRODUCTION

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Wellsboro Area High School Course Reference Guide is provided for students, parents, and educators as a guide for course selections made by students during their high school careers. The guide includes courses that are available to all students, descriptions of those courses, prerequisites for taking certain courses, and example sequences within certain curriculum areas. These example sequences are intended only as models for students to examine as they make their choices. Students are asked to choose 8 credits each year in order to meet the 27 credit requirement by the end of their senior year.

### USING THE REFERENCE GUIDE

Students should 1) read the descriptions of courses they are interested in, 2) gather information from counselors and teachers regarding the courses, and 3) make their selections during registration following the directions on the portal. As these selections are made, careful consideration should be given to academic preparation, student interest, career interests and prerequisite courses. 4) Students then print their selections and sign them and return to the teacher listed in the instructions. At any time if the student has questions about course selections their school counselor and teachers are available to answer them.

### SCHOOL COUNSELORS

Below are the emails of the school counselors and what names they work with. Please feel free to email or call them at 570-724-0325 with any questions throughout this process.

#### **Mr. Matthew Rendos**

(students with last names that begin with A- L)

[mrendos@wellsborosd.org](mailto:mrendos@wellsborosd.org)

#### **Mrs. Tanya Harmon**

(students with last names that begin with M-Z)

[tharmon@wellsborosd.org](mailto:tharmon@wellsborosd.org)

### Schedules

Schedules are mailed home in June and students then can make appointments with their school counselor to make necessary changes. We ask that all changes be done by August 1, 2024. A list of dates and times the counselors are available during the summer will be enclosed with the schedule.

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## **CREDIT REQUIREMENTS**

All students are required to schedule and take **8 credits each year**. The following chart defines credit requirements for all students:

<b>COURSE</b>	<b>CREDIT</b>	<b>COMMENT</b>
English	4	Every Student, Every Year
Math	4	
Science	4	
Social Studies	4	
Arts/Humanities	2	Intro to Art (.5), Music Elective (.5)
Health/Physical Education	2	Health in 11th grade
Personal Finance	.5	Required for all 11th graders
Electives	6.5	

### **Credit Requirements- Class Level**

<b><u>10th</u></b>	<b>7</b>
<b><u>11th</u></b>	<b>14</b>
<b><u>12th</u></b>	<b>21</b>

### **Course Rotations**

Starting with the 24-25 school year we are going to be rotating some courses on an even/ odd rotation to help smooth out some scheduling issues and allow for better planning of course sequence for students. Even or odd years are determined by the first number of the school year. For example 2024-2025 will be an EVEN year and 2025-2026 will be an ODD year.

### Valedictorian/Salutatorian Requirements

If you are competing for the Valedictorian and Salutatorian honor, you **MUST** have taken the following courses to be eligible for

Class of 2025 and 2026

English	Math		Social Studies	Science
9 Honors	Algebra 2	Geometry	Honors World History	Foundations of Science
10 Honors	Geometry	Pre-Calc	Honors American History	Keystone Biology
11 Honors	Pre-Calc	AP Calc AB	Honors Government or AP Government	Chemistry
AP Literature and Comp	AP Calc AB	AP Calc BC	Need 1.0 credit of the following Sociology (.5) AP Psychology (.5) Dual Enroll Psychology (1.0)	Honors Physics or AP Physics

Class of 2027

English	Math		Social Studies	Science
9 Honors	Algebra 2	Geometry	Honors World History	Earth Science
10 Honors	Geometry	Pre-Calc	Honors American History	Keystone Biology
11 Honors	Pre-Calc	AP Calc AB	Honors Government or AP Government	Chemistry
AP Literature and Comp	AP Calc AB	AP Calc BC	Need 1.0 credit of the following Sociology (.5) AP Psychology (.5) Dual Enroll Psychology (1.0)	1.0 of Advanced Science AP Environmental AP Physics Honors Physics Advanced Chemistry Advanced Biology

**Weighted GPA-** Weighted GPA will begin with the class of 2028

**AP/ Dual-** 1.05 multiplier to all courses with this designation

**Honors-** 1.03 multiplier to all courses with this designation

**Advanced Placement (AP):** AP courses are offered in 11th and 12th grades and those wishing to take the Advanced Placement test must pay a fee, roughly \$97.00. Financial aid may be requested.

**Dual Enrollment (DE):** There will be three options for Dual Enrollment at WAHS this year. There are specific criteria that students need to meet in order to be eligible to take these courses. Dual Enrollment courses have a fee structure associated with them if the student desires college credit. If interested in any of these courses, please contact the guidance office. Financial assistance is available, please let the guidance office know if assistance is needed. Or DE costs are covered by the district for students in good standing.

**Lackawanna College:** credit offered at a reduced tuition rate, juniors and seniors may elect to take these courses, these courses will be scheduled into their high school schedule. Payment is required by the first day of school for students enrolling in these courses. If payment is not received within the first 10 days of the course, the student will be removed from the course. Courses that are taken through Lackawanna College will be taught at Wellsboro Area High School by Wellsboro Area High School faculty that have been approved as adjunct faculty by Lackawanna College.

**Commonwealth/ Mansfield University ESP Program:** credit offered at a reduced tuition rate, juniors and seniors may elect to take these courses, these courses will be scheduled into their high school schedule. The student will be responsible for the balances of the tuition and fees and meeting university payment deadlines. Students must register through MU and their online system. An information sheet can be obtained through the guidance office. These courses are subject to change based on Mansfield University offerings. Emails are sent to students when courses are available and signups are done online through Mansfield. Mansfield then notifies us of students who are taking courses.

**Pennsylvania College of Technology PENN NOW Program:** Penn College NOW students earn secondary credit and transcribed, tuition free college credit concurrently. Qualified, approved secondary teachers work with Penn Now faculty to deliver courses. Penn Now is available to juniors and seniors with the recommendation of the guidance counselor which will help students register at Penn NOW. The dual enrollment opportunity saves tuition, time, builds confidence with college coursework and prepares students for college.

## Glossary

### **College Athletic Eligibility**

Student athletes who want to practice and play sports their freshman year in a National Collegiate Athletic Association (NCAA) Division I or Division II College must satisfy the initial requirements of the NCAA. The NCAA adopted new standards for core courses and academic eligibility. It is essential to discuss these requirements with your respective guidance counselor. The guidance office will have a comprehensive list of approved courses if you have interest in participating in NCAA athletics. For further details about the conditions for initial eligibility, refer to one of the following web sites: [www.ncaa.org](http://www.ncaa.org)  
[www.eligibilitycenter.org](http://www.eligibilitycenter.org)

**Independent Study:** The Wellsboro Area School District policy regarding Independent Study is School Board policy #118. The policy states: The board will consider approval of a course of independent study for a properly qualified student as recommended by the Superintendent in order that such students may

- extend the learning experience outside the classroom
- develop judgment and self-reliance in the conduct of their learning experience
- use community resources in their educational program
- include a greater variety of learning experiences within the educational program
- explore an area of particular interest with certified teacher
- achieve personal goals
- learn to base conclusions on research

**Audit:** Students wishing to participate in band or chorus may attend class once every six days. Students will receive a participation grade; however, no credit will be received.

**Career and Technical Education Curriculum:** The Career and Technical Education Curriculum will prepare students for a smooth transition from our secondary CTE program into a postsecondary education program of study. Students are encouraged to take courses that challenge them and lead them on a pathway to postsecondary success. Technical sequences will meet the minimal technical core area competencies of articulated postsecondary institutions.

**Career Pathways Curriculum:** The purpose of this curriculum is to provide student exposure to and training for various careers. Within this curriculum are various career pathways along with the capability of taking core area courses. The various career pathways are: Business Education, Industrial Technology, Industrial Trades, Home Economics and Aviation.

**Advanced Placement (AP):** AP courses are offered in 11th and 12th grades and those wishing to take the Advanced Placement test must pay a fee, roughly \$97.00. Financial aid may be requested.

**Dual Enrollment (DE):** There will be three options for Dual Enrollment at WAHS this year. There are specific criteria that students need to meet in order to be eligible to take these courses. Dual Enrollment courses have a fee structure associated with them if the student desires college credit. Financial assistance is available, please let the guidance office know if assistance is needed. OR DE costs are covered by the district for students in good standing.

**Lackawanna College:** Credit offered at a reduced tuition rate, Juniors and Seniors may elect to take these courses, these courses will be scheduled into their high school schedule. Payment is required by the first day of school for students enrolling in these courses. If payment is not received within the first 10 days of the course, the student will be removed from the course. Courses that are taken through Lackawanna College will be taught at Wellsboro Area High School by Wellsboro Area High School faculty that have been approved as adjunct faculty by Lackawanna College. See guidance for course listings.

LC Dual Enrollment Course Registration Form: 1 page

**Concurrent Courses offered at WAHS with WAHS instructors**

Course Code	Course Name	University
8251	Intro to Psychology	Lackawanna
8359	College Algebra	Lackawanna
8157	College Writing	Lackawanna
8548	Elementary Spanish	Lackawanna



**Commonwealth/ Mansfield University ESP Program:** credit offered at a reduced tuition rate, juniors and seniors may elect to take these courses, these courses will be scheduled into their high school schedule. The student will be responsible for the balances of the tuition and fees and meeting university payment deadlines. Students must register through MU and their online system. An information sheet can be obtained through the guidance office. These courses are subject to change based on Mansfield University offerings. Emails are sent to students when courses are available and signups are done online through Mansfield. Mansfield then notifies us of students who are taking courses. Course listings available online. See guidance for course listings.

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PCT Dual Enrollment Course Registration Online

**Concurrent Courses offered at WAHS with WAHS instructors**

Course Code	Course Name	WAHS Course	College
BCT103	Construction Hand & Power Tools	Carpentry Construction 3	Penn College
EET124	Engineering Technology, & Society	Engineering 2	Penn College
FHD118	Sanitation	Culinary 2	Penn College
HRT101	Introduction to Ornamental Horticulture	Plant Science 1 or 2	Penn College
MTR104	Medical Terminology	Medical Terminology	Penn College

**Honor Roll**

Distinguished Honor Roll and Honor Roll will be determined using the student's 9-week grades in each course. The grade reported in percentage form for each course will be multiplied by its credit value. These products will be added together and then divided by the total number of credits. This quotient will be the GPA percentage. Any student receiving a score equal to or below 76.999% in any course is not eligible for the Distinguished Honor Roll or Honor Roll. Students earning the classification of Distinguished Honor Roll must have a GPA percentage of 93 or greater. Students earning a classification of Honor Roll must have a GPA within the range of 85% and 92.999%.

**Accelerated Graduation:** Accelerated graduation is possible for students who desire an intense schedule with early graduation as their goal. This is accomplished through advanced planning with the approval of the administration and the support of parents, teachers, and guidance counselors. Candidates for the accelerated graduation are expected to maintain a grade point average of 3.0 with no failing grades in any subject and proficiency or advanced on the Keystones.

## Testing Programs

### **KEYSTONE LOCAL ASSESSMENT**

All students are required to take the Keystone exams in Algebra 1, Biology, and Literature at the completion of the course. All students must be done testing by the end of their junior year.

### **PSAT:**

The PSAT/NMSQT is the Preliminary SAT/National Merit Scholarship Qualifying Test. The PSAT is a great primer for the SAT, and even the ACT, but it's more than just a trial run. PSAT scores are used to identify National Merit Scholars and award merit scholarships. More than 3.4 million high school students (mostly juniors and sophomores) take this nationwide, multiple-choice test every year.

### **SAT:**

The SAT is a college entrance examination created by the College Entrance Examination Board. Like the PSAT, the SAT is a standardized test which measures knowledge and skills that have been identified as most important for college and career readiness and success. The SAT consists of 2 sections: Evidence-Based Reading & Writing and Math. A third Essay Section is optional. Each section is given a scaled score ranging from 160 to 760. The SAT is offered seven times annually. Wellsboro Area High School is a test site three times per year in October, January, and March/April. Students can test at other local schools on the other testing days if they choose. The SAT is always administered on a Saturday. A listing of local testing sites and dates is available in the School Counseling Office. Students register for the SAT online at <https://www.collegeboard.org>. A photograph is required for registration. Students must print their admission ticket and have it with them at the time of testing. Students must also have appropriate photo identification even if testing at WAHS. When registering, students should be sure to include the WAHS school code (also called the CEEB code) of 395-135. If a student neglects to give this information, we will not receive their scores.

### **ACT:**

The ACT is a national college admission examination that consists of subject area tests in English, Math, Reading, and Science. They offer Writing as an optional testing category. The SAT is more commonly used in our region; however, either test is typically accepted at most colleges throughout the country. Students sometimes opt to take the ACT to present other strengths not covered on the SAT. Wellsboro Area High School is not an ACT test site; however, it is given nearby for all six administrations. A listing of local testing sites and dates is available in the School Counseling Office. Students must register for the ACT online at [www.actstudent.org](http://www.actstudent.org). A photograph is required for registration. Students must print their admission ticket and have it with them at the time of testing. Students must also have appropriate photo identification when testing. When registering, students should be sure to include the WAHS school code of 395-135. If a student neglects to give this information, we will not receive their scores.

**ASVAB:**

Students in 10th through 12th grade can elect to take the Armed Services Vocational Aptitude Battery (ASVAB). Students sign up through the School Counseling Office. The test is administered once a year at WAHS in November. This assessment measures aptitudes in areas such as word knowledge, arithmetic reasoning, general science, and mechanical comprehension. The ASVAB measures aptitudes that are related to success in different jobs and occupations. The assessment is scored in a manner that informs students of their abilities and readiness to become proficient in ten separate types of activities. ASVAB results are returned to participating students in a feedback session facilitated by a representative from Harrisburg.

An additional part of the ASVAB includes career exploration. The career exploration portion of the ASVAB is especially valuable in that it helps students identify areas for career exploration. The "Exploring Careers" workbook is used with this portion of the ASVAB. This workbook enables the test taker to compare personal interest (established through an interest inventory), with personal preferences, to explore over 200 types of different occupations. This information is utilized to help the student further explore his or her career interests.

**AP Exam:**

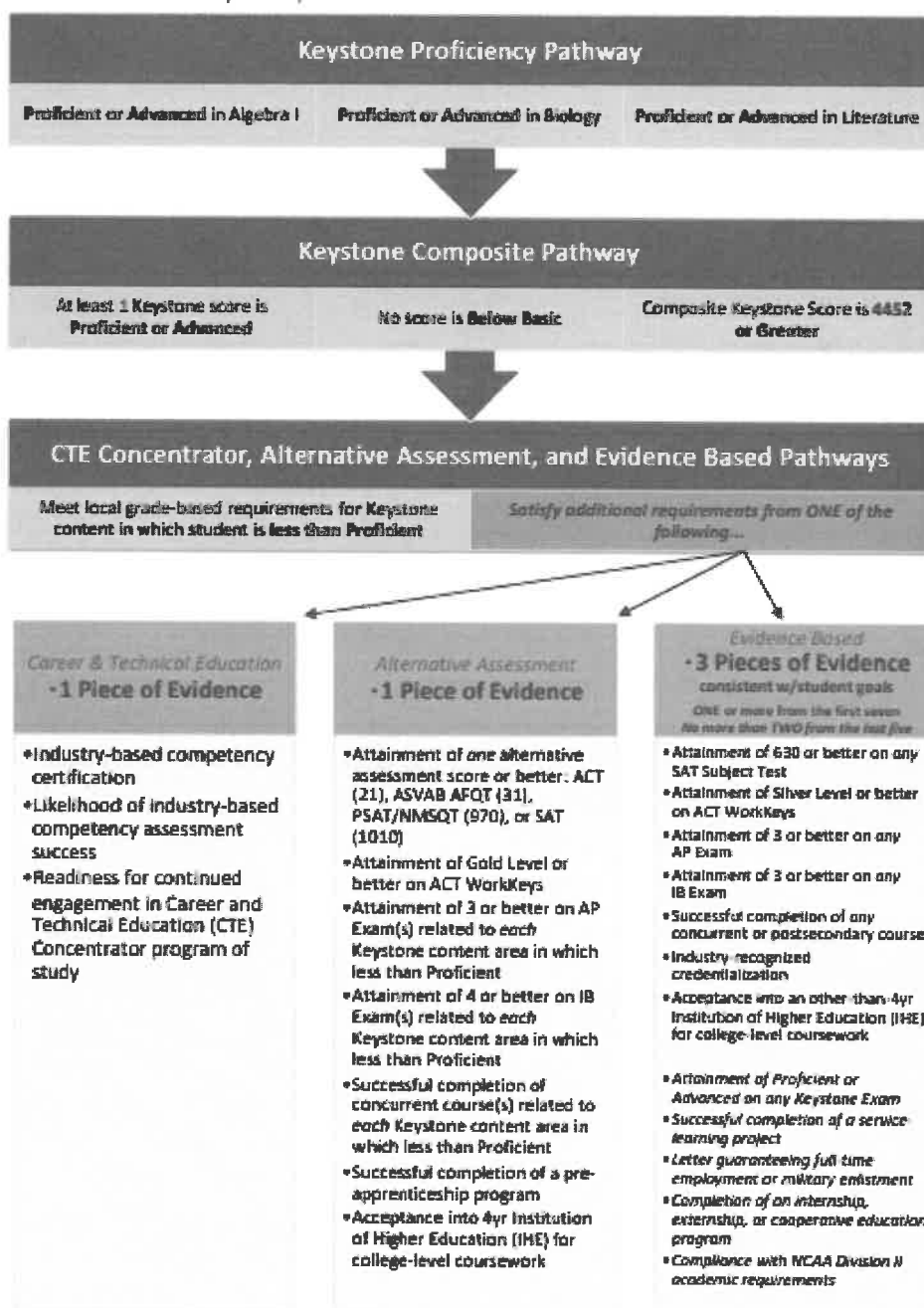
Students in Advanced Placement courses have the option to take the corresponding AP examination at the end of the course. WAHS has AP courses in Chemistry, Physics, English Literature & Composition, Government & Politics: US, Calculus AB, Calculus BC, Psychology and Environmental Science— each AP Exam contains a free-response section (either essay or problem solving) and a section of multiple-choice questions. Each AP Exam is given an overall grade of 1, 2, 3, 4, or 5, with 5 indicating a student who is extremely well qualified to receive college credit and/or advanced placement based on an AP Exam grade. Most colleges require that a student earn a grade of 3 or higher to be considered for college credit. Students are responsible for the cost of the test. The tests are administered in the month of May, during the normal school day. Results of the AP Exams are made available in July. Students are informed of the upcoming test through their AP classroom teacher. Tests are coordinated through the School Counseling Office for those students who opt to test. More information about AP is available at <https://apstudent.collegeboard.org/exploreap>.

**NOCTI:**

The Pennsylvania Department of Education requires that all secondary students concentrating in or completing a career and technical education (CTE) program participate in occupational competency testing. The testing program mandated by PDE is the National Occupational Competency Testing Institute (NOCTI). At WAHS, Carpentry/Carpenter Construction and Culinary Arts, Engineering, Agriculture Mechanics, and General Agriculture must take the NOCTI. Students required to participate are informed by their classroom teacher. In addition, a letter is sent home to parents informing them of their student's participation. Students will have the opportunity to earn a Pennsylvania Skills Certificate, if they score at the Advanced Level on all portions of the exam. Students scoring at the Competent Level will earn a Certificate of Competency. NOCTI testing takes place at the end of April each year.

**Act 158 of 2018**

Provides alternatives to Pennsylvania’s statewide requirement of attaining proficiency on the three end-of-course Keystone Exams (Algebra I, Literature, and Biology) in order for a student to achieve statewide graduation requirements. **Effective with the graduating class of 2023**, students have the option to demonstrate postsecondary preparedness through one of the following pathways



## ENGLISH DEPARTMENT

### 4.0 CREDITS OF ENGLISH ARE NEEDED TO MEET WASD GRADUATION REQUIREMENTS

\*\*\*\* Three selected books are required to be read over the SUMMER for the Honors level and Advanced Placement classes.\*\*\*\*

Grade 9	Grade 10	Grade 11	Grade 12
9 English	10 English	11 English	12 English
9 Honors English	10 Honors English	11 Honors English	Dual Enrollment College Writing and Composition
			AP English/AP Composition

#### **8111                      9 Honors English (1.0 cr.)**

In ninth grade Honors English, students analyze major works of literature from a variety of genres. The ninth grade Honors English course contains literature from around the world, but several units will focus on early American literature in order to better prepare students for their work in 10 English. This course also provides many students with their first chance to read a complete play by William Shakespeare. In addition to the study of literature, students will master skills related to grammar, composition, and vocabulary development. Students are required to complete both individual and group assignments/projects. Students in the ninth-grade honors class must have the recommendation of the eighth grade English teacher, must have earned a 93% average in 8<sup>th</sup> grade English, and must complete the summer reading requirements (available to students at the end of their 8<sup>th</sup> grade year). This study of literature, grammar, vocabulary, and composition during freshman year will help prepare students for the Keystone literature exam, which they will take during their sophomore year.

#### **8113                      9 English (1.0 cr.)**

In ninth grade English, students analyze major works of literature from a variety of genres. The ninth grade English course contains literature from around the world, but there is a focus on early American literature in order to better prepare students for their work in 10 English. This course also provides many students with their first chance to read a complete play by William Shakespeare. In addition to the study of literature, students will review the basic rules of grammar and build on that knowledge by implementing these rules in their compositions. Students will learn to complete assignments and projects individually, in partnerships, and in small groups. This study of literature, grammar, and composition during freshman year will help prepare students for the Keystone literature exam, which they will take during their sophomore year.

**HONORS sections of 10 English will complete summer reading and associated tasks. Students are assigned fiction and nonfiction works to complete by the first day of school. Written work is often submitted electronically during summer or on the first day of school**

#### **8121                      10 Honors English (1.0 cr.)**

A goal of this course is to prepare students for today's advancing society, out of the necessity to equip students with 21<sup>st</sup> century skills for success in the world beyond high school. Using primarily American literature, Civil War through present, this course will help students master emerging content in global awareness, language literacy, technology literacy, financial and economic literacy, collaboration, higher order thinking, innovation, and creativity. Teachers will use a variety of authentic, meaningful and relevant educational experiences to increase student engagement and improve student achievement. Some common methods include inquiry, project, and problem-based learning. Students will work with others on a regular basis and learn new methods of technology to enhance their understanding and to help them share knowledge with peers. Students will prepare for the PA Keystone Literature exam, testing essential skills of reading comprehension and written analysis of both fiction and nonfiction. **REQUIREMENTS:** success in 9<sup>th</sup> grade English course, 9<sup>th</sup> grade teacher recommendation, and completed summer reading and associated tasks (available at the end of 9<sup>th</sup> grade year).

**8127** **10 English (1.0cr.)**

Students will prepare for the PA Keystone Literature exam, testing essential skills of reading comprehension and written analysis of both fiction and non-fiction. A literary focus of American literature, Civil War through present, will help students hone 21<sup>st</sup> century skills and literacies, while better interpreting the world around them. Grammar-in-composition and vocabulary-in-context are other main topics of this course. Longer works may include, but are not limited to: Arthur Miller's *The Crucible* and John Steinbeck's *Of Mice and Men*.

**8131** **11 Honors English (1.0cr.)**

British literature from the Old English period to the twentieth century is surveyed. Several longer works by major authors are analyzed in depth, especially Chaucer, Shakespeare, and the Romantics. Writing will be stressed, with an emphasis on sentence structure, grammar and the art of the essay. In particular, the college essay will be studied and practiced. Annotated bibliographies will be introduced. Speech opportunities include discussions, oral interpretations, and dramatic presentations. The Honors' curriculum includes a summer reading component as well: generally two or three texts written by British authors will be studied, and the texts will be accompanied by a writing assignment.

**8137** **11 English (1.0 cr.)**

This class will feature English literature from the Old English period to the Middle English period for analysis. To do so, the class will begin by learning reading/educational strategies for encountering any difficulties in understanding. In addition, longer literary works of major authors are studied. Some American authors will be utilized as they fit into the standards. For example, the poems of Emily Dickinson provide excellent opportunities to learn and practice reading strategies. Other works will include (but not be limited to) the *Anglo-Saxon* poets, *The Canterbury Tales*, and *Macbeth*. The composition elements include some creative writing (poems/producing similar texts to what we read), the paragraph, and then we will cover writing that students will be expected to use in the coming year (emails, cover letters, resumes...)

**8148** **12 English (1.0 cr.)**

Writing, literature, and vocabulary development will be stressed during this college preparatory course. Instruction in writing will cover the following: a review of the purpose and structure of expository, narrative, descriptive, and persuasive writing; utilization of the writing process; improving word choice; the use of parallel structure, transitions, active and passive voice; and the identification and elimination of problems in writing. In addition to essay writing, students will identify and complete the steps in writing and revising a ten-page research paper that follows APA guidelines. This paper will include an outline, bibliography and internal citations. Literature will be studied with emphasis on comprehension and enjoyment.

**Students taking AP English courses are required to take the exam that follows the instruction. The students must pay (\$97 or more) for the exam prior to the start of the class. Financial aid may be requested.**

**8142** **AP English - Grade 12 (1.0 cr.)**

**8143** **AP Composition – Grade 12 (.5 cr.)**

*Advanced Placement English Literature and Composition* is a demanding college-level course for highly interested and motivated students in the 12<sup>th</sup> grade. This course will stress critical reading, analytical writing, and intellectual class discussions on a daily basis. Emphasis will be placed on critically reading various genres that have appeared on past AP exams and how to write coherent analyses of the works studied in the course. This class requires a commitment from the parent, student, and teacher in order to meet the goals and objectives outlined by the College Board, and students are expected to be thoroughly prepared each day and to satisfactorily complete all assignments by their given due dates. There will be a very high workload in this course (including daily extensive reading and writing assignments), so students need to consider this if they are involved in several activities or have a job. This course intends to prepare students for any college literature and writing courses they may take in the future. Please visit the College board's Website ([www.collegeboard.com](http://www.collegeboard.com)) to learn more about the AP Literature and Composition Exam.

**8152 Creative Writing – Grades 10-11 (.5 cr.) EVEN YEARS**

In this writing workshop course, students will develop writing skills by responding to a number of unique prompts to create short stories, essays, poetry, plays, etc. Emphasis will be on the writing process, including peer reviews and revising, in order to produce the best possible final draft. Students will work on writing informational and fictional Students who wish to become involved in a writing project and to improve their writing skills will find this course useful and instructive.

**8157 Dual Enrollment College Writing- (Lackawanna) Grade 11, 12 (1.0 cr) ODD YEARS**

This is a real college course for real college credit. This program introduces you to the writing that you will encounter in a freshman college composition course. After passing all the requirements for this class, credit from Lackawanna College, could be applied to the university of your choice. This course will familiarize you with the academic writing process to aid in developing clear, thoughtful essays in standard academic form. The course’s culminating activity will be a properly organized, fully documented research paper.

**8157MU Dual Enrollment College Writing - Grade 11,12 (1.0 Cr) EVEN YEARS**

College Writing is primarily a composition course. Throughout the semester, students will write five complete essays of various styles, including one research paper that will involve process steps and checks, including a proposal, annotated bibliography, outline, rough drafts, and a final copy. This course will cover a wide range of skills necessary for college-level work including elements of argumentation, sentence structure issues, paragraph structure, and essay organization. In addition, students will engage in lively class discussions and peer editing workshops. Students will also share their writing with the instructor through one-on-one conferences. This course will be Writing 103 from Commonwealth University.

**8156MU Dual Enrollment College Literature- Grade 11,12 (1.0 Cr) EVEN YEARS**

College Literature will focus on a variety of genres across multiple texts. Throughout the semester, students will read fiction, poetry, drama, and creative nonfiction. Students will master comprehension, use evidence to conduct in-depth literary analysis, and respond critically to readings of different historical and cultural contexts through class discussion and written evidence-based literary arguments. This course will be English Literature 151 from Commonwealth University.

**SOCIAL STUDIES DEPARTMENT**

**4.0 CREDITS OF SOCIAL STUDIES ARE NEEDED TO MEET WASD GRADUATION REQUIREMENTS**

Grade 9	Grade 10	Grade 11	Grade 12
		Government & Economics	AP Government
World History	American History	Honors Government & Economics	AP Psych
Honors World History	Honors American History	AP Government	Additional Courses
			Additional Courses

Social Studies Additional Courses:

Sociology (0.5cr)  
Applied Psychology (0.5cr)  
Film & Society (0.5cr)

Crimes, Criminals & Courts (0.5cr)  
Justice Education (0.5cr)  
AP Psychology (0.5cr)

Sports & Social Sciences (0.5cr)  
Dual Enrollment Psychology (1.0cr)

**8213 World History (1.0 cr.)**

The Mission of the Wellsboro Area High School 9th Grade World History course is to facilitate inclusive and rigorous classrooms of independent learners who use inquiry of World History to discover, investigate, and connect to issues in the 21st century. We'll look at World History (1750- Modern Era). Each unit will be focused on a common theme running throughout the 9 weeks connecting world events to a common/connected concept. We hope to inspire our students to become leaders who apply lessons from our past to creative problem solving for a better future!

**8209 Honors World History (1.0 cr)**

The Mission of the Wellsboro Area High School 9th Grade World History course is to facilitate inclusive and rigorous classrooms of independent learners who use inquiry of World History to discover, investigate, and connect to issues in the 21st century. We'll look at World History (1750- Modern Era). Each unit will be focused on a common theme running throughout the 9 weeks connecting world events to a common/connected concept. We hope to inspire our students to become leaders who apply lessons from our past to creative problem solving for a better future!

**8227 American History (1.0cr)**

The mission of the Wellsboro Area High School 10th Grade American History course is to facilitate inclusive and rigorous classrooms of independent learners who use inquiry of US History to discover, investigate, and connect to issues in the 21st century. We'll look at US History (1750-Modern Era). Each unit will be focused on a common theme running throughout the 9 weeks connecting world events to a common/connected concept. We hope to inspire our students to become leaders who apply lessons from our past to creative problem solving for a better future!

**8221 Honors American History (1.0cr)**

This course is designed to analyze and discuss American history and culture from 1770 to the present. The class will not be focused upon memorizing small details of history but rather looking at the "big picture" of each time period. This class will be broken down into eight separate units focusing on different concepts throughout United States history. Each unit will conclude with an assessment of your knowledge. Throughout the semester you will need to focus upon events of the past and understand the impact that those events have on your life today. This course is also focused upon developing your critical thinking skills, and you will be asked to both share and defend your opinion throughout the semester. Honors students will be asked to do homework on a regular basis and will also write an extended amount in this class. The writing will take a variety of forms from short journals to an extended research paper. Honors American History is a fast-paced class, and it requires you to put forth your best effort and use your class time wisely each and every day. Prerequisite for the course is a 90% GPA for the previous school year in the Social Studies curriculum. This course is an alternative for American History 8227.

**8235 Honors Government & Economics (1.0 cr.)**

This course is designed for the student with an in-depth interest in the working of our American Government at the national level. The course will examine, from an analytical perspective, the institutions, participants and processes that characterize the nature and function of the American political system. The course begins with the study of political power, the Constitution and federalism. It continues with the exploration of our political culture, political parties, the election process, interest groups and the media. We will also examine the workings of the legislative, executive and the judicial branches of our federal government from their inception to the present. We will also discuss the major civil rights and civil liberties issues as well as the controversies in U.S. foreign policy that helped to shape our modern American political thought. It will also provide an overview of economic concepts, models and terminology. Economics is the study of how resources are allocated in various economic systems, and explores various types of businesses and how the banking system operates. Prerequisite for the course is a 90% GPA for the previous school year in the Social Studies curriculum. This course is an alternative for Government 8231.

**8233 AP Government - (1.0 cr.) SUMMER WORK INCLUDED **ODD YEARS****

AP United States Government and Politics is a college-level introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students will read and analyze U.S. foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions between political institutions and behavior. They will read and interpret data, develop evidence-based arguments, and engage in an applied civics or political research-based project. Students will take the AP Government Exam given in May of each year. If the exam score is high enough, the student may receive credit for the course by a participating college. Prerequisite:



Students must have a 93% GPA for the previous (Freshman/Sophomore) school year in the Social Studies curriculum.

**8231 Government & Economics (1.0 cr.)**

This course covers the structure and functions of the federal government—executive, legislative, and judicial branches—through examination of the Constitution and its limits on the power of the federal government. Students will also become familiar with state and local government, particularly Pennsylvania government. Students will learn how informed, involved citizens can affect the quality of government. Current events are used to demonstrate how the theories of government are applied outside of the classroom. It will also provide an overview of economic concepts, models and terminology. Economics is the study of how resources are allocated in various economic systems, and explores various types of businesses and how the banking system operates.

**8243 Sociology – Grades 11, 12 (.5 cr.) ODD YEARS**

Sociology is the scientific study of human society and social interactions. This course is designed to help students analyze the effects of society on the group, as well as the group's effect on society. Emphasis is placed on contemporary social issues that influence us individually, societally, and culturally. Some major topics of study include gender, culture, socialization, group dynamics, race, countercultures, and various sociological concepts that arise in current events. The course takes an applied approach to the study of sociology so that the student has an opportunity to "see" these concepts in his/her everyday life.

**8244 Applied Psychology – Grades 10, 11, 12 (.5 cr.)**

Psychology is the study of human behavior and mental processes. In this introductory applied course, a variety of topics are presented including memory, learning, personality, stress and coping, hunger/eating, sleeping/dreaming, psychological disorders, social behavior, and other related issues that arise in current events. Many misconceptions about psychology are identified and corrected. The course takes an applied approach to the study of psychology so that the student can "see" these concepts in his/her everyday life.

**8246 Justice Education – Grades 11, 12 (.5 cr.) EVEN YEARS**

This is an introductory course into our legal system, focusing primarily on criminal law. Areas of emphasis in the criminal area include crimes against the person, property crimes, criminal defenses, and criminal procedures. Current events related to the criminal justice system are also a major focus. An additional part of the course is a voluntary program for students to accompany an officer of the Wellsboro Police Department on a two-hour "Ride Along," as well as a field trip to the Tioga County Courthouse, Emergency Communications Center, and Tioga County Prison.

**8251 Dual Enrollment Psychology – Grade 11,12 (1.0 cr)**

Students enrolled in Dual Enrollment Psychology have the potential to receive both high school and college credit if the course is completed successfully. DE Psychology will be structured as a college-level introductory course with higher expectations for independent study. Course topics will include the history of psychology, research methods, memory, learning, personality, lifespan development, social behavior, psychological disorders, mental health therapy/treatment, and others. Scholarly research will also be a major focus of the course.

**8252 AP Psychology - Grade 11,12 (1.0cr)**

The AP Psychology course is designed to continue the systematic and scientific study of behavior and mental processes. Students are exposed to additional concepts within psychology including motivation, emotion, stress, intelligence, cognition, sensation and perception. A significant portion of the course involves a comprehensive review and AP exam preparation. Students will take the AP test at the end of the course that may lead to college credits depending on score and college/university guidelines. In order to qualify for this AP course, the student must have a cumulative GPA of 90% or the recommendation of previous Social Studies teachers. AP Psychology Part 2 (spring) must be taken in conjunction with Dual Enrollment Psychology/AP Psychology Part 1 (fall).

**8255 Crimes, Criminals and Courts- Grade11, 12 (.5cr) EVEN YEARS**

This course contains elements of all three social science courses –Psychology, Sociology, and Justice Education. It is intended for those students who have a strong interest in the criminal justice system. Topics include but are not limited to the FBI, profiling, the causes of criminal behavior, psychological disorders, insanity, police procedure, criminal investigation, forensics ,and true crime cases. Current events topics and legal and ethical issues in the criminal justice system are also a focus. The course is open to juniors and seniors who have completed one of the social science electives (Psychology, Sociology, or Justice Education) and passed 10th or 11th grade English.

**8239 Sports and Social Sciences – Grade 11,12 ( .5cr.) ODD YEARS**

This course examines a wide variety of social science topics related to psychology, sociology, criminal justice, history, world cultures, and politics using examples from sports/athletics. Topics include but are not limited to the following: race, gender, violence/aggression, the role of the media, motivation, technology, physical and mental health, coaching, superstitions, advertising, drugs & alcohol, gambling, group dynamics, youth sports, and performance anxiety. We will focus heavily on current events and ethical issues in sports, as well as spend time evaluating various forms of media. The course is open to juniors and seniors who have completed (or are currently enrolled in) one of the social science electives (Psychology, Sociology, or Justice Education) and passed 10th or 11th grade English.

**8212 Film & Society - Grade 11, 12 ( .5cr) ODD YEARS**

This course will expose students to sociological content within contemporary feature films. This will be an opportunity for students to develop a better sociological understanding through the viewing, discussion, and analysis of select films. The course will be heavily discussion-based. Topics addressed will include family, work, race, gender, and culture. Students will also have the opportunity to complete an individual film analysis project and presentation at the conclusion of the course. All enrolled students will be required to have a parent permission form completed before any films can be viewed in class.

**8230 Recent History- Grade 11,12 (1.0 Cr) EVEN YEARS**

This course is designed to give students an in-depth look into Modern US History that has shaped how our country operates today in all aspects. American life, politics, economics,and culture will be explored. The course will cover history from post-World War II in 1945, to the present day United States that we have today.

**MATH DEPARTMENT**

**4.0 CREDITS OF MATH ARE NEEDED TO MEET WASD GRADUATION REQUIREMENTS.**  
**Only one sequence of Accounting can count as a math credit. Accounting 1 or Accounting 2**

Grade 9	Grade 10	Grade 11	Grade 12
Pre-Algebra	Keystone Algebra 1 or Keystone Algebra 1M1 and Keystone Algebra 1M2	Algebra 2 or Honors Algebra 2	Geometry or Honors Geometry
Algebra 1	Algebra 2 or Honors Algebra 2	Geometry or Honors Geometry	Pre-Calculus or Honors Pre-Calculus
Algebra 2 or Honors Algebra 2	Geometry or Honors Geometry	Pre-Calculus or Honors Pre-Calculus	Calculus or AP Calculus
Geometry	Pre-Calculus or Honors Pre-Calculus	AP Calculus	AP Calculus BC
		Additional Courses	Additional Courses

**8311 Pre-Algebra (1.0cr.)**

Our Pre-Algebra course is an introduction to basic algebra concepts and a review of arithmetic algorithms. The course emphasizes the concepts necessary to be successful in Algebra I and II. The course helps students develop good mathematical study skills and learning strategies.

**8351 Keystone Algebra 1 (1.0 cr.)**

Have you ever wondered “when am I ever going to use this?” Basic algebra can be used in a variety of ways in everyday life from estimating the costs of a night out with friends, to predicting the number of hours you must work to pay for the latest cell phone. Perhaps you’d like to weigh your options when planning a vacation to get the best experience at the greatest value. While Algebra 1 is the foundational course for future algebra courses, its content and structure give you the opportunity to connect previously acquired skills with new applications. Topics derive from the Pennsylvania Common Core Mathematics Standards set forth by the Pennsylvania Department of Education. From working with real numbers to writing and solving equations and inequalities as well as systems of equations and inequalities, you will apply your skills to problem situations that model ones encountered in daily life. You will explore data, model it graphically, and use methods of data analysis to generalize outcomes and draw conclusions. You will be introduced to algebraic skills required to classify, factor, simplify and solve algebraic expressions and equations as you prepare to advance to future algebra courses—courses which form the foundations of science and physics fields including architecture and engineering. Success in Algebra 1 is not only useful to you as you develop your independence in life, strategizing your future and managing your own activities, it also has the potential to catapult you into an exciting career in the modern-day world of emerging science, technology, and engineering! Students completing this course will take the Algebra 1 Keystone Exam.

**8351M1 Keystone Algebra 1M1 (1.0 cr.)**

Keystone Algebra 1A will be an introduction to the content and problem-solving strategies necessary to be successful on the Algebra 1 Keystone Exam. This course will cover approximately half of the content tested on the Keystone Algebra 1 Exam. Topics derive from the Pennsylvania Common Core Mathematics Standards set forth by the Pennsylvania Department of Education. From working with real numbers to writing and solving equations and inequalities as well as systems of equations and inequalities, you will apply your skills to problem situations that model ones encountered in daily life. This will be a slower-paced course than traditional Algebra 1 and is designed to be taken prior to Keystone Algebra 1B. Students completing this course will not take the Keystone Algebra 1 Exam but are required to take Keystone Algebra 1B as a subsequent course. **Prerequisite: Pre Algebra**

**8351M2 Keystone Algebra 1M2 (1.0 cr.)**

Keystone Algebra 1B will be a continuation of the content and strategies required to be successful on the Algebra 1 Keystone Exam. Topics derive from the Pennsylvania Common Core Mathematics Standards set forth by the Pennsylvania Department of Education. By solving systems of equations and inequalities, you will apply your skills to problem situations that model ones encountered in daily life. You will explore data, model it graphically, and use methods of data analysis to generalize outcomes and draw conclusions. You will be introduced to algebraic skills required to classify, factor, simplify and solve algebraic expressions and equations as you prepare to advance to future algebra courses—courses which form the foundations of science and physics fields including architecture and engineering. This will be a slower-paced course than traditional Algebra 1 and is designed to be taken after Keystone Algebra 1A. Students completing this course will take the Algebra 1 Keystone Exam. **Prerequisites: Pre Algebra and Keystone Algebra 1A**

**8355 Honors Algebra 2 (1.0 cr.)**

Learning math helps to develop your critical thinking skills. Critical thinking skills include communication, problem solving, and reasoning when working as an individual or with a team. Algebra is essential for many careers; especially those that relate to math and the sciences. The aim of Algebra 2 is to guide you through concepts that apply to everyday real-life situations. Second year Algebra skills will be developed to include function families, quadratic equations and functions, imaginary and complex numbers, polynomial equations and functions, radical functions and equations, and exponential and logarithmic functions. Hands-on activities and technology will be used to introduce and reinforce content. The use of technology will be incorporated into each unit. Honors Algebra 2 will be a fast paced and rigorous course that will cover Algebra 2 topics on a deeper level allowing for more in-depth critical and analytical thinking. **Prerequisites: Algebra 1**

**8353 Algebra 2 (1.0 cr.)**

Learning math helps to develop your critical thinking skills. Critical thinking skills include communication, problem solving, and reasoning when working as an individual or with a team. Algebra is essential for many careers; especially those that relate to math and the sciences. The aim of Algebra 2 is to guide you through concepts that apply to everyday real-life situations. Second year Algebra skills will be developed to include function families, quadratic equations and functions, imaginary and complex numbers, polynomial equations and functions, radical functions and equations, and exponential and logarithmic functions. Hands-on activities and technology will be used to introduce and reinforce content. The use of graphing calculators and computers will be incorporated into each unit. **Prerequisites: Algebra 1**

**8323 Geometry (1.0 cr.)**

Geometry is a course whose primary purpose is to teach students how to think logically using familiar objects and shapes. There are many surprising and interesting applications and facts that result from observations of simple shapes used to model the real world. Students will prove many of these facts as they analyze basic geometric definitions, postulates, and theorems. Students will investigate and apply the facts they learn about segments, angles, parallel and perpendicular lines, congruent triangles, similar triangles, quadrilaterals, polygons, and circles. In addition, students will calculate areas, and volumes of a variety of geometric figures relating them to practical applications in construction and engineering. They will also learn about transformations which are the foundation of modern computer graphics. Furthermore, they will be introduced to right triangle trigonometry which is a gateway to many more advanced topics in mathematics, engineering, construction and the sciences. **Prerequisites: Algebra 1 and Algebra 2**

**8323H Honors Geometry (1.0 cr.)**

Geometry is a course whose primary purpose is to teach students how to think logically using familiar objects and shapes. There are many surprising and interesting applications and facts that result from observations of simple shapes used to model the real world. Students will prove many of these facts as they analyze basic geometric definitions, postulates, and theorems. Students will investigate and apply the facts they learn about segments, angles, parallel and perpendicular lines, congruent triangles, similar triangles, quadrilaterals, polygons, and circles. In addition, students will calculate areas, and volumes of a variety of geometric figures relating them to practical applications in construction and engineering. They will also learn about transformations which are the foundation of modern computer graphics. Furthermore, they will be introduced to right triangle trigonometry which is a gateway to many more advanced topics in mathematics, engineering, construction and the sciences. Honors Geometry will be a fast paced and rigorous course exploring applications that require synthesis of previous knowledge and deeper analytical thinking. **Prerequisites: Algebra 1 and Algebra 2**

**8337 Algebra 3 (1.0 cr.)**

This course is designed to prepare senior level students for a freshman college algebra course, or math courses required at a trade school. It further develops applications and skills in solving algebraic equations as well as problems involving geometry. The course will also introduce students to trigonometry of a circle and its applications. Students will discuss topics including trigonometric functions, polynomial functions, circular measure, and graphing. The pacing of this course is less rigorous than the Pre - Calculus course, but some of the same topics will be covered. **Prerequisites: Algebra 2**

**8333H Honors Pre-Calculus (1.0 cr.)**

Precalculus is a comprehensive course that weaves together previous study of algebra, geometry, and functions into a preparatory course for calculus. The course focuses on the mastery of critical skills and exposure to new skills necessary for success in subsequent math courses. This will be a fast-paced and rigorous course that will cover Pre-Calculus topics with more depth. Additional topics will include matrices, conics, and elementary calculus. Prerequisites: Honors Algebra 2 and Honors Geometry

**8333 Pre-Calculus (1.0 cr.)**

Precalculus is a comprehensive course that weaves together previous study of algebra, geometry, and functions into a preparatory course for calculus. The course focuses on the mastery of critical skills and exposure to new skills necessary for success in subsequent math courses. **Prerequisites: Algebra 2 and Geometry**

**8342 Calculus (1.0 cr.)**

Calculus is designed to give students an overview of Calculus topics such as limits and continuity, derivatives, anti--derivatives, integrals and differential equations. This course is designed to prepare students for Calculus 1 at the college level. **Prerequisites: Pre-Calculus**

**Advanced Placement Courses**

**AP Calculus is a course offered to 12th graders, who are required to take the AP exam that follows the instruction. Students must pay the cost (\$97) of this exam prior to the start of the course. Financial aid may be requested**

**8344 Advanced Placement Calculus AB (1.0 cr.)**

AP Calculus AB is the study of limits, derivatives, definite and indefinite integrals, and the Fundamental Theorem of Calculus. Consistent with AP philosophy, concepts will be expressed and analyzed geometrically, numerically, analytically, and verbally. Students must take the AP Exam at the end of this course. **Prerequisites: Pre- Calculus**

**8357 Advanced Placement Calculus BC (1.0 cr.)**

AP Calculus BC is an advanced course in mathematics. A strong foundation in functions, their characteristics, behaviors and graphs is a required prerequisite. In addition, experience with polar functions and series is recommended. Topics studied include Limits, Derivatives, Applications of Derivatives, Antidifferentiation, Integrals, Differential Equations, Infinite Series, Convergence Tests, Taylor Polynomials, Parametric Equations, Vectors and Polar Functions. Numerous applications of calculus will also be explored. Students will be working independently at a college level and pace. **Prerequisites: AP Calculus AB**

**8346 Probability and Statistics (1.0 cr.)**

This course is an introduction to probability and statistics incorporating numerous skills needed to prepare students for college and the workforce. It will aid students in critical analysis and interpretation of the extensive amount of data they will encounter in their future endeavors. Students will design and carry out a plan to gather sample data. They will learn how to display and analyze data using current software. In addition, students will acquire a working knowledge of probability theory. Furthermore, they will investigate current data from the fields of business, science, economics, and politics to run a variety of statistical tests using the computer. **Prerequisites: Algebra 2**

**8359 Dual Enrollment College Algebra - Grade 11, 12 (1.0 cr.) ODD YEARS**

This college-level course is designed to prepare students for further study in college mathematics. Content will begin with a review of intermediate algebra concepts and progress through subject matter within college algebra. Topics to be covered include algebra and problem solving, factoring techniques, linear functions and inequalities, systems of linear equations, polynomials, polynomial functions, rational expressions and functions, radicals, radical functions, rational exponents, imaginary and complex numbers, quadratic equations and functions, exponential and logarithmic functions, graphing techniques and analysis. To cover the material in a semester, the course will move at an accelerated pace and students will be expected to spend the requisite time outside of class to master course material. Students enrolled in this course may receive both high school and college credit, if the course is completed successfully. Upon successful completion of course requirements, students will earn college credit through Lackawanna College.

**SCIENCE DEPARTMENT**

**4.0 CREDITS OF SCIENCE ARE NEEDED TO MEET WASD GRADUATION REQUIREMENTS**

<b>Grade 9</b>	<b>Grade 10</b>	<b>Grade 11</b>	<b>Grade 12</b>
Earth Science OR Keystone Biology	Keystone Biology OR Elective Science	Elective Science	Elective Science

**Elective Science Options**

Advanced Biology	Chemistry 1	Science and Technology in Society	Natural Resource Management
Environmental Science	Honors Physics	Physics	Plant Science and Horticulture I
AP Environmental Science	Chemistry 2	AP Physics 1	Plant Science and Horticulture II
		Animal Science I	Animal Science II

**8611 Earth and Space Science (1.0 cr)**

In this course students will investigate the geological processes occurring above and below the surface of the earth. The major theme of earth science is change throughout the Earth's closed system. This course explains the concepts of weather, climate, rocks, minerals, internal processes of the earth, glaciation and the oceans.

**8627 Keystone Biology ( 1.0 cr.)**

Course is aligned to the curriculum and requirements of the PDE Keystone assessment. Major topics of interest include; biochemistry, cell structure and function, bioenergetics (photosynthesis & cellular respiration), genetics, and evolution. **Prerequisites: Earth Science or a proficient score or higher on early entry exam.**

**8631 Chemistry 1 with lab 1.5 credit**

Have you ever wondered how an instant hand warmer generates heat upon its activation, why plastic wrap sticks so well to itself, or how a Tide pen erases stains in your clothing? The discipline of chemistry investigates changes in matter and energy that occur through the interaction of atoms and molecules. Topics of study include: properties of matter, changes in matter, kinetic molecular theory, gas laws, atomic theory, the periodic table, chemical bonding, chemical reactions, and stoichiometry.

**Prerequisite: Keystone Biology, Algebra 2**

**8653**

**Chemistry 2 with lab 1.5 credit**

Topics include the scientific method, atomic structure, redox reactions, thermochemistry, solutions, and kinetics. Other topics will include equilibrium, thermodynamics, electrochemistry, and nuclear chemistry. Types of assessments include daily quizzes, quizzes, summative tests, laboratory reports.

**Prerequisites: Chemistry, Calculus may be taken concurrently or taken previously.**

**8633**

**Advanced Biology (1.0 cr.)**

This biology course is designed for students who are interested in majoring in Biology for their post-high school experience. Biology is a broad and ever-changing field of study composed of many subdisciplines. This course is designed to combine the multiple disciplines of Biological Principles, Microbiology, and Human Anatomy and Physiology. Students will implement the fundamental skills needed for an introductory course of a college level Biology. Emphasis is placed on developing skills used in a lab setting. **Prerequisites: Biology, Chemistry, and Environmental Science (can be taken concurrently), Prob and Stats**

**8624**

**Science and Technology in Society (1.0 cr.)**

This is a great course for any student who is interested in learning about how scientific concepts are woven throughout all aspects of our society. Using a topic-based approach, students in this course will learn about concepts from content areas such as physics, chemistry, environmental science, and engineering. Examples of topics of study include: plastic production and plastic waste, the internal combustion engine and alternative fuels, environmental engineering and water chemistry, vehicle safety, household energy production, and cell phones. **Prerequisite: General Science**

**8641**

**Physics with lab 1.5 credit**

This course provides a foundational overview of topics in physics. Topics of study include kinematics, dynamics, projectile and circular motion, momentum and energy, mechanical waves, sound, optics and electricity and magnetism. Considerable time is spent in problem-solving and laboratory investigation.

**Prerequisite: Algebra 2**

**8643**

**Honors Physics with lab 1.5 credit**

Interested in engineering, chemistry, physics and applications in biology? In this course of basic principles of classical physics, the student will utilize modern technology in the form of motion sensors, photogates, force sensors and graphical analysis software to quantitatively analyze experimental data. Topics of study include forces and Newton's laws, 1D and 2D motion, momentum, energy, and electricity. Good problem solving skills are a must for successful completion of this course. **Prerequisites: Algebra 2, Pre-Calculus (can be taken concurrently)**

**8645**

**AP Physics 1 (1.5 cr.) ODD YEARS**

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through classroom study, in-class activity, and hands-on, inquiry-based laboratory work. Topics of study include forces and Newton's laws, 1D and 2D motion, momentum, energy, and electricity. This course is intended for students who are interested in pursuing a degree in engineering or the sciences and/or have an interest and aptitude in science and mathematics. College credit can be earned with a qualifying score on the AP exam. **Prerequisite: Pre-calculus**

**8875**

**Environmental Science (1.0 cr.) ODD YEARS**

Do you want to learn more about the environment, how to help take care of it and issues between humans and the environment? This is an applied, interdisciplinary science course which integrates aspects of biology, geosciences, chemistry and physics to understand the earth and the human impact on it. The goals of this course are to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world; to identify and analyze environmental problems both natural and human-made; to evaluate the relative risks associated with these problems; and to examine alternative solutions for resolving and/or preventing them. These goals will be accomplished individually and cooperatively through laboratory activities focusing on experimental design and critical thinking, field research and data collection, research projects, evaluation of current issues, demonstrations, lecture, and problem sets. **Prerequisite: Students must score Proficient or higher on the Keystone for Biology.**

**8876 AP Environmental Science (1.0 cr.) ODD YEARS**

Do you have an interest in pursuing an environmental career and post-secondary education in the field? Students cultivate their understanding of the interrelationships of the natural world through inquiry-based lab investigations and field work as they explore concepts like the four Big Ideas; energy transfer, interactions between earth systems, interactions between different species and the environment, and sustainability. This is an applied, interdisciplinary science course which integrates aspects of biology, geosciences, chemistry and physics to understand the earth and the human impact on it. College credit can be earned with a qualifying score on the AP exam. **Prerequisite: Chemistry**

**HEALTH SCIENCES**

**8655 Anatomy/Physiology (1.0 cr.) ODD YEARS**

This course will study the structure and function of the human body using a body systems approach, with emphasis on correlation between form and function at the gross and microscopic levels of organization. This is an ideal course for those considering the medical or veterinary fields. This course does not count for science credit. **Prerequisite:** Biology, Health

**8659 Health Tech Lab I -Grade 11 ( 1.0cr.)**

**8660 Health Tech Lab II -Grade 12 (1.0 cr.)**

This two semester course will expose students to the environment associated with four different medical environments: working in a hospital, nursing home, doctor's office, or home health care environment. Students will learn proper techniques in floor layout of equipment, sanitary procedures for disposal and removal of waste substances, and other skills necessary in maintaining a safe and conducive work environment. Students will be introduced to a variety of information systems and become familiar with the role and operation of each piece of equipment.

**8666 Medical Terminology - Grades 11,12 (1.0 cr)**

This course is designed to introduce students to the medical language. A two-semester course, students will learn to read, write, and understand various medical terms used in a variety of medical fields. A strong emphasis will be placed on anatomy and physiology, diagnostic terms, symptomatic terms, operative terms, laboratory and radiological terms, and abbreviations. Current medical terms and medical advances will also be used. Students will learn to properly pronounce and spell these terms as well as the proper abbreviations and symbols used within the medical field. A research paper will be incorporated into this course. This course does not count as a science credit. 3 Credits, Dual Enrollment course with Penn College.

**8667 Health Occupations I (2.0 cr)**

This is the first in a series of three- year courses for the Health Occupations Career and Technical Education program. The topics covered in this course include: Promotion of Safety, History and Trends of Healthcare, Health Care Systems, Careers in Healthcare, Personal and Professional Qualities of a Health Care Worker, Legal and Ethical Responsibilities in Health Care, Computers and Technology in Health Care, Human Growth and Development, Cultural Diversity, Nutrition and Diets, and Introduction to Infection Control. Medical Terminology will be embedded within this course as it relates to the topics covered.

**8668 Health Occupations II (2.0 cr)**

This is the second in a series of three-year courses for the Health Occupations Career and Technical Education program. The topics covered in this course include: Anatomy and Physiology of the Human Body, Geriatric Care, Medical Math, Vital Signs, and First Aid and Infection Control. Medical Terminology will be embedded within this course as it relates to the topics covered. \*Recognizing & Reporting Child Abuse Certification and PA DHS Personal Home Care Direct Training/Adult Residential Care Licensing will be available during the course. Prerequisite: Successful completion of Level I (Intro) Health Occupations



**8669**

### **Health Occupations III (2.0 Cr)**

This is the third in a series of three-year courses for the Health Occupations Career and Technical Education program. The topics covered in this course are directly related to specific career pathways including: Dental Assistant Skills, Laboratory Assistant Skills, Medical Assistant Skills, Nurse Assistant Skills, Physical Therapy Skills, and Business and Accounting Skills. Preparing for the World of Work is also presented which includes cover letters, developing a resume, completing job application forms, job interviewing skills, determining net income and calculating/balancing a budget. \*OSHA 10-Hour General Industry (Health Care) Certification and AHA Healthcare Provider CPR Certification will be available during this course. Prerequisite: Successful completion of Levels I and II Health Occupations

## **AGRICULTURE/NATURAL SCIENCE**

### **What is FFA?**

FFA is the largest national student organization in the country with over 500,000 members. The focus of this organization is premier leadership, personal growth, and career success. FFA is NOT an organization just for farmers. It is about all areas of agriculture including veterinary science, floriculture, biotechnology, agricultural mechanics, and wildlife to name a few areas. In the FFA, students participate in competitions, leadership conferences and community service on local, state, and national levels. Students must be in an agriculture class to be a part of the FFA. Participation in FFA activities is optional.

### **What is an Ag. Experience?**

An Ag (agriculture) experience is a time for students to apply the skills they learn in an agriculture course outside of class time. These experiences prepare students for further education or a future career. It can happen in the summer before a student takes an agriculture course – or during the year. This can be through a job, volunteering, raising an animal, working with the animals at school, working with plants at school, promoting agriculture through posters, designing programs for local Ag. Safety day, or attending training to learn about local wildlife just to list a few examples. The instructor will assist the student in finding an appropriate Ag. Experience and check for the students' progress during this experience. Students will complete an Ag. Experience as part of class and/or if they complete enough hours they can earn an extra elective credit for their experience.

### **8851 Introduction to Agriscience, Food, and Natural Resources – Grade 9,10 ( 1 cr.)**

Do you love animals, plants, and the environment? Would you like to work in a field that includes these things in the future? If so – this course is for you. This course takes a hands-on approach learning about the production of plants and animals, and the environment. Students will work with the small animals in the classroom, the plants in the greenhouse, as well as in the school forest areas. Students will learn about how to use science in an applied way. Other agricultural topics will be addressed including food science, agricultural mechanics, biotechnology, and safety. Additionally, students will complete lab activities and field trips to explore animal sciences, plant sciences, environmental sciences and the related fields. Safe operation of agricultural equipment will also be taught. Students will complete an individual experience outside of the classroom related to one of these areas as part of their homework. An introduction to FFA will also be a part of the course.

### **8855 Natural Resource Management (1.0 cr.) **EVEN YEARS****

Natural Resources are a rich part of our local history and an important part of a sustainable future. If you love being outdoors this is the class for you. In this course students will gain an understanding and appreciation of the activities needed to manage natural resources. Students will also learn aspects of field biology. Major topic areas discussed include the management of soil, watersheds and wetlands, forests, wildlife and fisheries. Students will work in the school forest area, learn how to use tools in forestry, manage fish in an aquaculture setting in the lab, do stream studies, make maple syrup, use technology such as GPS and probes, collect and identify insects, trees, and plants, and research problems in our local ecosystems. Students should be prepared to be outside and in the field. They will make field observations and keep field journals. Students will complete an agricultural experience outside of the classroom as part of their homework. FFA topics and practical applications will be included as part of this course. **Prerequisite: Keystone Biology. Recommended that you have taken Introduction to Ag.**

**8863 Animal Science 1 (1.0 cr.)**

Do you want to be a vet, animal trainer, or manage a production animal operation some day? Would you like to know more about taking care of animals? In this course students will study the science and practice of animal agriculture. All types of domestic animals will be studied including horses, livestock, dogs, cats, small pets, and fish among others. Students will study the production of these animals along with animal systems, health, nutrition, reproduction, health, welfare, and biotechnology. Students will work with the small animals in the lab, practice dog grooming, as well as take field trips to see other animal facilities. Students will complete an agricultural experience outside of the classroom as part of their homework. FFA topics and practical applications will be included as part of this course. **Prerequisite: Keystone Biology. Recommended that you have taken Introduction to Ag**

**8865 Animal Science 2 – Grades 11,12 (1.0 cr.) EVEN YEARS**

Students that want to continue to expand their knowledge of animals should take this course. This is the second level of animal science. Students will develop an understanding of large animal science and veterinary technology in this course. Through taking this course they will have a working knowledge of basic procedures that veterinary technicians perform including properly restraining animals, taking vital signs, bandaging, assisting in surgeries, and assisting with animal reproduction. They will work with small animals and large animals during the course with some sections of the course of focusing specifically on the handling and management of large animals including cattle, horses, sheep, goats, and pigs. Students will gain experience through field trips and in class dog grooming. Students will gain leadership skills, management experience, and learn how to properly keep records. Students will complete an agricultural experience outside of the classroom as part of their homework. FFA topics and practical applications will be included as part of this course. **Prerequisite: Keystone Biology; Animal Science 1.**

**8853 Agricultural Leadership/FFA A - (.5cr.)**

**8854 Agricultural Leadership/FFA B - (.5cr.)**

Students will develop skills in public speaking, leadership development, demonstrations, salesmanship and management. Other units of study include FFA history, agricultural careers, and etiquette. The class will read leadership development material and complete record books and degree applications for advancement in the FFA. Students will learn more about current agricultural issues, how to advocate for agriculture, and selling a product or managing a business. Students will complete an agricultural experience outside of the classroom as part of their homework. Involvement in the FFA will be part of the grade in this course. This course meets every other day. This course can be taken more than once.

**8872 Agricultural Leadership/FFA A (online)- (.5cr.)**

**8873 Agricultural Leadership/FFA B (online)- (.5cr.)**

Online courses require the student to be self-disciplined, as well as possess strong time management and communication skills. Students will work independently through the course during a scheduled period in their regular day, allowing the classroom teacher to teach and encourage the process and content as well as address any student concerns or problems, which may arise.

**8857 Plant Science & Horticulture 1 (1.0 cr.) EVEN YEARS**

Do you have a green thumb or want to learn how to grow plants better? In this course students will learn the principles and practices of horticulture and plant science. Students will learn about growth and reproduction of plant crops, disease and pest control, hydroponics, floral design, and landscape and hardscape design and installation. Students will manage several crops grown in our greenhouse including bedding plants and vegetables in the spring. Students will actively be working in the greenhouse and outdoors to apply their learning. Students will also produce several floral designs throughout the year in the lab. Students will complete an agricultural experience outside of the classroom as part of their homework. FFA topics and practical applications will be included as part of this course. Dual Enrollment course with Penn College. **Prerequisite: Keystone Biology (may take concurrently). Recommended that you have taken Introduction to Ag.**

**8859 Plant Science & Horticulture 2 (1.0 cr.) ODD YEARS**

Students that would like to continue learning about advanced applications in plant sciences should take this course. This course is the second level of plant science and horticulture. It is designed to prepare students for college or jobs in the plant and horticulture industries. Areas in floral design, arranging, bulb forcing, and raising plants for proper seasons will be covered. Students will practice landscape design and create planting schedules for crops as well as gardens. Business economics will be covered in the areas of marketing, retailing, and maximizing profits. Significant portions of this course will be in the lab, greenhouse or outside. Students will take their pesticide applicator exam as part of this course. Other certifications may be offered through the course during the year. Students will complete an agricultural experience outside of the classroom as part of their homework. FFA topics and practical applications will be included as part of this course. **Prerequisite: Keystone Biology and Plant Science & Horticulture 1. Recommended that you have taken Introduction to Ag.**

**8877 Agricultural Business Foundations (.5 cr.)**

*Agricultural Business Foundations (ABF)* introduces students to business management in agriculture. Mathematics, reading, and writing components are woven in the context of agriculture and students will use the introductory skills and knowledge developed in this course throughout subsequent agricultural courses. Throughout the course are practical and engaging activities, projects, and problems to develop and improve business and employability skills. Additionally, students investigate and develop viable business plans in order to solve local problems. The business plan ideas are communicated to student peers and members of the professional community.

**8870 Supervised Agricultural Experience A – (.5cr.)**

**8871 Supervised Agricultural Experience B– (.5cr.)**

Students that would like to maintain a Supervised Agricultural Experience project may elect to take this credit. This course must have prior approval from the agricultural teacher as there is no classroom time. Students will choose a supervised agricultural experience outside of school hours that is related to a career objective. They will form an agreement with their teacher, parent, or other supervising adult to work in this experience for the length of the course. During this time the student will meet with the teacher on a weekly basis outside of class time to discuss their experience and review their records. The student will be responsible for completing their record book for the duration of their experience. Students will gain valuable skills by working outside of class time to practice the skills they are learning in class. Students will also gain leadership skills, management experience, and learn how to properly keep records. The experience must be at least 50 hours over the course of the semester. This course may be taken more than once. **\*Any transportation must be provided by the student.\***

## AVIATION

**8649 Introduction to Aviation (AOPA STEM Curriculum) (1.0 cr.)**

This introductory course will provide the foundation for advanced exploration in the areas of flying, aerospace engineering, and unmanned aircraft systems. Students will learn about engineering practices, problem-solving, and the innovations and technological developments that have made today's aviation and aerospace industries possible. Students will look at the problem-solving practices and innovative leaps that transformed space exploration from the unimaginable to the common in a single generation. Students will also gain historical perspective, starting from the earliest flying machines and leading to the wide variety of modern aircraft and the integral role they play in making today's world work.

**8650 Aviation II (AOPA STEM Curriculum) (1.0 cr.)**

In this course students will use the eight engineering practices to conduct hands-on laboratory experiments that investigate the forces of flight. In addition to building upon topics covered in Intro to Aviation, this course still will explore an in-depth focus on the following six topics: Getting to Know Aircraft, How Aircraft are Made, Understanding Air, Forces of Flight, Aircraft Sustainability and Control, and Career Skills. Students will continue to explore possible future careers in many different sub-fields within the aviation and aerospace industry. **Prerequisites: Introduction to Aviation**

**8652 Aviation III (AOPA STEM Curriculum) (1.0 cr.)**

Pilot Pathway

This course will include topics such as: pilot and aircraft qualifications, principles of flight, aerodynamics, spin awareness, flight maneuvers, pre- and post-flight procedures, airport operations, regulations, safety, weather, aircraft systems, weight and balance, human factors, cockpit management, emergency procedures, night operations, aeronautical decision-making, cross-country flight planning, airspace, and other topics that help prepare students for the Federal Aviation Administration's Private Pilot written exam.

Unmanned Aerial System Pathway

This course is an introduction to the fundamental concepts of unmanned aircraft systems. Topics include: small unmanned aircraft systems regulations, airspace classification and operating requirements, flight restrictions affecting small unmanned aircraft operation, safety protocols, weight and balance, operating environments, aviation weather sources and effects of weather (micro-meteorology) on small unmanned aircraft performance, small unmanned aircraft loading and performance, emergency procedures, and crew resource management. Students will be prepared to complete the Federal Aviation Administration's Part 107 Remote Pilot written exam upon completion of this course. **Prerequisites: Aviation II**

**8662 Aviation IV (AOPA STEM Curriculum) (18 wks. 1.0 cr.)**

After having prepared for the Private Pilot Knowledge Test and Part 107 Remote Pilot Test in the previous year, students will examine advanced aviation topics and aviation career options. Instrument flight, commercial aviation, and advanced aircraft systems begin the semester. Looking into the future, students then explore new horizons in the aerospace industry. What might aviation look like five, ten, or twenty years into the future? The focus then turns to business development opportunities in aviation. Finally, students learn about and conduct different types of research in preparation for their capstone project in the second semester. **Prerequisites: Aviation III**

## FOREIGN LANGUAGE - FRENCH

Do you know what skill is learned around the world, with enrollments growing by 50% in Asia and Africa? It's French! Globally, French is the second most widely studied language after English. French language and culture have greatly influenced the domains of culinary, theater and dance, and the visual arts. French is also a language of international diplomacy and a global business language. If you are considering a career in any of these domains, a knowledge of the French language and culture will benefit you. When you learn a new language, you never know what doors it may open!

**\*A passing grade is a prerequisite for advancement to the next level in French\***

**8511 FRENCH 1 (1.0 cr.)**

In this course students can expect to practice the four skills of language acquisition- listening, speaking, writing, and reading- with an emphasis on the two most urgent skills, speaking and listening comprehension. Students will learn how to communicate information about their immediate surroundings (school, hometown, etc.) and themselves. Throughout the year, we will connect with native speakers from across the French-speaking world. These collaborations will give students an opportunity to put their new skills to use and to learn about other cultures.

**8512 FRENCH 2 (1.0 cr.)**

This course continues the work of French 1, and begins to put a heavier emphasis on writing in the target language as students continue to work on fluency in speaking and listening comprehension. Students will expand their vocabulary and begin to communicate about broader themes and topics. Students will apply their language skills through dramatization, interviews, and illustrations. Students will continue to connect with native speakers from across the French-speaking world and use those connections to analyze cultural differences.

**8531 FRENCH 3 (1.0 cr.)**

This course continues the work of refining listening, speaking, and writing skills and begins to focus more heavily on reading. Students will have the opportunity to read chapters of the beloved French series "Petit Nicolas" as well as various excerpts from other novels and poetry. This course also increases students' grammatical knowledge to give them the skills needed to communicate clearly in several tenses and moods. Students will become more comfortable with spontaneous use of the language.

**8541 FRENCH 4 (1.0 cr.)**

French 4 students will continue to work in all four domains of language learning as they dive into the cultures and histories of the French-speaking world. Students will increase their fluency as they learn about important historical figures and events from prehistory through World War II. In the spring semester, students will read the novella "Le Petit Prince", which was written during the Second World War. They will evaluate important topics and themes in light of their knowledge of the historical and cultural context of the novella.

**Please note: In order to travel to France with the French program, you must be enrolled in either French 3 or French 4 at the time of the trip. Any exceptions to this rule must be school-board approved.**

## **FOREIGN LANGUAGE – SPANISH**

**\*A passing grade is a prerequisite for advancement to the next level in Spanish\***

**8515 SPANISH 1 (1.0 cr.)**

Students will be able to identify countries of the Hispanic world and begin to read, listen, speak, and write in the present tense. They will be able to articulate topics including introductory conversations, their school day, foods, pastimes, sports, and family.

**8525 SPANISH 2 (1.0 cr.)**

Students will be able to compare and contrast American culture with that of Hispanic countries and will continue to read, listen, speak, and write in the present and preterit tenses. They will be able to articulate topics including clothing, shopping, vacation, volunteerism, the environment, & technology.

**8535 SPANISH 3 (1.0 cr.)**

Students will be able to appraise cultural information about the Hispanic world and will deepen their ability to read, listen, speak, and write in the present, preterit, and imperfect tenses. They will be able to articulate topics including driving, giving directions, holidays, natural disasters, medical situations, foods, sports, and television/movies.

**8545 SPANISH 4 (1.0 cr.)**

Students will be able to collaborate with peers to correlate cultural information about the Hispanic world with their own. They will expand upon their ability to read, listen, speak, and write in the present, past, and future tenses, including both the indicative and subjunctive mood. They will be able to articulate topics including foods, travel, lodging, future career plans, the environment, national parks, and famous works of art.

**8548 Dual Enrollment Spanish - Grade 11, 12 (1.0cr) **EVEN YEARS****

Dual Enrollment Spanish is an introductory college level Spanish course which awards 3 college credits to students who successfully complete the class. Students interested in learning how to communicate in Spanish at a novice level will benefit greatly from this course. Through engaging learning activities, students will develop skills in speaking, listening, reading, and writing Spanish. Students will also broaden their world view as they study the culture of the Spanish-speaking world. Acquiring a foreign language is an advantage to all students and will give them a competitive edge in their future career path.

## **ACCOUNTING, BUSINESS, COMPUTER AND INFO TECH DEPARTMENT**

### **8363 Computer (.5 cr.) ODD YEARS**

This course is designed to help students learn essential computer applications for personal, academic, and career success. Students will use a Windows operating system and appropriate file management resources, expand keyboarding skills on computers for speed and accuracy, apply word processing to create, edit, format, print and cite sources. Additionally, students will apply spreadsheet functions to solve business and statistical problems and create and edit charts and graphs to interpret data. Lastly, students will design, create, and execute a PowerPoint presentation which includes appropriate text formatting, graphics, animation, and public speaking skills. The Internet will be used in an ethical manner to research and efficiently retrieve information. Throughout the course, students will work together in teams with their peers to collaborate on various real-world projects applying several computer applications.

### **8364 Computer Technology (.5 cr.) EVEN YEARS**

This course is a great opportunity for a student to learn valuable knowledge and skills pertaining to computer technology. The objective of this course is to provide the student with different aspects of how a computer can be used as a technological tool. We'll explore future trends in technology while providing a "hands-on" experience using word processing, spreadsheet, presentation, solid state components and database software. Students will be encouraged to think, collaborate, and share different ways to attack and solve problem situations. The student will learn to recognize the capabilities and limitations of the computer and realize that the programmer or human element is more important than the machine. Topics include: computer history, computer hardware and their purposes, introduction to programming, and creating logic circuits with solid state components and microcontrollers.

### **8365 Computer Programming (1.0 cr.) ODD YEARS**

The C++ programming language is a great place to start for a student looking to expand into other programming languages. Programming offers students an invaluable opportunity to develop problem-solving skills. The process of defining a problem, breaking it down into a series of smaller problems and writing a program to solve it is an exercise in learning to think logically. Topics include: logic gates, writing methods, decision statements, compound assignment and iteration statements, using C with microcontrollers and much more! **Pre-requisites: Computer, Algebra 1-2**

### **8411 Business Management - Grades 9-12 (1.0 cr.) EVEN YEARS**

This is an introductory course that covers almost every imaginable area of the business world. The purpose of the course is to give each student a broad foundation on which the other business courses build. Students should leave the course with valuable information about not only working for or running a business, but how to be a better consumer and get the most from their disposable income. Topics include: Business in the Global Economic Environment, Business Organization and Management, Business Operations and Technology, and Personal Financial Management.

### **8423 Financial Record Keeping - Grades 10-12 (1.0 cr.) ODD YEARS**

Keeping records is an important part of your personal life and in your business career. The primary objective of this course is to teach students how to produce the source documents necessary to efficiently operate a business. Students will complete checking accounts, budgets, financial statements, journals, and other entry-level accounting entries. Payroll and tax information is also covered in this course. Students are introduced to the world of credit from both a personal and business perspective.

**8431 Accounting 1- Grades 11, 12 (1.0 cr.) EVEN YEARS**

Accounting is the language of business. Being able to understand the language is important for everyone: owners, managers, accounting staff, creditors, potential investors, and nearly everyone who earns money and submits income tax returns. Students will learn the "language" of business while interpreting information from key source documents. Students will learn to journalize this information and then post it to other crucial documents needed by management, owners, and investors. ALL businesses require accurate information to make sound business decisions and report to various government agency.

**8443 Accounting 2 - Grade 12 (1.0 cr.) ODD YEARS**

This course continues building on the principles and concepts of Accounting 1. The emphasis is on departmentalized accounting for corporations. During the year, the students will start a fictitious business and will use an automated software program to maintain their records using the skills acquired in Accounting 1 and 2. Advanced topics include: management accounting, cost accounting, inventory control and valuation, taxation, and various budgets. **Prerequisite: Accounting 1.**

**8447 Business Law - Grades 11, 12 (.5 cr.) EVEN YEARS**

Knowing the laws of business is a very important part of running and maintaining a successful enterprise. The purpose of this course is to acquaint the student with the legal problems that are encountered in everyday business dealings and includes units on contract and insurance.

**8757 Photography / Graphics – Grades 11, 12 (1.0 cr.)**

Students will be engaged in learning about digital photography and different areas related to graphic design. Digital photography will cover the proper and technical use of digital cameras, how to properly set-up and take different types of photographs, and digital photo editing programs. The graphics portion of the class will include an introduction to desktop publishing, vinyl graphics and screen printing. Projects such as matting and framing photographs, designing/making flyers, signs, and t-shirts will be done. Students are responsible for costs of materials.

**8759 Web Design- Grades 9-12 (.5 cr.) EVEN YEARS**

The purpose of this course is to learn real-life web design solutions using a wide range of techniques. For business or personal, the students will learn how to acquire a domain name, web server, layout and code functional, multi-page websites. Topics include: HTML, Java Script, CSS and Image Editing software.

**8462 Personal Finance -Grades 11 and 12 (.50cr)**

Students are provided a broad overview of how to manage their money and finances from opening a checking account to growth and income funds for retirement. They will be exposed to credit, the effects of interest rates on investment, home and auto purchasing, stocks, bonds, insurance and the money market. Students will actively develop a product complete with marketing strategy and advertisement. Guest speakers from local businesses may be invited.

## **ARTS, HUMANITIES and MUSIC**

**8151 Yearbook - Grades 10, 11, 12 (1.0 cr.)**

Students in the Yearbook class are the leaders and decision-makers of Wellsboro Area High School's Nessmuk yearbook. Students will complete the myriad of tasks to create a quality yearbook that reflects the pictorial history of the activities for the present school year. Yearbook advisors expect students to actively participate in the following components: develop a theme, design cover, end sheets and title page that reflect the theme, create master designs for each section, create a workable ladder, set up type specs and graphic elements for each section, determine story ideas, conduct interviews, determine photo ideas, set up story and photo assignments to "shoot to the shot," write captions and short informative articles, organize sale and distribution of book, sell advertising, finalize completed computer pages, establish and meet publication deadlines, edit pages. Students will use computer programs such as Adobe Photoshop, Jostens Yearbook Avenue program to edit pictures and design the yearbook. Other software used includes the entire Microsoft Office and Google Suite to complete the tasks. In addition, students will learn how to use a digital camera with zoom lens and scanners.

**8911 Music (.25 cr.) EVEN YEARS**

General Music is a semester-long adventure into the basics and history of music. Students will learn the basics of music notation including reading and writing music and be expected to execute this newfound knowledge through in-class performance. Prominent composers will be researched and reported on to gain appreciation for the art of composition. We will also explore different genres of music and ways of expressing them. This course is VERY research based.

**8951 Band– Grades 9-12 (1.0 cr.)**

Band is a robust year-long course offered to any learner interested in developing the ability to play a standard band instrument in a large ensemble setting. While prior involvement is a great help, no prior experience is required. Our overall goal is to develop and expand your life-long appreciation for and involvement with instrumental music. Emphasis is placed on building solid technique, acquiring musicianship skills, and fostering a sense of ensemble belonging. A variety of styles and levels of music are covered to enhance your musical and playing ability. These abilities are showcased at our annual Christmas and Spring Concerts as well as the Little League, Memorial Day, Pet and Laurel Festival Parades. Your attendance/participation at these valuable performance opportunities is required. Instrumental lessons are continued and expanded on at the high school. Band members are also strongly encouraged to participate in our Jazz Band, Hand Bell Choir, and Fall Field Show Marching Band (where varsity jackets can be

**8961 Chorus A – Grades 9-12 (.25 cr.)**

**8962 Chorus B – Grades 9-12 (.25 cr.)**

Chorus is a robust and varied course offered to any learner wishing to expand their interest in music through performance in a large vocal ensemble. Prior experience is of great help, but not required...all students with a positive cooperative attitude are welcome. Our overall goal is to significantly increase your understanding and appreciation of music as an art form you can pursue your whole life long. Emphasis is placed on building solid vocal technique, acquiring musicianship skills, and fostering a sense of ensemble belonging. A wide variety of genres and difficulty levels of music are covered to stretch your ability. These abilities are showcased at our annual Christmas and Spring Concerts. Your attendance/participation at these valuable performances is required. Chorus students are strongly encouraged to join our varied offerings of specialized vocal ensembles including Dickens, Men's and Women's Choirs. An audition is required. See the director for information.

**8969 Music Theory - Grades 10,11,12 (1.0cr.) ODD YEARS**

This course is designed for those students pursuing a career in the field of music (things such as recording technician, music educator, performing artist, etc.) As a required prerequisite for enrollment in the class, students must have already successfully acquired their music credit for graduation and be a member or have been a member of one of our performing ensembles. We will cover collegiate level material at a collegiate pace with emphasis on music analysis, structure, aural skills, notation, and theoretical composition. This course is intended to strengthen your musical understanding and prepare you for further musical study in post-secondary degrees.

**8971 Introduction to Art - Grades 9-12 (.5 cr.)**

This beginner's course is mandatory for graduation credits. This course is open to all grade levels interested in a general background in the visual arts. Students who take Introduction to Art will become familiar with various media and supply locations within the art room. The students will become acquainted with basic materials and techniques through drawing, painting, sculpture, graphics and fibers. Basic skills are developed to emphasize the relationships of creative ideas to the product. Students who will continue to study art in college are recommended to take intro to Art in 9<sup>th</sup> grade. This will create a path to a successful secondary art education for the art driven student.



**8972 Drawing & Painting - Grades 10,11,12 (.5 cr.)**

Students who enjoy drawing and painting or those who want more practice are encouraged to take this class! This elective course offers further exploration in drawing and painting. The course includes pencil, pen and ink, crayon, chalk pastels, oil pastels, charcoal, or other drawing tools. An introduction to watercolor, tempera, acrylic, and oil painting are also incorporated. Value will be introduced as an important element of design to increase skills in 3 dimensional representations. Elements and principles of design will be incorporated into various assignments. Drawing projects alternate painting projects throughout the semester to keep the class interesting and students involved.

**Prerequisite: Intro to Art**

**8977 Advanced Drawing & Painting - Grades 10,11,12 (.5 cr.)**

Students who enjoyed the Drawing and Painting course will love this advanced class. This advanced course offers further exploration in drawing and painting. Special techniques in pencil, pen and ink, charcoal, pastels and other drawing tools as well as watercolor, tempera, acrylic and oil painting will be emphasized. The element of design value will continue to be emphasized in most assignments.

Continued study and review of elements and principles of design in correlation to assignments will be presented. Assignments will be more Challenging for students by increasing their creative problem - solving skills. **Prerequisites: Drawing and Painting, Intro to Art**

**8978 Color & Design - Grades 10,11,12 (1.0 cr.)**

Color and Design entails a combination of drawing, painting, and some out of the box two-dimensional projects. Three-dimensional projects will be created when clay is introduced in one of the 4 marking periods. Starting with a review of color theory, the class will explore the full range of creative options combining color and design. Progressing to the basic elements of composition and pictorial structure, students will learn to observe, understand, and solve a wide range of problems on a two-dimensional surface utilizing a variety of art materials applicable to the given problem. Ceramics will be included and utilized in creative problem solving through a few three-dimensional assignments. Color and design objectives will be included in ceramic projects. Exploration in clay using hand building techniques in the creation of clay objects both sculptural and functional. An introduction to the potter's wheel will be offered for those interested. **Prerequisite: Intro to Art**

**8980 Oil Painting - Grades 11,12 (1.0 cr.)**

This is my favorite class! Oil paints will be introduced as an advanced painting class. Students will need to take care of their brushes and supplies as part of their class grade. Students will need to take special care of their paintings "in the works" due to the long drying process. This course will be an opportunity to assist the serious art student in learning the basics of oil painting. Students will be taught simple steps to a successful finished piece through a series of oil painting assignments. Various color combinations, subject matter and painting surfaces will be explored. Oil paints are a durable and lasting medium that immortalizes one's vision! Students will research a famous master artist from the past. A short biography and description of the artist's style will be explained along with an oil painting by the student in that artist's style. Students will present their research and art work to the class. Students should be developing their own unique painting styles by the end of this course. **Prerequisites: Intro to Art, Drawing and Painting and Advanced Drawing and Painting**

**8941 Teacher Aide Program A - Grades 11 & 12 (1.0 cr.)**

**8942 Teacher Aide Program B - Grades 11 & 12 (1.0 cr.)**

This program provides an opportunity for students to explore their interest in and aptitude for a teaching career. It provides a realistic experience in working with children for those students who are considering professional level careers in related fields. Students will be assigned to an elementary or middle school teacher for each marking period. Students will also be required to complete weekly assignments in an online course. Excellent attendance is required and will be monitored. Students must be prepared to arrange their own transportation.

## INDUSTRIAL TECHNOLOGY

### **8713 Drafting 1 (1.0 cr.)**

For everything that is made, it has to be designed first! This Introductory course introduces students into the World of drawing and design. This course starts with the simpler skills of sketching, lettering, measuring, and works up to and through creating 2d and 3d drawings in AutoCad (computer based drawing). Students will learn drafting skills and standards as they create different types of Drawings in Autocad. An introduction to different areas of drafting will also be explored.

### **8723 Technical Drafting 2 (1.0 cr.) Prerequisite: Drafting 1**

This course will be a continuance of the development and use of Autocad. Along with the continuation of development of 2d drawings. More emphasis will begin to be placed on 3d drawings along with the incorporation of Inventor (3d modeling program). Use of the 3D printer will also be incorporated as students learn to design different parts to be printed.

### **8733 Technical Drafting 3 (1.0 cr.) Prerequisite: Technical Drafting 2**

A Continuation of Drafting 2, students will have a chance to take their drafting skills to the next level. Students will work on more in-depth projects in both the 2d and 3d World. Students will work on individual design projects where they will design and draw projects that will incorporate working and assembly drawings, along with animation of moving parts.

### **8743 Construction Drafting & Design (1.0 cr.)**

Interested in Designing houses? In this course students will learn the principles of residential construction and how to develop a basic set of architectural plans. The CAD system will be utilized in this development. Material estimates will be developed both manually and with the computer. Prerequisite: Drafting 1

## INDUSTRIAL TRADES

### **8772 Shop Skills (.5 credit) ODD YEARS**

Over the course, students will complete multiple hands-on projects that will reinforce the basic fundamentals of shop safety, hand tools, and power tools. The focus of this course includes basic woodworking and construction projects.

### **8773 Shop Maintenance and Repair (.5 cr.) ODD YEARS**

In this course, students will conduct preventative maintenance and repair on shop machinery. They will learn about the properties of AC/DC motors, diesel engines, hydraulic, pneumatic, and electronic system on machinery, clutches and transmissions, as well as rigging and lifting of heavy load. Also included will be instruction on tool repair, electrical repair, and basic fabrication. Students will complete the OSHA 10-hour training for general industry.

### **8745 Woodworking 1 (1.0 cr.)**

In this course, students will build multiple projects using power tools and hand tools. Students will safely use a variety of bench tools, power hand tools, and hand tools. The course will be graded based on classroom assignments, required projects, and students chosen projects. Grading emphasis is on work ethic and safe shop practices.

### **8747 Woodworking 2 (1.0 cr.)**

In this course, students will build multiple projects demonstrating an increasing skill level. The students' projects will build on the skills that students gained in the first level course. Students use a variety of bench tools, power hand tools, and hand tools. The course will be graded based on classroom assignments, required projects, and students chosen projects. Grading emphasis is on work ethic and safe shop practices. **Prerequisite: Woodworking 1**

**8776                                      DIY: Home Improvement (0.5 cr.)**

This course is designed to teach basic home improvement skills that can be used by anyone using basic tools and low-cost materials. This course will expose students to a variety of topics related to home maintenance, repair, and safety. Students will learn how to fix basic electrical, plumbing, framing, drywall problems, and complete home interior design projects. Additionally, students will learn about routine home maintenance. Students will learn about safety procedures for working on and maintaining a home. Students will be exposed to topics including painting, organizing, designing, and decorating a home. In addition to providing all students with the opportunity to learn how to complete safe repair and maintenance of a home, this course will act as a survey introduction to the construction program.

**8721                                      Metalworking Technology 1- Grades 9,10,11,12 (1.0 cr.)**

Like Hands on work, and making things? Students will advance their technological culture and skills by studying and working with metallic substances and related composition. A large portion of this class will involve fabrication and the different types of welding. Other areas covered will be bench metal, foundry, forging, machining, and CNC machining. Class size limit 15. Students will need to pay for any personal shop projects.

**8725                                      Metalworking Technology 2 - Grades 9,10,11,12 (1.0 cr.)**

These courses are a continuation of Metalworking Technology I. In this course students will be able to build upon the basic skills they learned in Metalworking Technology I in hopes of developing their skills for a career related to metals. Advanced projects will be done in order to reinforce skills learned in machining and welding.

**8731                                      Small Engines Technology (.5 cr.)**

During the semester, students will learn about the theory and operation of two-cycle and four-cycle engines. Students will dismantle and rebuild a four-cycle engine. Additionally, students will complete repairs and maintenance on two-cycle and four-cycle engines.

**8755                                      Electricity – Grades 10,11,12 (.5 cr.) ODD YEARS**

Students will learn to run and connect residential wiring circuits. Including connecting breaker boxes, two-way, three-way, and four-way switches, reading wiring schematics, and calculating current for a circuit.

**8753                                      Plumbing – Grades 10,11,12 (.5 cr.) ODD YEARS**

Students will learn to make various types of supply and drain line connections; interpret specifications and blueprints to install water, waste, and vent systems; install appliances and equipment; and troubleshoot and repair common plumbing problems. The safe and appropriate use of tools will be stressed throughout the course.

**ENGINEERING**

**8780                                      Engineering Trades 1 (1.0 credits)**

Over the course of the year, students will complete several engineering challenges. While completing these challenges, students will learn about safety and ethics in engineering as well as problem-solving and teamwork skills as they apply to the engineering field. Additionally, manufacturing and industrial systems will be introduced.

**8784                                      Engineering Trades 2 (1.0 credits)**

This second-level engineering course will have a more in-depth focus on design processes and materials used in engineering. Students will design and model a solution to an engineering problem. Additionally, the properties of materials and their appropriate uses will be investigated. **Prerequisite:** Engineering 1 Penn College Dual Enrollment Course

**8785 Engineering Trades 3 (1.0 credits)**

This third-level engineering course will examine fluid systems, electrical systems, and automated systems as they relate to engineering. Students will examine fluid dynamics and the maintenance of fluid systems. Students will learn basic electronics. Additionally, students will learn how machine controls and automated systems are used in engineering. **Prerequisites:** Engineering 2 and Computer Programming

**8786 Engineering Trades 4 (1.0 credits)**

This fourth-level engineering course will focus on manufacturing processes and quality control. Students will engage in solving an engineering problem that begins with defining the problem and ends with the development of a manufacturing process to create a solution to the problem. Students will have to consider quality control in their problem solving process. Additionally, students will spend time in this course preparing for the NOCTI exam. **Prerequisite:** Engineering 3; **Co-requisite:** CTE Business Applications

**8787 Robotics (1.0 cr.)**

The use of robotic technology is becoming increasingly common in today's society, and the study of robotics provides an exciting opportunity for students to learn about the engineering design process. Throughout this project-based curriculum, students will learn about topics such as mechanical power transmission, drivetrain design, and lifting mechanisms and how they apply to mobile robotics. Students will also integrate sensors into their robot designs and learn how to write programs that will allow a robotic system to be controlled autonomously. Most of the course will focus on task-based challenges and class competitions. Any student with interests in engineering or computer science is encouraged to enroll. This is a required course for students who wish to complete the Engineering Technology pathway.

**8789 Engineering Trades Supervised Experience- (1.0 cr.)**

Supervised engineering experience is made up of planned practical activities that support the development of the skills and competencies incorporated in the Engineering Curriculum. There is no set classroom time for this class. The various lab activities will include in-school and after-school functions, and industry visitations and SkillsUSA sponsored functions. This is a single period class and is open to second- and third-year Engineering students.

**8440 CTE Business Applications ( 0.5 cr.) ~~EVEN YEARS~~**

This course is designed to teach basic skills necessary for students to be successful when exiting the CTE programs. This course is designed to meet the business requirements listed on the CTE task grids for students in the General Agricultural, Agricultural Mechanization, Building Construction, Culinary, Horticulture, and Engineering CTE programs. This course will be primarily project based with the students working on skills in the classroom and projects with their associated CTE teachers.

**CARPENTRY CONSTRUCTION TECHNOLOGY**

**A passing grade is a prerequisite for advancement to the next level in Carpentry Construction classes.**

**8761 Intro to Carpentry Construction- Grades 9,10,11 (1 cr.)**

Students will be taught safe handling and operation of hand and power construction tools. Our main focus will be placed on the safe handling and uses of a wide variety of materials. Through the use of hands-on activities students will learn proper building techniques and code requirements along with gaining an appreciation and respect for the construction trades.

**8763 Carpentry Construction Technology 2- Grades 10, 11, 12 (2 cr.)**

Students will gain knowledge and skill of framing techniques, roof construction, and exterior finishes. Students will study a variety of materials and their functions. Fabrication installation methods and techniques will be covered with constructive hands-on building experiences. In the second semester students will learn basic technical drafting principles, which will include geometric construction and orthographic projection. Students will be introduced to basic masonry and concrete construction. Various principles, styles, and methods will be covered with practical hands-on building experiences. This is a double period class each semester.

**8765                                      Carpentry Construction Technology 3 - Grades 11,12 (2 cr.)**

Students will be introduced to Architectural Drafting with a main focus on plot plans, floor plans, and elevation drawings along with reading and interpreting blueprints. Students will also focus on a more in-depth study of masonry principles and materials. These principles and materials along with their applications will be learned through practical hands-on building experiences. In the second semester students will be involved in designing and constructing the layout for a kitchen and bathroom. Cabinetry, countertops, plumbing, electrical, and interior finishing will be covered through practical hands-on experiences. This is a double period class each semester. Dual Enrollment course with Penn College

**8767                                      Carpentry Construction Technology 4- Grade 12 (2 cr.)**

Students will be involved in site preparation and layout using a transit and reading blueprints. Construction planning, scheduling, and management, along with basic job estimation will be covered. Students in both semesters will be involved in practical hands-on building experiences using knowledge and skills acquired throughout the Building Construction Technology curriculum. This is a double period class each semester.

**8769                                      Carpentry Construction Supervised Lab Experience - (.5 cr.)**

A construction lab designed to get additional construction experience in the shop and on the site, to be used with any of the building construction courses. Students may take labs for multiple years. Lab experience is made up of planned practical activities that support the development of the skills, tasks and abilities incorporated in the construction curriculum. It is designed to be an extended classroom/work based learning experience related to the industry. The various lab activities will include in-school and after-school projects, college and industry visitations, and SkillsUSA sponsored functions.

**8440                                      CTE Business Applications ( 0.5 cr.) ODD YEARS**

This course is designed to teach basic skills necessary for students to be successful when exiting the CTE programs. This course is designed to meet the business requirements listed on the CTE task grids for students in the General Agricultural, Agricultural Mechanization, Building Construction, Culinary, Horticulture, and Engineering CTE programs. This course will be primarily project based with the students working on skills in the classroom and projects with their associated CTE teachers.

## **FAMILY & CONSUMER SCIENCE**

**8821                                      Child Development (1.0 cr.) ODD YEARS**

During the course of the year, students will have the opportunity to learn about the family unit, parenting readiness and responsibilities, the challenges of teen pregnancy and single parenthood, and prenatal development, the process of birth, care of the newborn, social, emotional, intellectual, and physical development of infants, toddlers, and preschoolers. The students will have the opportunity to engage in a simulated child care experience and observe child care for multiple age groups.

**8823                                      Child Care - Grades 10, 11, 12 (2.0 cr.)**

Students In this program will have the opportunity to experience hands-on child care. The students will be placed at a local child care facility to develop experience working with infants, toddlers, and preschoolers. This program provides an opportunity for students to explore their interest in and aptitude for a child care career. Students will also be required to complete weekly assignments in an online course. Excellent attendance is required and will be monitored. Students must be prepared to arrange their own transportation. Prerequisite: Child Development

**8835                                      Introduction to Foods (.5 cr.) EVEN YEARS**

This course is an introduction to the basic skills needed to gain an entry level position in a restaurant. Topics to be covered include kitchen safety and sanitation, safe food storage, reading a recipe and measurements, basic cooking principles, meal planning and preparation, as well as information on food choices and our food supply. Students will have the opportunity to have hands-on experience preparing appetizers, main dishes, vegetables, breads, desserts, and seasonal items.

**8841 Foods & Nutrition – Grades 9-12 (.5 cr.)EVEN YEARS**

This upper level course covers the nutritional needs of adolescents and adults in Relation to the Food Guide Pyramid. Students will explore the importance of maintaining a healthy lifestyle and making wise food choices. This course will cover nutrition requirement, safety and sanitation practices, and food preparation techniques. Additional topics to be covered include the role of nutrients, energy and metabolism, weight management, eating disorders, and food and fitness trends. Students will apply the practical knowledge gained from the classwork, creating healthy, balanced meals in our professional grade kitchen. Students will have the opportunity to research recipes, design meals, learn specific cooking techniques, and prepare a variety of healthy foods throughout the course

## CULINARY ARTS

**A passing grade is a prerequisite for advancement to the next level of Culinary Arts classes.**

**8833 Culinary Arts 1– Grades 10, 11, 12 (2.0 cr.)**

This course is an introduction to a career and technical program that provides students with the essential skills needed for employment in the food service industry and as a foundation for a postsecondary education in Culinary Arts. The course follows the ProStart curriculum, a national industry-recognized program, bringing together the restaurant industry and the classroom. From culinary techniques to management skills, ProStart's industry-driven curriculum provides real-life experience opportunities and builds practical skills and a foundation that will last a lifetime. This class brings real-world, hands-on experience, working in a commercial kitchen with industry standard, top of the line equipment. Students take what they have learned in the classroom and apply it through various catering experiences in and out of school as well as through opportunities such as Skills USA competitions and other culinary events.

**8843 Culinary Arts 2 – Grades 11, 12 (2.0 cr.)**

This course builds on the knowledge gained in Culinary Arts 1. Topics covered include advanced culinary skills development and application of skills learned in Culinary Arts 1 through exploration of more difficult recipes, requiring advanced skills and techniques. The students will explore regional American cuisine as well as international foods. Students in Culinary Arts 2 also take on the responsibility of creating recipes for desserts and specialty beverages to be sold in our coffee bar, Java Hive, as well as working as a barista on occasion. Through continued work with the ProStart curriculum, students also learn menu development and basic management skills for both front of house and back of the house operations. Students will continue to be involved in the retail food program and special catering functions. **(Prerequisite:** Culinary Arts 1) Dual Enrollment course with Penn College

**8845 Culinary Arts 3- Grade 12 (2.0 cr.)**

This course is designed as an advanced exposure to the culinary environment. It uses a commercially equipped kitchen as a learning laboratory while coordinating complementary educational opportunities within the food service community. It integrates the ProStart program and student activities within the school's existing curriculum, and focuses on the acquisition of culinary, business, technical, and problem-solving skills that will give students the tools to successfully continue their food service education and/or position themselves for success in a competitive food service environment. Students will be assigned leadership roles for the retail food program and be responsible for managing the library coffee café. This is a two-period class. **Prerequisite:** Culinary Arts 2

**8847 Culinary Arts Supervised Lab Experience- (1.0 cr.)**

Supervised culinary arts experience is made up of planned practical activities that support the development of the skills and competencies incorporated in the Culinary Arts Curriculum. There is no set classroom time for this class. The various lab activities will include in-school and after-school catering functions, working in the student-run café, college and industry visitations and SkillsUSA sponsored functions. This is a single period class and is open to second- and third-year culinary students.

**8440 CTE Business Applications ( 0.5 cr.)**

This course is designed to teach basic skills necessary for students to be successful when exiting the CTE programs. This course is designed to meet the business requirements listed on the CTE task grids for students in the General Agricultural, Agricultural Mechanization, Building Construction, Culinary, Horticulture, and Engineering CTE programs. This course will be primarily project based with the students working on skills in the classroom and projects with their associated CTE teachers.

## **PHYSICAL EDUCATION**

PE classes require a change of clothing. Students need a T-shirt, athletic shorts or sweatshirt and sweatpants in addition to sneakers. Lockers are available for students but they must supply their own combination locks.

**8991 Physical Education A (.25 cr)**

**8992 Physical Education B (.25 cr)**

Physical Education will be for 9<sup>th</sup> -12<sup>th</sup> graders per state standards. It will be a progressive curriculum with a wide variety of experiences in Physical Education that challenges the students, builds upon required skills and imparts additional skills necessary to remain healthy and active throughout life. This course will provide a variety of activities ranging from non-competitive to highly competitive activities and across a variety of categories such as team and individual sports, personal fitness, and outdoor and cooperative activities.

**8982 Health (11th grade) ( .25 cr)**

11th grade health will consist of lessons that provoke critical thinking skills on how to obtain and maintain positive levels of wellness. Relationships, disease prevention, levels of fitness, media information and consumer choices, decision making, CPR and goal setting will be the main topics of focus for the students. Real life application, written assignments, hands-on activities and guest speakers will reinforce the lecture content presented throughout the course.

**8983 Adaptive Physical Education - (1.0 cr.)**

Adapted PE is for identified students with extreme exceptionalities. The focus of this course will be on overall fitness development. The fitness center will be utilized to target aerobic stamina, balance, coordination, strength and flexibility components. The gym will also be used to expose the students to various lifetime activities. These activities will not only encourage lifelong movement, but they will also help promote positive interactions in cooperative situations and develop socialization skills that are both important life skills.

## **SCHOOL TO WORK**

**8100 School-to-Work A - Grade 11,12 (1.0 cr.)**

**8101 School-to-Work B – Grade 11,12 (1.0 cr.)**

School-to-Work is designed for students who would like to extend their learning experience into the workplace. Students must apply and go through a competitive interview process with one of the numerous employers that have agreed to participate in the program. Students will be required to work (7) hours a week to receive credit. Students are required to make up all work missed in their regular classes. The employer will determine employee's salary compensation, if any. Additional requirements for the STW Student are to complete a weekly log check and to complete a daily log.

## **CAREER AND TECHNICAL EDUCATION**

### **Articulation Agreements**

This is an agreement between secondary and postsecondary institutions that allow qualified programs and courses in the secondary to count for postsecondary education credits leading to an industry credential or certificate at the postsecondary level or an associate or baccalaureate degree. If you want to know what schools our programs have articulations with across PA you can look at [www.collegetransfer.net](http://www.collegetransfer.net). We have some out of state articulations depending on the program. Questions about this please talk with your guidance counselor.

### **Recruitment**

Wellsboro Area High School Career Technical Teachers and school counselors provide an eighth-grade parent/guardian evening for students to sign up for high school classes. The school counselors will present all the high school opportunities and highlight career technical educational opportunities with parents. Time will be spent talking about the "success in the new economy" – and that CTE is STEM in action. Parents and students will be encouraged to think more about helping their students identify skills, interests and abilities and providing career experiences to experiment before college. Additionally, students in the Spring of eighth grade will tour all the CTE programs at the high school and will be provided a presentation by each CTE teacher annually. Once students are in high school and part of a CTE program of study (POS) CTE teachers will serve as an advisor and aid them in reviewing their schedule to ensure students are able to complete the POS.

### **Career and Technical Education Curriculum Sequences**

The CTE Curriculum can prepare students for a smooth transition from our secondary CTE program into a postsecondary education program of study. Students are encouraged to take courses that challenge them and lead them on a pathway to postsecondary success. Technical sequences will meet the minimal technical core area competencies of articulated postsecondary institutions. The following courses with CIP codes have articulations with PA colleges and some of our programs have articulations with colleges outside of PA. This allows our students opportunities of receiving college credit for courses done while in high school.

### **SOAR**

SOAR is built on programs of study (POS) that incorporate secondary and postsecondary education elements and include coherent and rigorous academic and technical content aligned with Pennsylvania's challenging academic standards. The SOAR Articulation Agreement for advanced credit transfer is made possible when eligible postsecondary institutions and Pennsylvania secondary schools offering SOAR programs agree to the terms and conditions stated in the Perkins Statewide Articulation Agreement. See your guidance counselor for more information. <https://www.patrac.org/PA-SOAR-Programs>



**Agriculture General****CIP 01.1000**

An instructional program that generally describes the principles and practices of agricultural research and production and may prepare individuals to apply such knowledge and skills to the solution of practical agricultural problems. This program includes instruction in basic animal, plant, soil science and mechanization, animal husbandry, plant cultivation, soil conservation and mechanical technology. Instruction may include an emphasis in aquaculture, hydroponics, food science and/or environmental science.

**Industry-Recognized Credentials Available:**

OSHA Certification- Agriculture  
Dairy Leaders of Tomorrow  
National Tractor and Machinery Operator  
Youth for the Quality Care of Animals  
PA Pesticide Applicator Certification

**Agricultural Mechanics****CIP 01.0201**

This is an instructional program that prepares individuals to sell, select, and service agriculture or agribusiness technical equipment and facilities including computers, specialized software, power units, machinery, equipment, structures and utilities. Instruction in agriculture power units, mechanical systems, the planning and selection of materials for the construction of agriculture facilities, safe mechanical practices, water conservation, erosion control, and data processing systems.

**Industry-Recognized Credentials Available:**

OSHA Certification- Agriculture  
Outdoor Power Equipment Technical Certification  
OSHA Certification CareerSafe

**Culinary Arts****CIP 12.0508**

A three-year program, Culinary Arts provides students with classroom and hands-on experiences in large-scale food production. Students learn about food safety and proper preparation along with managing the school restaurant.

**Industry-Recognized Credentials Available:**

ServSafe/Manager Food Safety Certification  
ProStart National Certificate  
ProStart National Certificate and Achievement  
OSHA Certification CareerSafe

**Engineering Technologies/Technician Program****CIP 15.9999**

This program prepares individuals to apply knowledge and skills in the engineering field. Instruction includes, but is not limited to , safety, ethics, power, problem solving teamwork, engineering graphics, automated systems, fundamental electronics, and manufacturing systems as well as adhering to the Science, Technology, Engineering and Mathematics (STEM) Initiative.

**Industry-Recognized Credentials Available:**

OSHA Certification CareerSafe

### Carpentry/Carpenter Construction

CIP 46.0201

Students will be taught the safe handling and operation of hand and power tools. We will be emphasizing the safe handling and use of a wide variety of building materials. Using hands-on activities, students will learn proper building techniques and code requirements along with gaining an appreciation and respect for the Construction Trades.

Industry-Recognized Credentials Available:

OSHA Certification CareerSafe  
Fork Lift Operator

### Health Occupations

CIP 51.9999

This program prepares students to apply knowledge and skills in the health occupations. Instruction will be provided in the basic skills in a variety of areas associated with health occupations such as health and medical services, pharmaceutical and medical instruments and supplies. Instruction includes but is not limited to foundations of health (medical terminology); anatomy and physiology; legal, ethical and economic aspects of health care; clinical laboratory procedures; basic health occupational skills; aseptic techniques; OSHA regulations; and infection control. Clinical education is an integral part of the program. Science and math taught by certificated science and math teachers will be coordinated and deemed essential for students to successfully reach their career objectives

Industry-Recognized Credentials Available:

Heartsaver CPR- American Heart Association

### Agriculture General ( 4 year program)

CIP: 01.1000

Subject – Hours	Grade 9 – Hours	Grade 10 – Hours	Grade 11 – Hours	Grade 12 - Hours
English (4)	9 English or 9 Honors English	10 English or 10 Honors English	11 English or 11 Honors English	12 English or AP English and AP Composition
Math (4)	Any sequence of math courses	<i>Geometry</i>		
Science (4)	Foundations of Science or Keystone Biology	Keystone Biology or Chemistry	Chemistry or Science and Technology	<i>Physics; Physics; or Honors Physics Advanced Biology Plant Science Animal Science</i>
Social Studies (4)	World History	American History or Honors American History	Government & Economics Honors Government & Economics	Applied Psychology Dual Enrollment Psychology Sociology Criminal Fiction Justice Education AP Government
Humanities	Music	Intro to Art		
Physical Education	Physical Education	Physical Education	Health & Physical Education	Physical Education
TECHNICAL –	Intro to Ag.	Animal/Plant Science 1	Animal/Plant Science I	Intro to Foods
	Woodworking 1 or Metal 1	Natural Resource Management	Small Engines and Electricity	SAE .5 cr Ag Business or CTE Business Applications.5 cr
	SAE .5cr Ag Leadership .5cr	SAE 1.0cr	SAE 1.0 cr	Environmental Science

### Agricultural Mechanics ( 4 year program)

CIP: 01.0201

Subject – Hours	Grade 9 – Hours	Grade 10 – Hours	Grade 11 – Hours	Grade 12 - Hours
<b>English (4)</b>	9 English or 9 Honors English	10 English or 10 Honors English	11 English or 11 Honors English	12 English or AP English and AP Composition
<b>Math (4)</b>	Any sequence of courses	<i>Geometry</i>		
<b>Science (4)</b>	Foundations of Science or Keystone Biology	Keystone Biology or Chemistry	Chemistry or Science in Technology or 1.0 credit of science	1.0 credit of science
<b>Social Studies (4)</b>	World History	American or Honors American History	Government & Economics Honors Government & Economics	Applied Psychology Dual Enrollment Psychology Sociology Crimes, Courts Justice Education AP Government
<b>Humanities</b>	Music	Intro to Art	Personal Finance	
<b>Physical Education</b>	Physical Education	Physical Education	Health & Physical Education	Physical Education
<b>TECHNICAL – 1320 Hours</b>	Intro to Ag.	Leadership/FFA and SAE or Natural Resource Management	Leadership/FFA and SAE or NRM	Environmental Science
	Woodworking 1 or Shop Skills	Electricity	Wood I or Wood II	Small Engines and Shop Maintenance
	Drafting	Carpentry Construction I	Metal	CTE Business Applications
				School to Work

### Culinary Arts ( 3 year program)

CIP: 12.0508

SUBJECT	Grade 9	Grade 10	Grade 11	Grade 12
<b>MATH</b>	Any sequence of four credits of Mathematics			
<b>ENGLISH (4.0 Credits)</b>	9 English 9 Honors English	10 English or 10 Honors English	11 English or 11 Honors English	12 English or AP English and Comp
<b>SCIENCE (4.0 Credits)</b>	Foundations of Science or Keystone Biology	Keystone Biology or Chemistry	Chemistry or Science and Technology	1.0 Science Credit
<b>SOCIAL STUDIES (4.0 credits)</b>	World History	American History or Honors American History	Government & Economics Honors Government & Economics	1.0 Social Studies Credit
<b>HUMANITIES (2.5 credits)</b>	Music	Intro to Art		
<b>PHYSICAL EDUCATION (2.0 Credits)</b>	Physical Education	Physical Education	Health and Physical Education	Physical Education
<b>TECHNICAL</b>		Culinary Arts 1	Culinary Arts 2 Culinary Lab	Culinary Arts 3 Culinary Lab

**Engineering Technologies/Technician (3 year program)**

**CIP: 15.9999**

Subject – Hours	Grade 9 – Hours	Grade 10 – Hours	Grade 11 – Hours	Grade 12 - Hours
TECHNICAL		Engineering 1	Engineering 2	Engineering 3
		Drafting 1	Electricity and Plumbing	Small Engines and Shop Maintenance
		Computer Programming	Science Technology and Society	Engineering Trades Supervised Experience
			Drafting 2	
English (4)	9 English or 9 Honors English	10 English; 10 Honors English	11 English or 11 Honors English	12 English or AP English and AP Composition
Math (4)	Any sequence of four credits of Mathematics.			
Science (4)	Foundations of Science or Keystone Biology	Keystone Biology or Chemistry	Chemistry or Science and Technology	CP Physics or Honors Physics
Social Studies (4)	World History	American History or Honors American History	Honors Government and Economics or Government and Economics	1.0 credit of classes
Humanities	Music	Intro to Art		
Physical Education	Physical Education	Physical Education	Health & Physical Education	Physical Education

**Carpentry/Carpenter Construction (3 year program)**

**CIP: 46.0201**

SUBJECT	Grade 9	Grade 10	Grade 11	Grade 12
<b>MATH</b>	Any sequence of four credits of Mathematics.			
<b>ENGLISH (4.0 Credits)</b>	9 English or 9 Honors English	10 English or 10 Honors English	11 English or 11 Honors English	12 English or AP English and AP Composition
<b>SCIENCE (4.0 Credits)</b>	Foundations of Science or Keystone Biology	Keystone Biology or 1.0 credit of science	1.0 credit of science	1.0 of science
<b>SOCIAL STUDIES (4.0 credits)</b>	World History	American History or Honors American History	Government & Economics Honors Government & Economics	(Must take 1.0 credit of classes)
<b>HUMANITIES (2.5 credits)</b>	Intro to Art Music			
<b>PHYSICAL EDUCATION (2.0 Credits)</b>	Physical Education	Physical Education	Health & Physical Education	Physical Education
<b>TECHNICAL</b>		Carpentry Construction 2 Electricity .5	Carpentry Construction 3	Carpentry Construction 4

### Health Occupations (3 year program)

CIP: 51.9999

SUBJECT	Grade 9	Grade 10	Grade 11	Grade 12
<b>MATH</b>	Any sequence of four credits of Mathematics.			
<b>ENGLISH</b> (4.0 Credits )	9 English or 9 Honors English	10 English or 10 Honors English	11 English or 11 Honors English	12 English or AP English and AP Composition
<b>SCIENCE</b> (4.0 Credits)	Foundations of Science or Keystone Biology	Keystone Biology or 1.0 credit of science	1.0 credit of science	1.0 of science
<b>SOCIAL STUDIES</b> (4.0 credits )	World History	American History or Honors American History	Government & Economics Honors Government & Economics	(Must take 1.0 credit of classes)
<b>HUMANITIES</b> (2.5 credits )	Intro to Art Music		Personal Finance	
<b>PHYSICAL EDUCATION</b> (2.0 Credits)	Physical Education	Physical Education	Health & Physical Education	Physical Education
<b>TECHNICAL</b>		Health Occupations 1 Medical Terminology	Health Occupations 2	Health Occupations 3 Health Tech Lab1 Health Tech lab 2

## WELLSBORO ONLINE ACADEMY

Through Wellsboro Online Academy [WOA], the Wellsboro Area School District expands learning opportunities for ALL students by using available technology to provide individualized instruction in a flexible learning environment.

### Online Schedule Options

- **Full online schedule** - Students choosing this option are enrolled in all of their courses online; they are taught by WASD teachers through web technologies. This option allows students to do 100% of their education from home and does not require them to come into school for any part of the course.
- **Supplemental online schedule** - Students choosing this option are enrolled in one or more online courses to supplement their traditional academic schedule. Students may choose to be scheduled for a study hall to work on their online courses in school or schedule part of their day at home and part of their day at school depending on what meets the needs of the student. Some students take advantage of this option to pursue work opportunities, credit recovery or credit advancement. Other students use this opportunity to free up time within their regular schedule to take electives they may not have had room for otherwise.

### Enrollment

The Wellsboro Online Academy classes follow a similar schedule to the in-school classes. Most WOA classes are full year courses, but there are some that are set up to be completed in a semester. Although we encourage students to enroll at the beginning of each semester to allow for an increased chance of success in their online courses, we operate on an open enrollment system to meet specific needs of students.

### Orientation

- **New Students** - Students who are new to the Wellsboro Online Academy will be required to attend an orientation session with their parents. This session will review the policies and procedures of the Wellsboro Online Academy, login information and site navigation.  
**Returning Students** - Students enrolling in one or more online courses will be required to meet with Mrs. Giarth, Online Lead Teacher or their Guidance Counselor to review Wellsboro Online Academy orientation

### Curriculum

The Wellsboro Online Academy utilizes the Accelerate Education Curriculum and Learning Management system for grades K-12. This curriculum has a robust library of standards aligned courses. In addition, Accelerate Education provides a wide array of courses to support career pathways and AP level curriculum. Students should consult their guidance counselor about the online courses available.

### Course Completion / Pacing Guides

The Wellsboro Online Academy classes all follow a similar format. Each course has a course pacing guide that outlines due dates for all graded assignments, projects, and assessments throughout the semester. Although students are encouraged to adhere to the pacing guide, late assignments are accepted until the end of each quarter (9 week marking period). At the end of each quarter, grades will go into the gradebook as final to begin the second quarter for each semester.

### Attendance

While all Wellsboro Online Academy classes are asynchronous (students may work at their own pace and are not required to login at specific times for live lessons), students are expected to log into their online courses consistently to maintain progress. Teachers will monitor student progress weekly. Attendance requirements will be fulfilled for students who are completing assigned work with passing scores. For students not completing required work or receiving failing scores, a weekly report will be generated that provides documentation of the hours the student has logged into each course. Illegal absences will be recorded for days in which a student does not login.

## High School Planning Worksheet

This course selection planning sheet is to help you decide what courses you would like to take over the next 4 years to make sure everything will fit.

	9th	10th	11th	12th
English (4.0 cr)				
Math (4.0cr)				
Social Studies (4.0cr)				
Science (4.0cr)				
PE and Health (2.0cr)				
Arts and Humanities (2.0cr) <small>Art.5 and Music.5</small>				
Personal Finance (.5 cr)				
Career Electives (6.5 cr)				