

WAYNESBURG CENTRAL HIGH SCHOOL



Course Selection Handbook

**School Year
2025-26**

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WELCOME STATEMENT

Welcome to Waynesburg Central High School. As a school in the Central Greene School District, our mission is to provide a comprehensive education for all students to become successful critical thinkers as they enter a global society. This post high school life might include plans to attend a four-year college, enroll in a two-year program, take advanced training at a business, trade, or technical school, enter the work force, or assume domestic responsibilities. Whatever your choice, WCHS has the best possible courses to prepare you.

You can make good use of this booklet by reading it thoroughly and discussing career options with your parents, friends, teachers, or counselors. You will find a list of the recommended courses for your particular interest. We strongly suggest that you adhere as closely as possible to our recommendations. If you are unable to make a definite decision, we suggest that you contact one of the guidance counselors, who would be more than willing to help with your choices.

Remember, students must earn 28 credits in order to graduate. That should be easy to do since all students will be required to take eight credits each year. Use the *Five Year Plan* at the back of this booklet to help with your planning. A suggested course of study is outlined for college preparations, career preparations with a career-tech center component, and for career prep with in-school courses. We have also provided a course description for each of the courses offered at WCHS to help you select required and elective courses.

TO THE PARENTS: We will make every effort to make sure that your child is scheduled properly. However, we still recognize the importance of parental input. Therefore, we are asking you to sign the bottom of the color-coded course selection sheet indicating that you have read and approved your child's choices for the upcoming school year. Requests for schedule changes will not occur after the handwritten, color-coded Course Selection sheet with signatures is processed during scheduling.

TO THE STUDENTS: It is your responsibility to make sure that you complete all the required courses for graduation. The guidance office makes periodic checks to see that you are on target, but it is virtually impossible to check everyone. We suggest a visit to the guidance office each year to verify your total credits. Any time you fail a required course, it is your responsibility to make this course up in summer school or through our online credit recovery program. Once the color-coded course selection sheet is turned in with signatures of parents, teachers, and school administrators, no schedule changes will be permitted.

GRADUATION REQUIREMENTS

28 Credits Total

English 4	Science 3 ½	Social Studies 3 ½	Math 3
Computer Ed. and Personal Finance 1	PE/Health/ Dr. Ed 3	Electives 10	Grad Project ✓

ADVANCED PLACEMENT COURSES

We will be offering advanced placement courses in the following areas:

AP English Language and Composition	AP United States History	AP Calculus
AP English Literature	AP European History	AP Physics
AP Psychology	AP Statistics	AP Biology

In May, students enrolled in any of the above courses must take the AP exam. Students enrolled in multiple AP courses are encouraged to sit for the exam in each class completed. If a student has more than two AP courses, he/she will only be required to take a maximum of two exams. Students may take an AP Exam for any course not listed above as long as Guidance is notified and payment is made by October 1st of the testing school year.

A successful score of 3 or better may be accepted by some colleges for credit. The cost of each exam is approximately \$94.00. A payment plan to the school is available.

Some AP classes require summer preparation before the course begins. No more than four AP courses may be taken in any combination in a single school year without prior administrative approval. **Requests for schedule changes will not occur after the handwritten Course Selection sheet with signatures is turned in to Guidance.**

COLLEGE COURSES

Students in 12th grade may choose to take college courses on a local college/university campus or online while still enrolled at Waynesburg Central High School. These courses must be approved in advance by the high school administration.

If a college course appears on a student's transcript for credit, then the course must be assigned quality points based on the grade earned. If the student is seeking credit towards graduation for this course, then the course must appear on their transcript and be assigned quality points.

CLASS RANK POLICY AND GRADUATION HONORS

The below changes will go into effect with the 2024-2025 school year beginning with the Class of 2026.

These requirements are in effect in order to be recognized at our graduation ceremony as Summa Cum Laude (4.0), Magna Cum Laude (3.99-3.75) and Cum Laude (3.749-3.5)

- Full WCHS course schedule (8 credits) all four (4) years, except transfer students (Minimum of 32 credits)
- Score of Proficient or Advanced on all three (3) Keystone Exams
- At least three (3) AP courses or three (3) accredited college course pre-approved by guidance
 - AP Biology
 - AP Calculus
 - AP European History
 - AP English Language
 - AP Literature
 - AP Physics
 - AP Psychology
 - AP Statistics
 - AP US History
- At least two (2) Advanced or Honors Core Courses
 - Honors English 9
 - Honors World Cultures
 - Advanced Biology
 - Advanced Algebra
 - Honors English 10
 - Honors Chemistry
- Minimum of Functions, Statistics and Trigonometry in Math
- Minimum of four (4) courses in English, Science, and Math and three and a half (3.5) courses in Social Studies

eLearning courses may not be used as a substitute for any AP, Honors or Advanced Course.

JOB EXPERIENCE

Seniors who have accumulated all required credits for graduation may choose to gain valuable job experience and attend high school at the same time. Work Release is an option to consider that would shorten the school day and allow for on-the-job training and pay. Any student requesting Work Release must supply a letter from his/her employer and parent granting permission to participate in the program. The student will be required to submit a copy of his/her pay stub every two weeks to the school.

SUPPORTIVE SERVICES

Special Education services are provided for students who have been identified with special needs. The type and quantity of services are determined by the individual strengths and needs of the student (I.E.P.). Examples of special education services include gifted support, learning support, speech and language support, hearing support, and life skills support.

Additionally, in compliance with state and federal law, the related aids, services or accommodations which are needed to provide equal opportunity to participate in and obtain the benefits of the school program and extracurricular activities to the maximum extent appropriate to the student's abilities will be provided to each protected handicapped student without discrimination or cost to the student or family. In order to qualify as a protected handicapped student, the child must be of school age with a physical or mental disability that substantially limits or prohibits participation in or access to an aspect of the school program.

If it is suspected that a student may be eligible for special education services as a "protected handicapped student," a written request for evaluation stating the concerns should be directed to the building principal.

For further information on the evaluation procedures or provision of services to special education or protected students, contact the building principal or the Office of the Superintendent at 724-627-8151.

THINGS TO KEEP IN MIND

1. Students must take enough classes to fill eight complete periods (with the exception of seniors with approved work releases).
2. All students will take a math course each of their 9th, 10th, and 11th grade years.
3. In 9th grade, Phys Ed is taken opposite of Health, and Ecology is taken opposite of Computer Education.
4. In 10th grade, students will take one semester of Driver's Ed adjacent to one semester of Phys Ed.
5. In 11th grade, students will take one semester of Personal Finance adjacent to one semester of Phys Ed.
6. In 12th grade, students will take one semester of Economics adjacent to one semester of Phys Ed.
7. Students in the Career Prep Path who do not attend the Career & Technology Center are reminded that they are to continue to schedule classes in their chosen career component. In other words, if you were enrolled in Accounting in 10th grade, you should take the next classes in the sequence in 11th grade.
8. No more than four AP courses may be taken in any single year without prior building administrative approval and parent signatures.
9. Students who take AP courses are required to take the AP Exam.
10. If you failed any required courses, it is your responsibility to make these courses up in summer school or through our online credit recovery program.
11. Requests for schedule changes will not occur after the handwritten, color-coded Course Selection sheet with signatures is processed during scheduling. It is important that the students and the parents carefully select a program of study that is best suited for the students' needs.
12. After meeting with your guidance counselor, talking with your parents, and gaining the required signatures from teachers, scheduling will take place according to your grade level and current class rank. Students who fail to turn in their schedule to the guidance office by the due date previously given will schedule last.
13. If a student is attempting to substitute a non-WCHS math course for a prerequisite, the student must earn a C or higher in the course and score a 70% or greater on the final exam for the corresponding WCHS course.
14. The building principal reserves the right to make adjustments to the schedules and balance class rosters after the scheduling process has concluded.

COLLEGE PREP SUGGESTED COURSES

Colleges and universities not only evaluate you by your grades, but also on the quality of the courses taken. If you are planning to attend a four-year college degree program, the following courses are highly recommended:

	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	English 9 or Honors English 9	English 10 or Honors English 10	English 11 or AP English Lang	English 12 or AP English Lit
Social Studies	Civics	World Cultures or Honors World Cultures	US History or AP US History	Economics* and AP Euro History
Science	Integrated Science and Ecology*	Advanced Biology	Anatomy, Chemistry, AP Biology, Honors Chemistry or Physics	Anatomy, Chemistry, Physics, Honors Chemistry, AP Biology, or AP Physics
Math	Chicago Algebra, Chicago Geometry, or Advanced Algebra	Geometry, Advanced Algebra, or FST	Advanced Algebra, FST, AP Statistics or Pre-Calculus	College & Career-Prep Algebra, FST, AP Statistics, Pre-Calculus, or AP Calculus
Phys Ed	Phys Ed* & Health*	Phys Ed* & Driver's Ed*	Phys Ed*	Phys Ed*
Elective	Computer Education*		Personal Finance*	

* Required Semester Course

CAREER PREP WITH GREENE CO. CAREER-TECHNICAL CENTER ENROLLMENT

	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	English 9	English 10	English 11	English 12
Social Studies	Civics	World Cultures	American History	Economics*
Science	Integrated Science and Ecology*	Biology	Physical Science or Chemistry	Chemistry
Math	Algebra	Geometry	Algebra II	College & Career Prep Algebra
Phys Ed	Phys Ed* & Health*	Phys Ed* & Driver's Ed*	Phys Ed*/Personal Finance*	Phys Ed*
Elective	Computer Education*	Career-Tech	Career-Tech	Career-Tech
Elective	Elective	Career-Tech	Career-Tech	Career-Tech
Elective	Elective	Career-Tech	Career-Tech	Career-Tech

* Required Semester Course

GREENE CO CAREER-TECHNICAL CENTER COURSES OFFERED (10th, 11th, 12th grade offerings)

Automotive Collision
Automotive Technology
Building Construction Occupations
Computer Information Technology
Cosmetology
Culinary Arts

Electrical Occupations
Emergency Services
Health Assistant
Precision Machining
Welding/Fabrication

CAREER PREP SUGGESTED COURSES

The Career Prep pathway is for students not pursuing a college career and not attending the Greene County Career and Technical Center. It is designed to channel our students into Business, Agriculture, Industrial Technology, or Consumer Science fields. Remember, when a student graduates from Waynesburg Central High School, we want him/her to be prepared for a productive future. Students should consider following one of the four career paths listed below by taking a minimum of two courses in each grade 10, 11, and 12.

	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	English 9	English 10	English 11	English 12
Social Studies	Civics	World Cultures	American History	Economics*
Science	Integrated Science and Ecology*	Biology	Physical Science or Chemistry	Chemistry
Math	Algebra	Geometry	Algebra II	College & Career-Prep Algebra
Phys Ed	Phys Ed* & Health*	Driver's Ed* & Phys Ed*	Phys Ed*/Personal Finance*	Phys Ed*
Elective	Computer Education*	Career Path Elective	Career Path Elective	Career Path Elective
Elective	Elective	Career Path Elective	Career Path Elective	Career Path Elective
Elective	Elective	Career Path Elective	Career Path Elective	Career Path Elective

* Required Semester Course

Career Path Elective Possibilities at WCHS

Business Education	Agriculture Education	Industrial Technology
Comp Education Intro to Business Investment Technology Accounting I Accounting II Personal Finance Sports & Entertainment Marketing Computer Science I and II	Intro to Agriculture Advanced Ag Science I, II, III Parli-Pro I/II/III & Public Speaking Floral Design Food Science and Technology Forestry & Natural Resources Horticulture/Greenhouse SAE Agronomy & Soils Agricultural Business Management	Basic Industrial Tech Construction Technology Manufacturing Systems I Manufacturing Systems II Technical Drafting Graphic Arts Design Technology Natural Resources Computer-Aided Drafting & Design CAD II Advanced CAD

COURSE SELECTION BY GRADE LEVEL: 9

Grade	Required	Electives (choose 2 credits)
9	<ul style="list-style-type: none"> ▪ English 9 or Honors English 9 ▪ Civics ▪ Algebra, Chicago Algebra, Chicago Geometry, or Advanced Algebra ▪ Integrated Science ▪ Computer Education* /Ecology* ▪ Phys Ed*/ Health* ▪ 2 electives 	<p>Creative Writing</p> <p>French I Spanish I</p> <p>Accounting Intro to Prog & Computer Science Intro to Business Investment Technology</p> <p>Intro to Engineering Design Computer-Aided Drafting & Design Basic Industrial Technology</p> <p>Intro to Agriculture Parli-Pro I & Public Speaking Agronomy & Soils (2026-27) Ag Business Management (2025-2026) Forestry & Natural Resources I SAE</p> <p>Marching Band Concert Band Concert Choir Technical Theatre Production</p> <p>Art I</p> <p>Signatures are required for the following courses:</p> <p>All math courses signed by current math teacher. All modern languages signed by current English teacher. Creative Writing signed by current English teacher. Music signed by music teacher, if applicable.</p>

* Required Semester Course

COURSE SELECTION BY GRADE LEVEL: 10

Grade	Required	Choices (choose 3 credits)
10	<ul style="list-style-type: none"> ▪ English 10 or Honors English 10 ▪ World Cultures or Honors World Cultures ▪ Biology or Advanced Biology ▪ Geometry, Chicago Geometry, Advanced Algebra, or FST ▪ Phys Ed*/ Driver's Ed* ▪ 3 electives 	<div style="display: flex; flex-wrap: wrap;"> <div style="flex: 1; min-width: 200px;"> <p>Creative Writing I, II TV Workshop I Journalism - Newspaper Journalism - Yearbook</p> <p>French I Spanish I, II</p> <p>Accounting I, II Intro to Business Investment Technology Prog & Computer Science I, II Sports & Entertainment Marketing</p> <p>Computer-Aided Drafting I, II Technical Drafting Graphic Arts Design Technology Construction Technology Manufacturing Systems I Basic Industrial Technology</p> <p>Chemistry</p> <p>Intro to Agriculture Advanced Ag I Parli-Pro I/II & Public Speaking Floral Design Forestry & Natural Resources I, II Agronomy & Soils (2026-27) Ag Business Management (2025-2026) Horticulture/Greenhouse SAE</p> </div> <div style="flex: 1; min-width: 200px;"> <p>Marching Band Concert Band Concert Choir Technical Theatre Production</p> <p>Art I Art II</p> <p>Elementary Tutoring</p> <p>Fitness</p> <p>Intro to Engineering Design</p> <p>CTC Courses (3 credits)</p> </div> </div>

Signatures are required for the following courses:

Math, English, History, Modern Languages, and Science require the signature of the student's current teacher.

Elective courses require the signature of the receiving teacher.

* Required Semester Course

COURSE SELECTION BY GRADE LEVEL: 11

Grade	Required	Choices (choose 3.5 credits)
11	<ul style="list-style-type: none"> ▪ English 11 or AP Literature or AP Language ▪ American History or AP US History ▪ Physical Science, Anatomy, Chemistry, AP Biology, Honors Chemistry, and/or Physics ▪ Algebra II, Advanced Algebra, FST, AP Statistics or PDM ▪ Phys Ed*/Personal Finance* ▪ 3 electives 	<div style="display: flex; flex-wrap: wrap;"> <div style="flex: 1; min-width: 200px;"> <p>Creative Writing I, II, III TV Workshop I, II Journalism - Newspaper Journalism - Yearbook</p> <p>Intro to Forensic Science Zoology</p> <p>Spanish I, II, III French II</p> <p>Art History AP European History AP Psychology</p> <p>Accounting I, II Intro to Business Investment Technology Prog & Computer Science I, II Sports & Entertainment Marketing</p> <p>Computer-Aided Drafting I, II Advanced CAD Technical Drafting Graphic Arts Design Technology Construction Technology Manufacturing Systems I, II Natural Resources Management</p> <p>Intro to Agriculture Advanced Ag Science I, II Parli-Pro I/II/III & Public Speaking Floral Design I, II Forestry & Natural Resources I, II, III Horticulture/Greenhouse SAE Agronomy & Soils (2026-27) Ag Business Management (2025-2026)</p> </div> <div style="flex: 1; min-width: 200px;"> <p>Marching Band Concert Band Concert Choir Technical Theatre Production</p> <p>Art I Art II Advanced Studio Art</p> <p>Elementary Tutoring</p> <p>Fitness</p> <p>Intro to Engineering Design</p> <p>CTC Courses (3 credits)</p> </div> </div>

Signatures are required for the following courses:

Math, English, History, Modern Languages, and Science require the signature of the student's current teacher.

Elective courses require the signature of the receiving teacher.

* Required Semester Course

COURSE SELECTION BY GRADE LEVEL: 12

Grade	Required	Choices (choose 6)
12	<ul style="list-style-type: none"> ▪ English 12 or AP Literature or AP Language ▪ Phys Ed*/ Economics* ▪ 6 electives 	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <p>Creative Writing I, II, III TV Workshop I, II, III Journalism - Newspaper Journalism - Yearbook</p> <p>Economics Art History AP US History AP European History AP Psychology</p> <p>Chicago Algebra Advanced Algebra FST AP Statistics PDM AP Calculus College & Career Prep Algebra</p> <p>Physics Chemistry Anatomy Intro to Forensic Science Honors Chemistry AP Biology AP Physics Zoology</p> <p>Spanish I, II, III, IV French II</p> <p>Accounting I, II Intro to Business Investment Technology Prog & Computer Science I, II Sports & Entertainment Marketing</p> <p>Computer-Aided Drafting I, II Advanced CAD Technical Drafting Graphic Arts Design Technology Construction Technology Manufacturing Systems I, II Natural Resources Management</p> </div> <div style="width: 50%;"> <p>Advanced Ag Science I, II, III Parli-Pro I/II/III & Public Speaking Floral Design I, II Forestry & Natural Resources I, II, II Agronomy & Soils (2026-27) Ag Business Management (2025-2026) Intro to Agriculture Horticulture/Greenhouse SAE</p> <p>Marching Band Concert Band Concert Choir Technical Theatre Production</p> <p>Art I Art II Advanced Studio Art</p> <p>Elementary Tutoring</p> <p>Fitness</p> <p>Intro to Engineering Design</p> <p>Work Release</p> <p>CTC Courses (3 credits)</p> </div> </div> <p>Signatures are required for the following courses:</p> <p>Math, English, History, Modern Languages, and Science require the signature of the student's current teacher.</p> <p>Elective courses require the signature of the receiving teacher.</p>

* Required Semester Course

COURSE DESCRIPTIONS

ENGLISH REQUIREMENTS	
ENGLISH 9	R
<i>Prerequisite:</i> none	<i>Open to Grade:</i> 9
This course focuses on vocabulary building, sentence/paragraph structure, composition, the study of the elements of a short story and a novel, interpreting/analyzing reading selections of various genres, research skills, and verbal skills. Independent research, reading and writing projects will be completed.	
ENGLISH 10	R
<i>Prerequisite:</i> English 9	<i>Open to Grade:</i> 10
This course focuses on the comprehension and analysis of literature: short story, novel, poetry, drama, and nonfiction. It includes a review of basic grammar, vocabulary, sentence/paragraph structure, composition, research skills, and oral communication skills.	
Students will take the Keystone Literature Exam upon completion of this course.	
ENGLISH 11	R
<i>Prerequisite:</i> English 10 or AP Prep	<i>Open to Grade:</i> 11
This course will focus on American literature, grammar, vocabulary development, sentence/paragraph structure, and composition. In addition, students will complete a number of career-related assignments. These include exploring careers, composing an application essay or cover letter, creating a resume, and completing a research project.	
ENGLISH 12	R
<i>Prerequisite:</i> English 11 or AP Language/AP Literature	<i>Open to Grade:</i> 12
This course focuses on a study of English literature; vocabulary development; reading, writing, speaking, and listening skill development; career preparation including interviewing skills; research skills; advanced grammatical content.	
ENGLISH ELECTIVES	
HONORS ENGLISH 9 (may replace requirement for English 9)	E
<i>Prerequisite:</i> maintained an A for all four quarters in 8th grade ELA, earned Advanced on ELA PSSA Grade 7, and signature of 8th grade English teacher	<i>Open to Grade:</i> 9
This course is designed for highly motivated 8th grade students aspiring to enter the AP programs at WCHS and/or who excel in reading comprehension and writing skills. This course will focus on PSAT/SAT skills and vocabulary; analyzing non-fiction, short stories, novels, poetry, drama, and other literary genres; research skills and verbal skills. Independent research, reading and writing assignments and projects will also be completed.	
HONORS ENGLISH 10 (may replace requirement for English 10)	E
<i>Prerequisites:</i> grade of A or B in English 9 or Honors English 9, signature of previous English teacher	<i>Open to Grade:</i> 10
This transitional course is designed for highly motivated 10 th grade students aspiring to enter the AP English and/or AP History programs. It emphasizes the reading-writing connection, fluency, analytical thought, stylistic elements in multicultural genres of literature, SAT vocabulary, producing creative and critical writings, and oral presentations. A research paper will be completed.	
Students will take the Keystone Literature Exam upon completion of this course.	

<p>AP ENGLISH LANGUAGE AND COMPOSITION (may replace requirement for English 11 or 12) E</p> <p><i>Prerequisites:</i> grade of A or B in Honors English 10 or AP Lit, signature of previous English teacher. Grade of A in English 10 or English 11 course and signature of previous teacher. <i>Open to Grades:</i> 11, 12</p> <p>Note: Students must take the AP exam. (see page 4)</p> <p>This course focuses on a connection between reading and writing mature prose from a variety of styles and authors. All writing assignments will contribute to the students' abilities to write competently in future college courses. A research paper may be completed. AI generated assignments will receive a zero grade. Repeated infractions may result in removal from class.</p> <p><i>Note:</i> An AP class may require summer preparation before the course begins. No more than four AP courses may be taken in any combination without prior administrative approval. Requests for schedule changes will not occur after the handwritten Course Selection sheet with signatures is returned to the office.</p>
<p>AP ENGLISH LITERATURE AND COMPOSITION (may replace requirement for English 11 or 12) E</p> <p><i>Prerequisites:</i> grade of A or B in AP Lang or Honors English 10 and signature of previous teacher. Grade of A in English 10 or English 11 course and signature of previous teacher. <i>Open to Grades:</i> 11, 12</p> <p>Note: Students must take the AP exam. (see page 4)</p> <p>This course will provide an in-depth study of short story, novel, poetry and drama. Students will compose numerous critical essays based on reading. AI generated assignments will receive a zero grade. Repeated infractions may result in removal from class.</p> <p><i>Note:</i> An AP class may require summer preparation before the course begins. No more than four AP courses may be taken in any combination without prior administrative approval. Requests for schedule changes will not occur after the handwritten Course Selection sheet with signatures is returned to the office.</p>
<p>CREATIVE WRITING (first semester or year) E</p> <p><i>Prerequisites:</i> a C or better in previous English class, signature of previous English teacher <i>Open to Grades:</i> 9, 10, 11, 12</p> <p>This is a course which involves writing fiction including poetry, a narrative, short stories, novels and plays. It involves the study of various pieces of literature to gain an understanding of technique and style. Some instruction will be in a workshop setting and include peer evaluation. Students may participate in writing contests.</p>
<p>CREATIVE WRITING II (first semester or year) E</p> <p><i>Prerequisites:</i> an A or B in Creative Writing, signature of Creative Writing teacher, No negative report card comment from Creative Writing I <i>Open to Grades:</i> 10, 11, 12</p> <p>This course involves writing and revising fiction in one or more of the following genres: poetry, short story, novel, creative nonfiction, and drama. It may include an exploration of the world of publishing. Students may create projects, read novels, and participate in writing contests. Workshop instruction and peer evaluation will be included.</p>
<p>CREATIVE WRITING III E</p> <p><i>Prerequisites:</i> an A or B in Creative Writing II, signature of Creative Writing II teacher, No negative report card comment from Creative Writing II <i>Open to Grades:</i> 11, 12</p> <p>This course involves studying and writing fiction, preparing it for publication and contests, creating queries for agents and publishers, and submitting work. Students may oversee the WCHS creative writing publication, <i>Writer's Block</i>.</p>
<p>TV WORKSHOP I (first semester or year) E</p> <p><i>Prerequisite:</i> signature of TV teacher <i>Open to Grades:</i> 10, 11, 12</p> <p>This course is an introduction to various methods of video production including: video camera and production equipment, aspects of composition, camera shots and movements, video analysis, script writing, storyboarding, audio, and digital editing. Students will also explore video production careers.</p>

TV WORKSHOP II (first semester or year)	E
<i>Prerequisites:</i> TV Workshop I, signature of TVWI teacher	<i>Open to Grades:</i> 11, 12
This course will take a more advanced approach to video production. Students will take a deeper look at creative camera shots and movements, script analysis and writing, composition, and editing to produce more complex video projects. Students will explore broadcast journalism and other video production careers.	
TV WORKSHOP III (first semester or year)	E
<i>Prerequisites:</i> TV Workshop I and II, signature of TVWII teacher.	<i>Open to Grade:</i> 12
This course will focus on advanced video production, script writing and broadcast journalism. Students will use digital editing systems to create advanced projects. Students will revisit career opportunities in the broadcast and film industry.	
JOURNALISM 1 - NEWSPAPER (first semester or year)	E
<i>Prerequisites:</i> recommendation from your English teacher or Creative Writing teacher, signature of Journalism teacher	<i>Open to Grades:</i> 10, 11, 12
Students will learn research skills, interviewing, copy, writing, and reporting in the journalistic style. They will work within an organizational structure that includes student editors to create and publish a variety of material on a variety of platforms.	
JOURNALISM 2 - YEARBOOK (first semester or year)	E
<i>Prerequisites:</i> recommendation from your English teacher or Creative Writing teacher, signature of Journalism teacher	<i>Open to Grades:</i> 10, 11, 12
This class will involve training in digital camera use, photo composition, photo editing, and yearbook page design. Students will also write yearbook articles, captions, and headlines. Students in this class will be responsible for planning, creating, producing, promoting, and selling the yearbook. Students will learn to work within an organizational structure that includes student editors and strict deadlines.	
SOCIAL STUDIES REQUIREMENTS	
CIVICS	R
<i>Prerequisite:</i> none	<i>Open to Grade:</i> 9
This course is a comprehensive study of the principles and practices of the democratic system with an emphasis on those issues as they relate to current events.	
Students will take the United States Citizenship and Immigration Services Test during this course.	
WORLD CULTURES	R
<i>Prerequisite:</i> Civics	<i>Open to Grade:</i> 10
Beginning of civilization, cultures of Greece and Rome, Renaissance, Dark Ages, Industrial Revolution, World Wars, Korean War and the Vietnam War.	
AMERICAN HISTORY	R
<i>Prerequisite:</i> World Cultures	<i>Open to Grade:</i> 11
History of the U.S. from the Civil War to the present and the changes in its geography and culture.	
ECONOMICS (one semester)	R
<i>Prerequisite:</i> none	<i>Open to Grade:</i> 12
This required course for seniors places an emphasis on the student developing an economic way of thinking and problem solving that can be used in their lives as consumers, savers, and members of the workforce, responsible citizens, and effective participants in the global economy. The course will introduce both basic and current economic issues. The course will study the law of demand, forms of business, labor unions, government finances, prices, competition, and banking institutions.	

SOCIAL STUDIES ELECTIVES

HONORS WORLD CULTURES (may replace requirement for World Cultures)

E

Prerequisites: grade of A or B in Civics, signature of Civics teacher

Open to Grade: 10

Any tenth grade world cultures student may sign up for honors world cultures. Those students enrolled in honors world cultures must satisfactorily complete the enhancements (*completed as independent work inside and outside of the classroom*) assigned by the teacher to be considered an honors student and have the designation appear on his/her transcript and permanent record. Students must maintain a C average or better and must remain in the honors course for the full year for this course to be successfully complete.

AP UNITED STATES HISTORY (may replace requirement for American History)

E

Prerequisites: A or B average in previous Social Studies and English courses, signature of previous English and World Cultures teachers

Open to Grades: 11, 12

Note: Students must take the AP exam. (see page 4)

Includes history from the Pilgrims to the age of modern industry – colonial heritage American Revolution through westward expansion, Civil War and post war reconstruction through the modern era. Student must maintain a C average to remain in the course. *Note:* An AP class may require summer preparation before the course begins. No more than four AP courses may be taken in any combination without prior administrative approval. Requests for schedule changes will not occur after the handwritten Course Selection sheet with signatures is turned in.

ART HISTORY

E

Prerequisites: signature of previous social studies teacher

Open to Grades: 11, 12

This course is designed to give students the opportunity to discover, appreciate, and acquire knowledge of art history through the ages, from the Classical era to contemporary times. The students will learn to examine and critically analyze major forms of artistic expression from classical and European cultures and understand their contributions to the arts. A variety of art media and styles will be studied as the students look at architecture, manuscripts, painting, drawing, printmaking and sculpture, as a reflection of a given civilization and time period.

AP EUROPEAN HISTORY

E

Prerequisites: A or B average in previous Social Studies course, signature of previous teacher

Open to Grades: 11, 12

Note: Students must take the AP exam. (see page 4)

A writing intensive class that examines the changes and trends in European civilization from the Renaissance to modern times. The class has frequent essay tests. *Note:* An AP class may require summer preparation before the course begins. No more than four AP courses may be taken in any combination without prior administrative approval. Requests for schedule changes will not occur after the handwritten Course Selection sheet with signatures is turned in.

AP PSYCHOLOGY

E

Prerequisites: A or B average in previous Social Studies and English courses, signature of previous English and Social Studies teachers

Open to Grade: 11, 12

Note: Students must take the AP exam. (see page 4)

AP Psychology is a writing intensive class that introduces and examines major ideas and concepts equivalent to an introductory college level course. This course requires a research paper, tests and quizzes with essay formats, note taking and frequent independent or group work. The AP psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. *Note:* This AP class requires summer preparation before the course begins. No more than four AP courses may be taken in any combination without prior administrative approval. Course content ranges from the biology of the human body to abnormal psychological disorders. Most importantly, students will discover and analyze why we do what we do. Requests for schedule changes will not occur after the signed, handwritten Course Selection sheet is submitted.

MATH COURSE SEQUENCING

- Chicago Advanced Algebra → Chicago FST → Chicago Pre-Calculus AND/OR AP Statistics → *AP Calculus AND/OR AP Stat*
 - Chicago Geometry → Chicago Advanced Algebra → Chicago FST → *Chicago Pre-Calculus AND/OR AP Statistics*
 - Chicago Algebra → Chicago Geometry → Chicago Advanced Algebra → *Chicago FST*
 - Algebra → Geometry → Algebra II → *College & Career Preparatory Algebra*
- *Italics* indicate an optional 4th math credit.
 - All students in grades 9, 10, and 11 must take a math course.
 - Prerequisites will be evaluated as of the end of first semester and reexamined at the end of second semester.
 - If a student does not earn a C or higher each semester in a Chicago course, he or she should repeat the course unless otherwise recommended by his or her teacher. Students repeating a course will earn a second credit if they improve their grade by 10%.
 - If a student is attempting to substitute a non-WCHS course for a prerequisite, the student must earn a C or higher in the course and score a 70% or greater on the midterm and final exam for the corresponding WCHS course.
 - Students with an A in Chicago Algebra who were Proficient or Advanced on the Keystone Algebra exam may enroll in Chicago Geometry and Chicago Advanced Algebra concurrently with the understanding that they are committing to at least one hour of math homework each evening.

MATH OFFERINGS

ALGEBRA (requirement may be replaced by Chicago Algebra or higher)

R

Prerequisites: signature of previous teacher

Open to Grade: 9

Students will represent and use numbers in equivalent forms; apply number theory concepts to show relationships between real-numbers in problem-solving settings; use exponents, roots and absolute values to solve problems; use estimation strategies in problem-solving situations; simplify expressions involving polynomials; write, solve and graph linear equations; write solve and graph systems of linear equations; write, solve and graph linear inequalities; write solve and graph systems of linear inequalities.

Students will take the Keystone Algebra Exam in May.

GEOMETRY (requirement may be replaced by Chicago Geometry or higher)

R

Prerequisites: General Algebra, signature of previous teacher

Open to Grade: 10

Some topics include segment measure, coordinate graphing, triangles and congruence, polygons, areas, surface area and volume, as well as reasoning in geometry.

ALGEBRA II (requirement may be replaced by Advanced Algebra or higher)

R

Prerequisites: General Algebra, General Geometry, signature of previous teacher

Open to Grades: 11, 12

More extensive equation solving, graphing, and problem-solving strategies, as well as the concepts of slope, powers and polynomials will be discussed.

11th grade students who do not have a defined Act 158 Graduation Pathway will retake the Keystone Exam in December and May.

CHICAGO ALGEBRA

E

Prerequisites: a grade of A or B in previous math course, signature of previous teacher

Open to Grade: 9

Work with linear expressions and sentences in an applied context including probability and geometry.

Students will take the Keystone Algebra Exam in May.

<p>CHICAGO GEOMETRY E</p> <p><i>Prerequisites:</i> Chicago Algebra, a grade of C or better in previous math course, signature of previous teacher <i>Open to Grades:</i> 9, 10</p> <p>Presents coordinates, transformations, measurement formulas, and three-dimensional figures followed by concentrated work with proof writing and a carefully sequenced development of the logical and conceptual precursors to proof.</p>
<p>ADVANCED ALGEBRA E</p> <p><i>Prerequisites:</i> Chicago Geometry, a grade of C or better in previous math course, signature of previous teacher <i>Open to Grades:</i> 9, 10, 11, 12</p> <p>Variations and graphs, linear relations, parabolas and quadratic equations, functions, powers and roots, exponents and logarithms, trigonometric functions.</p> <p>Students who do not have a defined Act 158 Graduation Pathway will retake the Keystone Exam in December and May.</p>
<p>FUNCTIONS, STATISTICS, AND TRIGONOMETRY E</p> <p><i>Prerequisites:</i> Advanced Algebra, a grade of C or better in previous math course, signature of previous teacher <i>Open to Grades:</i> 10, 11, 12</p> <p>Functions and models, power, exponential and logarithmic functions, trigonometric functions, graphs of circular functions, probability and simulation, statistics, polynomial functions</p>
<p>AP STATISTICS E</p> <p><i>Prerequisites:</i> a grade of A or B in both semesters of FST, proficiency on Keystone Algebra Exam, signature of FST teacher <i>Open to Grades:</i> 11, 12</p> <p>Note: Students must take the AP exam. (see page 4)</p> <p>The AP Statistics course is equivalent to a one-semester introductory non-calculus based college course in statistics. The course introduces students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. There are four themes in the AP Statistics course: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students use technology, investigations, problem solving and writing as they build conceptual understanding.</p> <p><i>Note:</i> An AP class may require summer preparation before the course begins. No more than four AP courses may be taken without prior administrative approval. Requests for schedule changes will not occur after the handwritten Course Selection sheet with signatures is turned in.</p>
<p>PRECALCULUS AND DISCRETE MATH E</p> <p><i>Prerequisites:</i> FST, a grade of C or better in previous math course, signature of previous teacher <i>Open to Grades:</i> 11, 12</p> <p>Advanced work with functions and trigonometry, with an introduction to limits and other calculus ideas. Formal logic and proof as well as number systems, combinations, and recursion.</p>
<p>AP CALCULUS E</p> <p><i>Prerequisites:</i> Pre-Calculus, proficiency on Keystone Algebra exam, signature of previous teacher, a grade of A or B in previous math course <i>Open to Grade:</i> 12</p> <p>Note: Students must take the AP exam. (see page 4)</p> <p>Functions, graphs and limits; differentiation; application of the derivative; integration; exponential and log functions; techniques of integration; differential equations; and functions of several variables.</p> <p><i>Note:</i> An AP class may require summer preparation before the course begins. No more than four AP courses may be taken without prior administrative approval. Requests for schedule changes will not occur after the handwritten Course Selection sheet with signatures is turned in.</p>

COLLEGE AND CAREER PREPARATORY ALGEBRA**E**

Prerequisites: Algebra II or Advanced Algebra or higher, signature of previous teacher

Open to Grade: 12

Scheduling preference will be given to students from Algebra II.

This course will seek to ensure that students are fully prepared for mathematics placement exams at the college level, or to take the competency exams for industry, particularly energy-related industry. Upon successful completion of the course, students should be ready for an entry-level college algebra course and able to avoid remedial coursework in mathematics at the college level.

Topics will include arithmetic operations without the use of a calculator, algebraic properties, solving equations including quadratics, properties of exponents and interpreting graphs and tables.

SCIENCE COURSE OFFERINGS**INTEGRATED SCIENCE****R**

Prerequisite: none

Open to Grade: 9

This course is required as an introductory high school science course. We will address concepts in geology: rocks and minerals, landforms, natural resources, plate tectonics, earthquakes and volcanoes. Then we will move above the surface of Earth and discuss the atmosphere and weather changes. We will finish the year in outer space, and analyze planetary motion, the moon, planets, and stars. The Earth's water is explored, including oceans and fresh water systems.

ECOLOGY (one semester)**R**

Prerequisite: none

Open to Grade: 9

This course is designed for freshmen in order to meet the Pennsylvania Ecology standards. Topics will include environmental decision making, ecosystems, climate, land use, biodiversity, energy, population growth and dynamics, species interactions with ecosystem and biomes, matter recycled through the ecosystem and ecological organization.

BIOLOGY**R**

Prerequisite: Integrated Science

Open to Grade: 10

This course is designed for sophomores who do not intend to go on to a four-year college after graduation. Topics studied in this course include an introduction to biology, biochemistry, structure and function of cells, homeostasis and transport, photosynthesis, cellular respiration, cell reproduction, fundamentals of genetics, nucleic acid and protein synthesis, inheritance patterns, organic evolution, and human genetics.

Students will take the Keystone Biology Exam upon completion of this course.

ADVANCED BIOLOGY (may replace Biology requirement)**E**

Prerequisites: B or better in Integrated Science, signature of previous teacher

Open to Grade: 10

This course is designed for sophomores who intend to go on to a four-year college after graduation. Topics studied will include an introduction to biology, biochemistry, structure and function of cells, homeostasis and transport, photosynthesis, cellular respiration, cell reproduction, fundamentals of genetics, nucleic acid and protein synthesis, inheritance patterns, organic evolution, and human genetics.

Students will take the Keystone Biology Exam upon completion of this course.

<p>PHYSICAL SCIENCE R</p> <p><i>Prerequisite:</i> Biology or Advanced Biology <i>Open to Grade:</i> 11</p> <p>This course will provide a survey of chemistry and physics and is designed for juniors who do not intend to go on to a four-year college after graduation. Topics studied in the chemistry portion will include the study of matter, atoms, periodic table, bonding theory, chemical reactions, gases, and solutions. Physics topics to be studied include motion, forces, work/energy, density, levers, pulleys, speed, acceleration, and free fall. One semester is chemistry, one semester is physics.</p>
<p>PHYSICS (may replace Physical Science requirement) E</p> <p><i>Prerequisites:</i> C or better in Advanced Algebra, FST (may be taken simultaneously), signature of previous teacher <i>Open to Grades:</i> 10, 11, 12</p> <p>Do you realize that you use Physics daily? It is the basis of all engineering, pre medicine, technical education, and the foundation that the skilled craftsman must know. This course is designed to give students a solid background in the physical laws and concepts governing the world around us. The final lab exam will be a hands-on experience at Kennywood Park, where the students can experience fun and learning at the same time. For example, speed will be calculated on rides such as the Phantom's Revenge, Whip, and Jack Rabbit.</p>
<p>ADVANCED PLACEMENT BIOLOGY (may replace Physical Science requirement)</p> <p><i>Prerequisites :</i> "A or B" in Advanced Biology and Chemistry. <i>Open to Grades:</i> 11, 12</p> <p>The AP Biology course is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: Chemistry of Life, Cell Structure and Function, Cellular Energetics, Cell Communication and Cell Cycle, heredity, Gene Expression and Regulation, Natural Selection and Ecology. They will also develop science practices in concept explanation, visual representations, questions and methods (scientific method), representing and describing data, statistical tests and data analysis and argumentation. The course includes both lecture format and extensive laboratory work that will require you to work on biology outside of class.) <i>Note:</i> An AP class may require summer preparation before the course begins. No more than four AP courses may be taken without prior administrative approval. Requests for schedule changes will not occur after the handwritten Course Selection sheet with signatures is submitted.</p> <p>"Note: Students must take the AP exam. (see page 4)"</p>
<p>CHEMISTRY (may replace Physical Science requirement) E</p> <p><i>Prerequisites:</i> signature of Biology teacher or Physics teacher <i>Open to Grades:</i> 10, 11, 12</p> <p>10th: Concurrently with Adv Bio and FST 11th and 12th: C or better in Adv. Bio and B or better in Chi Geo or Gen Alg II</p> <p>This course is designed for college-bound students that need a lab experience. Students will be expected to learn and complete quantitative and qualitative measurements and calculations. Topics covered: sub-atomics, nuclear, nomenclature, stoichiometry, solutions, gases, acid/base.</p>
<p>ANATOMY (may replace Physical Science requirement) E</p> <p><i>Prerequisites:</i> C or better in Advanced Biology, signature of previous teacher <i>Open to Grades:</i> 11, 12</p> <p>This course provides an in depth investigation of the human body. The structures, function, and interdependency of systems will be studied with emphasis placed on cells, tissues, and organs. Extensive microscope use and dissection during labs.</p>
<p>INTRODUCTION TO FORENSIC SCIENCE E</p> <p><i>Prerequisites:</i> a grade of C or better in Advanced Biology or A in Biology, signature of teacher <i>Open to Grades:</i> 11, 12</p> <p>If you like CSI, this is the class for you! Intro to forensic science combines the concepts learned in biology, chemistry, physics, and math and uses them in conjunction with the principals of criminal justice in order for you to learn what the real work of forensic science is all about. During this course, you will learn how to use the scientific method and apply it to real life situations through hands on lab work, lectures, discussions, and seminars. Topics will include: fingerprints, DNA, blood splatter and more.</p>

HONORS CHEMISTRY**E**

Prerequisite: 12th: A in chemistry and signature of teacher, 11th: A in FST and signature of teacher

Open to Grade: 11, 12

This course provides an in depth study of chemistry for those students who plan to major in the sciences, engineering, or health related fields in college. Emphasis will be placed on stoichiometry, equilibrium, kinetics, gases, quantum theory, kinetic theory, electrochem, thermochem, and acid/base chemistry. Extensive lab work in both quantitative and qualitative analysis. (This course is two periods long to accommodate a lab)

ADVANCED PLACEMENT PHYSICS**E**

Prerequisites: Physics or Chem I, Advanced Algebra, B or better in FST, signature of previous science teacher, must be concurrently enrolled in PDM or Calculus

Open to Grade: 12

Note: Students must take the AP exam. (see page 4)

This physics course will be taught on the college level. It will cover a broad range of topics in physics. This course normally satisfies college physical science requirements, and is often used by colleges as a physics course for pre-medical students and those in other technical areas. Although all emphasis is placed on a single comprehensive examination, a hands-on laboratory experience will take place at Kennywood Park. (This course is two periods long to accommodate a lab) *Note:* An AP class may require summer preparation before the course begins. No more than four AP courses may be taken without prior administrative approval. Requests for schedule changes will not occur after the handwritten Course Selection sheet with signatures is turned in.

ZOOLOGY**E**

Prerequisites: "C or better" in Advanced Biology or "B or better" in Biology with teacher signature

Open to Grades: 11, 12

The objective of this Zoology course is to provide students with a comprehensive understanding of animal biology, including the study of animal classification, physiology, behavior, ecology, and evolution. This course will introduce students to the diverse animal kingdom. Through lecture, laboratory investigation, projects, and an end of the year field trip to the Pittsburgh Zoo, students will make a detailed examination of the branch of biology that deals with animals and animal life, including the study of the structure, physiology, development, and classification of animals. Some of the topics discussed include the classification of animals, invertebrates, including sponges, flatworms, mollusks, insects, arthropods, and echinoderms, and vertebrates, including fishes, amphibians, reptiles, birds, and mammals.

MODERN LANGUAGE OFFERINGS**SPANISH I****E**

Prerequisites: grade average of C or better in English/Language Arts, signature of previous teacher

Open to Grades: 9, 10, 11, 12

Introduction to Spanish language and Hispanic cultures. This course will lay the foundations of grammar and sentence structure, build the student's vocabulary, develop listening comprehension, and provide opportunities for speaking Spanish in contextualized situations. While the primary goal of the course is communication, the course will also broadly explore various cultural and historical aspects of Spain and Latin America.

SPANISH II**E**

Prerequisites: grade average of C or better in Spanish I, signature of previous teacher

Open to Grades: 10, 11, 12

Continued development of the four communicative skills: reading, writing, listening and speaking. The course will also continue to lay the foundations of grammar and sentence structure, increase the student's vocabulary, and further build the student's knowledge of the history, geography, and cultures of the Spanish-speaking world at an intermediate level.

SPANISH III		E
<i>Prerequisites:</i> grade average of C or better in Spanish II, signature of previous teacher		
<i>Open to Grades:</i> 11, 12		
Reinforcement of skills and concepts presented in Spanish II and introduction of further grammatical structures and vocabulary necessary for oral and written communication. The course will also serve to develop the four communicative skills while providing a more comprehensive look at the history and cultures of Spanish-speaking countries at an intermediate/advanced level.		
SPANISH IV		E
<i>Prerequisites:</i> grade average of C or better in Spanish III, signature of previous teacher		
<i>Open to Grade:</i> 12		
Enhanced development of the four communicative skills. The course will introduce advanced grammatical structures for describing and talking about events in the past, present and future, as well as talk about hypothetical and unreal situations in those three time aspects. Students will engage in more specific and in-depth study of selected people and events in the history of Spain and Latin America. Likewise, students will read, analyze, and discuss selections from great works of Spanish and Latin American literature.		
FRENCH I (ONLINE ONLY)		E
<i>Prerequisite:</i> signature of English/Language Arts teacher		
<i>Open to Grades:</i> 9, 10, 11, 12		
Introduction to French language, culture, geography and history. This course will lay the foundations for grammar and sentence structure, build the student’s vocabulary, develop listening comprehension, and provide opportunities to enhance basic conversation and writing skills. There will be an emphasis on the importance of understanding other cultures in an increasingly international world.		
FRENCH II (ONLINE ONLY)		E
<i>Prerequisites:</i> grade average of C or better in French I,		
<i>Open to Grades:</i> 10, 11, 12		
Continued development of four communicative skills: reading, writing, listening and speaking. The course will also continue to lay the foundations of grammar and sentence structure, increase the student’s vocabulary, and introduce past and future tenses. The student’s knowledge of Francophone culture, history and geography are presented at an intermediate level.		
PROJECT LEAD THE WAY (P.L.T.W.)		
INTRODUCTION TO ENGINEERING DESIGN (1 st semester or year)		E
<i>Prerequisites:</i> signature of science, tech ed or drafting teacher		
<i>Open to Grades:</i> 9, 10, 11, 12		
Students are introduced to the engineering design process, applying Math, Science and Engineering standards to identify and design solutions to a variety of real problems. Students will understand and practice visual representations within engineering in the form of technical sketching. Computer Modeling will also be utilized greatly, students use modeling software to create CAD models to represent objects in a virtual 3D environment. Students will work independently and in small collaborative teams to solve various design challenges. Students entering into post-secondary engineering fields are strongly encouraged to take this course.		
BUSINESS & COMPUTER OFFERINGS		
COMPUTER EDUCATION (one semester)		R
<i>All 9th graders must take Computer Education</i>		
<i>Open to Grade:</i> 9		
Students will be introduced to essential skills in the following Microsoft Office programs: Word, Excel, PowerPoint, Access and Publisher. Students will have the opportunity to program: design, write, test, debug and maintain code for computer programs.		

<p>PERSONAL FINANCE (one semester) R</p> <p><i>All 11th graders must take Personal Finance</i> <i>Open to Grades: 11</i></p> <p>This course provides student with the basic principles of economics and best practices for managing their own finances. Students learn core skills in creating budgets, developing long-term financial plans, and making responsible choices about income and expenses. They gain a deeper understanding of capitalism and other systems so they can better understand their role in the economy of society. Students are inspired by experiences of finance professionals and stories of everyday people and the choices that they make to manage their money.</p>
<p>INTRODUCTION TO PROGRAMING AND COMPUTER SCIENCE (CS1) E</p> <p><i>Prerequisite: NA</i> <i>Open to Grades: 9-12</i></p> <p>Computer Science and computational problem solving are fundamental skills for engaging the 21st-century marketplace of ideas and economies. We believe that all students should have the opportunity to learn these skills as they will use them in whatever career they are likely to enter.</p> <p>Waynesburg Central High School has partnered with Carnegie Mellon University to provide students with an opportunity to be introduced to computer science and coding. Students will complete a CMU designed curriculum that will enable them to gain experience with technology while honing their problem solving skills.</p>
<p>PROGRAMMING AND COMPUTER SCIENCE II (CS2) E</p> <p><i>Prerequisite: Introduction to Computer Programming and Computer Science</i> <i>Open to grades: 10-12</i> <i>(Successfully completed all 12 units)</i></p> <p>This CS2 curriculum is designed for students who have completed CS1. This course builds on the CS1 foundation, covering some additional programming and CS topics (such as sets and maps), and then applying and extending computational problem-solving skills in a variety of application areas. Units will apply computation to such areas as art, science, music, math, data analysis and visualization, simulations, game design, web applications, security, machine learning and artificial intelligence, and more.</p> <p>Waynesburg Central High School has partnered with Carnegie Mellon University to provide students with an opportunity to continue learning computer science and coding. Students will complete a CMU designed curriculum that will enable them to gain experience with technology while honing their problem solving skills.</p>
<p>INTRODUCTION TO BUSINESS (one semester) E</p> <p><i>Prerequisite: signature of teacher</i> <i>Open to Grades: 9, 10, 11, 12</i></p> <p>The Introduction to Business class introduces career and business opportunities, resource management, and problem solving strategies.</p>
<p>INVESTMENT TECHNOLOGY (one semester) E</p> <p><i>Prerequisite: signature of teacher</i> <i>Open to Grades: 9, 10, 11, 12</i></p> <p>Students will study investments and utilize Microsoft Office software to create an investment portfolio. There will be a strong emphasis on using Microsoft Excel as a tool to analyze data.</p>
<p>ACCOUNTING I E</p> <p><i>Prerequisite: signature of teacher, 9th graders must have completed Geometry</i> <i>Open to Grades: 9,10, 11, 12</i></p> <p>This course provides students with the basic accounting principles and concepts practiced in sole proprietorships, partnerships, and corporations in the business world. The emphasis is on manual accounting methods using the General Journal Approach to prepare and interpret financial statements for an entire accounting cycle. Some topics include: the accounting equation, debits and credits, accounts payable/receivable, worksheets, income statements, balance sheets, net income/loss, and payroll.</p>

<p>ACCOUNTING II</p> <p><i>Prerequisites:</i> Accounting I, signature of teacher</p> <p><i>Open to Grades:</i> 11, 12</p> <p>This course expands on the concepts and principles learned during the Accounting I course. The emphasis will be on uncollectible accounts, plant assets and depreciation, inventory accounting, notes and interest, accrued revenue and expenses, distribution of dividends, financial statements, and end-of-fiscal period entries for a corporation.</p>	E
<p>SPORTS & ENTERTAINMENT MARKETING (one semester or year)</p> <p><i>Prerequisite:</i> signature of teacher</p> <p><i>Open to Grades:</i> 9, 10, 11, 12</p> <p>This course will help students develop a thorough understanding of the marketing concepts and theories that apply to the areas of sports and entertainment. This course will cover sports and entertainment marketing, marketing-information management, the economics of supply and demand, legal issues and entrepreneurship. During this course, students will participate in activities that will give them realistic hands-on experiences.</p>	E
INDUSTRIAL TECHNOLOGY OFFERINGS	
<p>COMPUTER-AIDED DRAFTING AND DESIGN (one semester or year)</p> <p><i>Prerequisite:</i> none</p> <p><i>Open to Grades:</i> 9, 10, 11, 12</p> <p>Computer-aided drafting and design plays an integral role in manufacturing. It will allow students to develop new products, enhance creativity, and can speed up productivity. This course involves mechanical drawing, drafting and taking ideas from concept to creation using the engineering design process. Students will learn basic part creation while learning the computer software, intermediate level 2D and 3D part modeling and drawing annotation, assembly modeling methods, and reverse engineering. The Elements and Principles of Design will be introduced as well as layout design and generating computer graphics.</p>	E
<p>COMPUTER-AIDED DRAFTING II (one year)</p> <p><i>Pre-requisite:</i> CAD or Intro to Engineering Design</p> <p><i>Open to Grades:</i> 10, 11, 12</p> <p>Students will use an industry standard CAD software to further develop their modeling skills. This course is designed to give students an in-depth experience when navigating the user interface and managing files, creating, modifying, formatting, and sharing 2D sketches, creating 3D parts, viewing and animating assemblies, creating presentations and drawings, and creating and modifying sheet metal parts. Students will be putting their design skills to the test with a few engineering design challenges throughout the course.</p>	
<p>ADVANCED CAD (one semester or year)</p> <p><i>Prerequisites:</i> Completion of CAD II and signature of teacher</p> <p><i>Open to Grades:</i> 11, 12</p> <p>Students will fine tune their drafting skills as they work through various parts creations and assemblies of real industrial and mechanical parts and machinery. Students will have some flexibility in deciding what they want to design and model; certain criteria must be met and have teacher approval. Students must be highly motivated to complete independent projects. This course is designed to increase students' breadth and depth of knowledge and increase their efficiency when designing to pass an industry standard CAD certification exam. Gaining this certification can benefit a student pursuing a career in construction, manufacturing, mechanical drafting and design, or looking to study engineering, digital art, or architecture in a post-secondary environment.</p>	
<p>TECHNICAL DRAFTING (one semester or year)</p> <p><i>Prerequisite:</i> signature of Intro to Engineering Design or CAD Teacher</p> <p><i>Open to Grades:</i> 10, 11, 12</p> <p>This course will include advanced drafting techniques, including Pictorial and Orthographic drawings. Students will be using CAD software to model and create 3D inventions and innovations to solve a variety of engineering design challenges. Some of the challenges include; tool and machinery design, architectural design and modeling, and civil and construction engineering related projects.</p>	E

<p>GRAPHIC ARTS DESIGN TECHNOLOGY (1st semester or year) E</p> <p><i>Prerequisites:</i> Intro to Engineering Design or CAD or signature of teacher <i>Open to Grades:</i> 10, 11, 12</p> <p>Students will explore the Elements and Principles of design, and will design and create multi-media Graphic Art projects. Students will learn about and use a variety of software and print methods. Students will explore the world of advertising and marketing through real design challenges and analysis. Graphic design projects include photo manipulation, vinyl decals, t-shirt designs, relief printing, and pixel art.</p>
<p style="text-align: center;">RECOMMENDED CONSTRUCTION COURSE SEQUENCING</p> <p>BIT (Gr. 9 or First Course) → Construction Tech or Manufacturing Systems I (Gr. 10-12)→ Manufacturing Systems II (Gr. 11-12)</p>
<p>BASIC INDUSTRIAL TECHNOLOGY (1st semester or year) E</p> <p><i>Prerequisite:</i> none <i>Open to Grade:</i> 9</p> <p>Students will experience industry through projects and exciting problem-solving activities. The students will solve various industrial/mechanical problems by using machines, problem-solving skills, and knowledge. This course is designed to give all students valuable lifelong skills through metal and woodworking projects. In addition, students will have the opportunity to use the district's portable sawmill.</p>
<p>CONSTRUCTION TECHNOLOGY (1st semester or year) E</p> <p><i>Prerequisite:</i> signature of construction teacher <i>Open to Grades:</i> 10, 11, 12</p> <p>History, terminology, processes, tools and skills used in the construction industry. Models will be used to give students hands-on experience in roof construction, foundations, and framing. In addition, students will have the opportunity to use the district's portable sawmill.</p>
<p>MANUFACTURING SYSTEMS I (1st semester or year) E</p> <p><i>Prerequisite:</i> signature of construction teacher <i>Open to Grades:</i> 10, 11, 12</p> <p>Processes used to establish and operate a manufacturing enterprise to include design, research and development, marketing, finances, and maintenance. Students will develop, engineer, produce, and market a product using a mass production format. In addition, students will have the opportunity to use the district's portable sawmill.</p>
<p>MANUFACTURING SYSTEMS II (1st semester or year) E</p> <p><i>Prerequisites:</i> Manufacturing Systems I, signature of construction teacher <i>Open to Grades:</i> 11, 12</p> <p>Students analyze the technical systems, historical evolution and various types of manufacturing. They will participate in various aspects of research, development and problem solving as they identify, design, and produce products in a manufacturing technology laboratory. In addition, students will have the opportunity to use the district's portable sawmill.</p>
<p>NATURAL RESOURCES E</p> <p><i>Prerequisite:</i> signature of this teacher <i>Open to Grades:</i> 11, 12</p> <p>The Marcellus Shale formation holds a great potential for a large scale natural gas development in our area. This course is designed as an introduction which will provide students with a foundation in the expanding field of the natural gas. Through partnerships, the student will receive classroom and field experience along with being exposed to both the geological aspects of the industry as well as the career related opportunities that includes the safety procedures and OSHA regulations. This course is designed as a full-year course. One semester will focus on the scientific end of the industry. This semester will show how subsurface data may be utilized not only in the search for petroleum, but also in the solution of environmental and other geological problems. Additional topics to be discussed include well-logging, classification of hydrocarbon traps, structural traps, origin of petroleum, thermal maturation, and migration, environmental regulations/issues, and oil/gas economics. During the other semester students will focus on topics that include safe-working habits, fire extinguisher processes, recognition of hazardous situations, excavation safety. Classroom training during this portion will include hands-on training involving welding, oxygen-acetylene torches, equipment safety, interview skills, and field visits to cooperating companies. Students will be PEC Safeland certified upon completion of the course. This course now offers Basic and Core PEC Compliance Trainings.</p> <p>Students who do not pass basic training during the first nine weeks will not be allowed to move on to other trainings. Testing will occur on a digital platform.</p>

AGRICULTURAL PRODUCTION OPERATIONS PROGRAM OFFERINGS

Recommended Course Sequence

Grade 9 – Introduction to Agriculture, Parli-Pro Level I with Ag Business/Agronomy

Grade 10 – Advanced Ag, Parli-Pro Level II with Ag Business/Agronomy, Floral Design

Grade 11 – Advanced Ag, ~~Food Science and Technology~~, Floral Business Management, Horticulture

Grade 12 – Advanced Ag, Forestry & Nat. Resources, Parli-Pro Level III with SAE or Greenhouse Mgr.

INTRODUCTION TO AGRICULTURE

E

Prerequisite: none

Open to Grades: 9, 10, 11, 12

Subjects taught include FFA basics and history, soil science, animal science, plant science, biotechnology, careers, food science, and agricultural mechanics. Students learn leadership skills and receive hands-on educational experience through field trips and related activities. Students receive practical business management experience through an individual career experience (SAE) program. All students enrolled in an agriculture class will be a member of the FFA organization, and participation in FFA activities will count as part of their grade.

ADVANCED AGRICULTURE I, II, III

E

Prerequisites: signature of agriculture teacher, B or better in previous Ag class

Open to Grades: 10, 11, 12

Includes advanced concepts in animal science, soil science, crop and livestock production, job skills, industry certification, and instruction and competition in CDEs and LDEs. A focus will be made on leadership in this class and students will plan yearly events such as Ag Olympics and Banquet. Students receive practical business management experience through an individualized career experience (SAE) program. All students enrolled in an agriculture class will be a member of the FFA organization, and participation in FFA activities will count as part of their grade. (May be repeated for additional elective credits.)

Courses are taught on a three-year rotation; level does not indicate difficulty, but which year is on rotation.

(2027-2028)

Genetics, Breeding, Reproduction, Large Animal Care & Management, Dairy & Livestock Management & Evaluation

(2025-2026)

OSHA 10 – Agricultural Certification, Animal Physiology, Nutrition & Digestion, Horse Management & Evaluation

(2026-2027)

Job Interview and Employability, Animal Anatomy, Animal Health, Small Animal Care & Management

PARLI-PRO AND PUBLIC SPEAKING I, II, III (first semester only)

E

Prerequisite: signature of agriculture teacher, C or better in English

Open to Grades: 9, 10, 11, 12

Students will develop and practice skills necessary for being an effective public speaker. Speech research, formulation, proofreading, and delivery will be emphasized. Verbal skills, body language, posture, and personal appearance will also be studied and practiced, along with speaking abilities, Parliamentary Procedure will be taught. All students enrolled in an agriculture class will be a member of the FFA organization, and participation in FFA activities will count as part of their grade.

Classes are taught at the same time, but differentiated at student levels.

Level I – Freshman student who will learn the Creed and participate on the Greenhand Parli-Pro LDE Team (if taken sophomore year, will write a 3-5 minute speech in lieu of Creed)

Level II – 2nd year student who will write a 3-5 minute speech for Junior Prepared Public Speaking CDE and participate on Parli-Pro Team – Greenhand or Senior to be determined by grade in class

Level III – 3rd year student who will write a 6-8 minute speech for Senior Prepared Public Speaking CDE and participate and/or chair on the Senior Parli-Pro LDE Team

FOOD SCIENCE AND TECHNOLOGY

Prerequisite: B or higher in previous agriculture course, signature of science teacher *Open to Grades:* 10, 11, 12

This course will focus on the importance of the food science industry, where your food comes from, preservation rates, food safety, meat science, cuts of meat, food processing, and nutrition. In addition, partnerships with local meat processing plants can lead to hands-on activities and work placement for students.

FLORAL DESIGN (one year)

Prerequisite: Elective teacher signature verifying ability to follow directions and handling tools safely

Open to Grades: 10, 11, 12

This course will cover principles of floral art with an emphasis on commercial design. Topics include basic design styles and color harmonies; identification, use, and care of processing of cut flowers and foliage; mechanical aids and containers; personal flowers; holiday designs; and plant identification and care. This course would be a full year course open to 9-12th grade students.

ADVANCED FLORAL DESIGN AND BUSINESS MANAGEMENT (one year)

Prerequisite: Completion of Floral Design I

Open to Grades: 11, 12

This advanced level course builds upon the foundational skills learned in Floral Design I and focuses on the management and business aspects of operating a floral shop. Students will take on managerial roles within the simulated floral business and be responsible for tasks such as budgeting, ordering supplies, tracking inventory and overseeing workflow. Through hands-on experiences, students will gain practical knowledge in business operations, financial planning and leadership skills.

FORESTRY AND NATURAL RESOURCES I, II, III (one semester or year)

E

Prerequisite: signature of agriculture teacher

Open to Grades: 9, 10, 11, 12

Forestry and Natural Resources instruction will involve many of the basic skills foresters or persons involved in forest industries or management need to know and understand. Tree identification, tree diseases and pests, tree growth habits, forest management practices, forest measurements, and forest products utilization will be included in this class. Students will also learn basic ecological concepts, renewable energy sources, conservation methods, and alternative fuels. In addition to forestry, contacts and activities will involve the Fish and Game Commission, Department of Forestry, Natural Resource Conservation Service, and other government agencies. Students receive hands on experience through an individualized career experience (SAE) program. All students enrolled in an agriculture class will be a member of the FFA organization, and participation in FFA activities will count as part of their grade.

Courses are taught on a three-year rotation; level does not indicate difficulty, but which year is on rotation.

(2027-2028)

Conservation, Natural Resources, Alternative Fuels

(2025-2026)

Tree Pests & Management, Wildlife Management, Forest Recreation & Safety

(2026-2027)

Tree & Leaf Identification, Tree Growth Diseases, Forest Management Practices, Forest Products

HORTICULTURE/GREENHOUSE (one semester or year)

E

Prerequisite: signature of agriculture teacher, completion of an agriculture course

Open to Grades: 10, 11, 12

Students who successfully complete this class and enroll in Delaware Valley University upon graduation will be eligible to receive college credit towards a Plant Science major.

This class will teach skills in producing and marketing horticultural crops. Greenhouse maintenance, crop planting, transplanting, growing, preparing for markets, marketing, and bookkeeping will be stressed. Students receive hands on experience through an individualized career experience (SAE) program. All students enrolled in an agriculture class will be a member of the FFA organization, and participation in FFA activities will count as part of their grade. (May be repeated for additional elective credits.)

HORTICULTURE-GREENHOUSE MANAGER (2nd semester only)		E
Prerequisite: completed one year of horticulture; enrolled in spring semester horticulture		Open to Grades: 11, 12
Students who are repeating Horticulture for additional elective credit will receive credit towards completion of the Ag Program by serving in the capacity of greenhouse manager. Student will be assigned a duty in the greenhouse above and beyond those students who are enrolled in Horticulture (for example Soil Preparation, Seeding, Transplanting, Watering, Pinching, Marketing, and Customer Service). Students will plan and assign duties to those working in their area and keep track of the work accomplished during their class period.		
SUPERVISED AGRICULTURAL EXPERIENCE (SAE) INDEPENDENT STUDY (one semester or year)		E
Prerequisite: signature of agriculture teacher		Open to Grades: 9, 10, 11, 12
This class will meet state standards established for agriculture students to be qualified for teacher supervision and assistance in maintaining and completing SAE record books as required for vocational regulations and to be eligible for FFA Degrees and Awards. All students will be required to complete applications for their State/American Degrees as part of this class. All students enrolled in an agriculture class will be a member of the FFA organization, and participation in FFA activities will count as part of their grade. (May be repeated for additional elective credits. To receive full credit, student must complete at least 120 hours with the project. To receive .5 credit, student must complete at least 60 hours.)		
AGRONOMY AND SOILS (second semester only) <i>alternates yearly with Agricultural and Business Management will be offered in 2026-2027</i>		E
Prerequisite: signature of agriculture teacher		Open to Grades: 9, 10, 11, 12
Students will learn how to prepare the land for efficient cropping, soil management, land judging, work and interpret soil tests and chemistry, harvesting, crop storage, and crop identification. All students enrolled in an agriculture class will be a member of the FFA organization, and participation in FFA activities will count as part of their grade.		
AGRICULTURAL BUSINESS MANAGEMENT (second semester only) <i>alternates yearly with Agronomy & Soils will be offered in 2025-2026</i>		E
Prerequisite: signature of agriculture teacher, C or better in math		Open to Grades: 9, 10, 11, 12
Students will learn how to identify sources of credit, appropriate tax management, how to differentiate among types of farm businesses and enterprises, how to identify assets, liabilities, and net worth, how to compute market values of livestock and cost of ownership, risk management, marketing and distribution networks and processes, supply and demand, and career opportunities. All students enrolled in an agriculture class will be a member of the FFA organization, and participation in FFA activities will count as part of their grade.		
MUSIC OFFERINGS		
MARCHING BAND (1 st semester only)		E
Prerequisites: own, rent, or have made prior arrangements for proper musical equipment, signature of band teacher		Open to Grades: 9, 10, 11, 12
All students wishing to participate in any instrumental music course must sign up for marching band class. Taking this class includes participating in the summer band program, band camp, football games, and parades. Participation in class as well as performances will count toward your grade. Student must play or be willing to play an instrument.		
This course may be repeated for additional elective credits.		
CONCERT BAND CLASS (2 nd semester only)		E
Prerequisites: own, rent, or have made prior arrangements for proper musical equipment, signature of band teacher, must enroll in marching band for first semester		Open to Grades: 9, 10, 11, 12
Students interested in this class will be expected to perform at a basic level on their instruments. This ensemble will perform literature from the intermediate concert band repertoire.		
This course may be repeated for additional elective credits.		

<p>CONCERT CHOIR (one semester or year) E</p> <p><i>Prerequisite:</i> signature of course instructor <i>Open to Grades:</i> 9, 10, 11, 12</p> <p>This course provides the student with the fundamental skills and concepts of choral music. In addition to learning to sing in four-part (SATB) harmony, the student will acquire and develop skills related to vocal production, sight-reading, audience and performance etiquette, listening, and basic musicianship. Students will also learn basic music history in relation to the repertoire studied. Members of this ensemble will perform in at least two public after-school concerts during the school year. This course may be repeated for additional elective credits.</p>
<p>MADRIGAL CHOIR E</p> <p><i>Prerequisite:</i> successful audition, signature of previous teacher <i>Open to Grades:</i> 10, 11, 12</p> <p>This choir will concentrate on music from the Renaissance style. This elite group will require each singer to have a strong degree of musicianship.</p>
<p>SHOW CHOIR E</p> <p><i>Prerequisite:</i> successful audition, signature of previous teacher <i>Open to Grades:</i> 10, 11, 12</p> <p>Development of a high level of vocal proficiency through the performance of serious and show music with the inclusion of movement. Performance in at least two evening concerts. (May be repeated for additional elective credits)</p>
<p>PERCUSSION ENSEMBLE (one semester or year)</p> <p><i>Prerequisites:</i> must be in marching band, and signature of director <i>Open to Grades:</i> 9, 10, 11, 12</p> <p>All students wishing to participate in this class are expected to participate in marching band. This class will perform on various types of percussion instruments and will perform at concerts throughout the school year.</p> <p>This course may be repeated for additional elective credits.</p>
<p>TECHNICAL THEATER PRODUCTION (one semester or year) E</p> <p><i>Prerequisite:</i> signature of course instructor <i>Open to Grades:</i> 9, 10, 11, 12</p> <p>Students enrolled in this course will acquire skills related to theatrical production and will serve as technical crew for events held in the WCHS auditorium. Topics covered will include sound, lighting, sets, costumes and makeup, props, and stage management. . Students enrolled in this course must be available to participate in after-school productions and activities. Students may enroll in this course multiple years and receive additional elective credit.</p>
<p style="text-align: center;">ART OFFERINGS</p>
<p>ART I (one semester or year) E</p> <p><i>Prerequisite:</i> none <i>Open to Grade:</i> 9</p> <p>In this course, students will learn the basics of design, drawing, painting, sculpture and digital editing. This course is the first course in the art elective sequence and is a prerequisite for all other art courses. Students will be introduced to color, color theory, the elements of art, and principles of design. Students will produce projects that will incorporate these criteria. Only students with a genuine interest, enthusiasm, and serious attitude to learn art techniques and art history should elect this course.</p>
<p>ART II (one semester or year) E</p> <p><i>Prerequisites:</i> successful completion of Art I, signature of teacher <i>Open to Grades:</i> 10, 11, 12</p> <p>Students will focus on further development of skills in drawing, painting, digital art, 3-D design, sculpture, and design concepts. Additionally, they are also introduced to art-related careers such as Advertising, Interior and Exterior Architectural design, and illustration with corresponding art projects for each design area. Students continue to study art history and the works of art masters. Only successful Art I students who are serious about art, design, and careers in art should elect this course.</p>

ADVANCED STUDIO (one semester or year)		E
<i>Prerequisites:</i> completion of Art II, signature of teacher		<i>Open to Grades:</i> 11, 12 (Repeatable)
Advanced studio allows students to explore individual media of their choosing. Drawing, painting, printmaking, sculpture, photography, air-brushing, digital imaging and more can be examined in depth. Highly motivated upper classmen will be asked to perform at the college level. This requires a yearlong commitment to complete a portfolio which consists of 16 pieces (4 per nine weeks), half demonstrating a breadth of experiences in media and techniques, and the other half that show a concentration on a theme or artistic concern. Students will be responsible for choosing their media, technique and theme for each nine week periods.		
PHYSICAL EDUCATION/HEALTH OFFERINGS		
HEALTH (one semester)		R
<i>Open to Grade:</i> 9		
All students in the 9 th grade will take one semester of Health Education. Topics will include emotional health, physical health, drug use and abuse, disease prevention, avoidance of risky behaviors, family health, HIV prevention, nutrition, hands on CPR, AED demonstrations, abstinence, refusal skills, life skills training, anger management, stress management, family communications, fitness, grieving and loss, maintaining healthy relationships, and media influence on health decisions.		
DRIVER'S ED (one semester)		R
<i>Open to Grade:</i> 10		
All students in 10 th grade will take one semester of Driver Education. Students will explore laws and regulations, vehicle operations, perceptual skills, reducing risk, driving conditions, and influences upon driver performance.		
PHYSICAL EDUCATION (one semester)		R
<i>Open to Grades:</i> 9, 10, 11, 12		
Physical Education at WCHS consists of fitness, team sports, and lifetime activities. Instruction focuses on fundamentals necessary to improve fitness/wellness of the individual, skill acquisition necessary to participate in team, individual lifetime sports, and multicultural games. The activities offered contribute to self-esteem, mental, and social well-being of the students in their adolescent years and beyond.		
FITNESS		E
<i>Prerequisites:</i> signature of PE teacher		<i>Open to Grades:</i> 10, 11, 12
This class will focus on concepts of health and fitness. The majority of time will concentrate on utilizing the fitness center to improve individual health and well-being. Classroom components will include basic fitness and nutritional concepts.		
JOB EXPERIENCE		
ELEMENTARY TUTORING (first semester or year)		E
<i>Open to Grades:</i> 10, 11, 12		
<i>Prerequisites:</i> grade of A or B in current English, signature of current English teacher. Acceptance will be based on prior academic performance, attendance, and disciplinary record.		
Elementary tutors will work at WCES assisting elementary teachers in working with their students. Tutors will be evaluated by their host teachers, present projects to students in their elementary classes, maintain daily journals of their activities at WCES, and maintain good school attendance.		
WORK RELEASE (one semester or year)		E
<i>Prerequisite:</i> signature of transition coordinator/assistant principal		<i>Open to Grades:</i> 12
Work Release is an option for those students who have successfully accumulated the required number of credits to graduate and are maintaining their academic standing. Students will be required to maintain employment and present pay stubs to the school on a bi-weekly basis.		

GREENE COUNTY CAREER AND TECHNOLOGY CENTER PROGRAMS AND DESCRIPTIONS

Upon completion of a career and technical education (CTE) Program of Study (POS), students are eligible for statewide articulation credits. The Students Occupationally and Academically Ready (SOAR) program allows CTE students to earn free college credits. Students can earn these free credits if you have scored well on your NOCTI and if your instructor can confirm that you have completed your entire CTE program. The GCCTC is available for all WCHS students in grades 10-12, if they have met WCHS's course requirements.

AUTO COLLISION & REPAIR TECHNOLOGY

Students are provided with the training necessary to repair damaged automotive vehicles. Students will learn MIG welding, brazing, and mild steel oxyacetylene welding. Students can work in garages, assembly plants, trucking and busing companies, or operate their own private repair shop. Jobs are also available in sheet metal work, insurance adjusting, estimating, and specialty painting. (Articulation Agreement w/Thaddeus Stevens College of Technology)

AUTOMOTIVE TECHNOLOGY

Students are provided with practical instruction in the diagnosis, repair and adjustment of all phases of automotive mechanics. Students who complete this program can find employment with automotive dealers and independent garages. (Articulation Agreement w/Community College of Allegheny County)

BUILDING CONSTRUCTION OCCUPATIONS

Students in this program receive lab experience relating to the problems and strategies used in the different crafts of the construction industry; and have an opportunity to master the carpentry, masonry, electrical, drywall, painting, and plumbing skills considered essential for entry level employment in the construction industry. (Articulation Agreement w/Community College of Allegheny County)

COMPUTER INFORMATION TECHNOLOGY

This program focuses on the design, implementation and management of linked systems of computers, peripherals and associated software and prepares individuals with the technical skills required to support networks and network users. This program includes instruction in network technologies and standards: system design, architecture, operating systems, security, communications protocols, client support, messaging services, network management, troubleshooting, and server optimization. Opportunities are available to obtain certification in A+ and Network+. (Articulation Agreement w/ Laurel Business Institute)

COSMETOLOGY

This program combines theory with hands-on training in the school salon and experience in sales and reception duties. The 1250 hour curriculum prepares students for the State Board of Cosmetology Exam and to work as licensed hairstylists. Additional programs include: Nail Technology - 315 hours and Esthetics (Skin Care) - 300 hours. Excellent communication skills, safety and sanitation practices, working at a fast pace and remaining on your feet are daily expectations for the students. Opportunities are available to obtain PA license. (Articulation Agreements w/ Douglas Education Center and Laurel Business Institute)

CULINARY ARTS

This program maintains a complete commercial kitchen facility and a restaurant to provide on-the-job experience for students. Students are trained in the preparation and serving of food and may obtain jobs as line cooks or servers. Additional training enables the students to work as chefs in hotels, restaurants and resorts. Opportunities are available to obtain certification in ServSafe. (Articulation Agreements w/Community College of Allegheny County and Westmoreland County Community College)

ELECTRICAL OCCUPATIONS

This program provides an understanding of basic electricity and the foundation of network cabling. Electrical students work with switches, conduit, circuit breakers, and receive on the job maintenance experience. Students work with fiber optic, category #5 cable, router, and cabling meters. Some related careers are electrician's helper, network technician, electrical maintenance & repair and internet cabling installer. (Articulation Agreement w/ Douglas Education Center)

EMERGENCY PROTECTIVE SERVICES

This course provides three years of classroom and practical experience for entrance into the field of public safety via in-depth training to perform duties as a police officer, fire fighter, emergency medical technician, and other public safety-related careers. The application of math, English, communications, science, and physics is demonstrated throughout the course. Students receive training in social and psychological skills, vehicle and equipment operations, the judicial system, pre-hospital emergency medical crew, fire prevention and control, hazardous materials, and emergency management.

The Emergency Services program provides an excellent foundation from which to pursue college and ultimately a career in public safety.

HEALTH ASSISTANT

Students enrolled in this program receive entry-level introduction to the following:

- Medical-office skills enabling them to work in a doctor's office/clinic.
- Basic Anatomy and Physiology and Medical Terminology.
- Introduction to Massage Therapy.
- CPR and First Aid certification.
- Nurse Aide Curriculum, preparing them to work as a nurse aide.
- Volunteer work at a local long-term nursing home, enabling them to develop interaction skills with the elderly population.

Students in this program may be prepared to enter the Licensed Practical Nursing Program, any junior college or business program with a medical field degree, phlebotomy program, or continue as a nurse aide in any number of medical facilities. Opportunities are available to obtain certification in Home Health Aide. (Articulation Agreements w/Community College of Allegheny County and Laurel Business Institute)

PRECISION MACHINING

Students are trained in the use of drawings, hand tools, precision measuring tools, drilling machines, grinders, lathes, milling machines, and other specialized machine tools to shape and finish metal and nonmetal parts. Graduates of the program have a sound understanding of basic and advanced machining practices, which include:

- Proficiency in safely operating machine tools of various types (manual, automatic, and computer controlled.)
- Knowledge of working properties of metal and nonmetals.
- Academic skills (math, science, English, blueprint reading, metallurgy, etc.) are needed to make precision layout and machine setup. Opportunities are available to obtain certification in NIMS (National Institute for Metalworking Skills). (Articulation Agreements w/California University of Pennsylvania and Westmoreland County Community College)

WELDING/FABRICATION

Students are provided instruction in the cutting, bending, and shaping of various metals by using a variety of welding processes such as oxyacetylene welding and cutting, shielded metal arc welding, tungsten inert gas welding (TIG) and metal inert gas welding (MIG). Graduates of the program may find jobs as apprentice welders in the following industries: ship building, tank and boiler fabrication, railroad, automotive, aircraft, building construction, pipeline construction, and mining. (Articulation w/Community College of Allegheny County and Westmoreland County Community College)

WCHS FOUR YEAR PLAN PRACTICE PAGE

(The official color-coded form should be turned into guidance with all appropriate signatures included)

9 th Grade			
Subject	Semester 1	Semester 2	Note
English	English 9 or Honors English 9		
Social Studies	Civics		
Math	Algebra OR Chicago Algebra OR Chicago Geometry OR Advanced Algebra		
Science	Integrated Science		
Phys Ed/Health	Health & Phys Ed		
Comp Ed/Elective	Computer and Financial Literacy & Ecology		
Elective			
Elective			
Alternative Elective			
Alternative Elective			

10 th Grade			
Subject	Semester 1	Semester 2	Note
English	English 10 OR Honors English 10		
Social Studies	World Cultures OR Honors World Cultures		
Math	Geometry OR Chicago Geometry OR Advanced Algebra OR FST		
Science	Biology OR Advanced Biology		
Phys Ed/ Driver's Ed	Drivers' Ed & Phys Ed		
Elective			
Elective			
Elective			
Alternative Elective			
Alternative Elective			
Vo Tech	(3 credits)		

11th Grade			
Subject	Semester 1	Semester 2	Note
English	English 11 OR AP Language or AP Literature		
Social Studies	American History OR AP US History		
Math	Algebra II OR Advanced Algebra OR FST OR PDM OR AP Stats		
Science	Physical Science OR Chemistry OR Physics OR Anatomy OR AP Biology		
Phys Ed/Personal Finance	Phys Ed & Personal Finance		
Elective			
Elective			
Elective			
Alternative Elective			
Alternative Elective			
Vo Tech	(3 credits)		

12th Grade			
Subject	Semester 1	Semester 2	Note
English	English 12 OR AP Literature OR AP Language		
Social Studies/ Phys Ed	Economics & Phys Ed		
Elective			
Elective			
Elective			
Elective			
Elective			
Elective			
Alternative Elective			
Alternative Elective			
Vo Tech	(3 credits)		
Grad Project			

Graduation Requirements

English	4	Science	3 ½	PE/Health/Dr Ed	3	Electives	10
Social Studies	3 ½	Math	3	Computer Ed./ Personal Finance	1	Grad Project	✓

ACT 158 GRADUATION REQUIREMENTS

AN OVERVIEW OF THE 5 PATHWAYS TO GRADUATION

Act 158 of 2018 provides an outline of five distinct pathways to meet graduation requirements starting with the graduating class of 2023.

Pathway 1 – Keystone Proficiency Pathway

- Student will earn proficient or advanced on all three keystone exams (Algebra I, Literature, and Biology)

Pathway 2 – Keystone Composite Pathway

- Student will earn proficient or advanced on at least one keystone exam, and score at least basic on the other two keystone exams, and have a composite score of at least 4452.

Pathway 3 – Career & Technical Education Pathway

- Student will meet local requirements for academic content covered by the keystone exams for all subjects where they did not earn proficiency on the keystone.

AND

- Either - Attain an industry-based competency certification related to the CTE Concentrator's program of study.

OR

- Demonstrate a high likelihood of success on an approved industry-based competency assessment or readiness for continued meaningful engagement in the CTE Concentrator's program of study.

Pathway 4 – Alternate Assessment Pathway

- Student will meet local requirements for academic content covered by the keystone exams for all subjects where they did not earn proficiency on the keystone.

AND - One of the Following

- Attain an established score on an approved alternate assessment for each subject where the student did not earn proficiency. Approved alternate assessments are:
- AP (3), IB (4), PSAT (970) , SAT (1010), ACT (21)
- ACT WorkKeys : Gold Level
- ASVAB – minimum score required to gain admittance to a branch of the armed services in the year the student graduates

OR

- Successfully complete a concurrent enrollment course in an academic content area associated with each Keystone Exam in which the student did not achieve at least proficiency
- Credit-bearing non-remedial approved concurrent course
- Aligned to the respective keystone exams
- Passing grade on the approved concurrent course
- High school or college transcript as evidence

OR

- Successfully complete a pre-apprenticeship program
- Specific career training designed to prepare a student for an occupation in an approved schedule of related instruction
- Program must be registered with the Director Apprenticeship and Training Office, PA Department of Labor and Industry
- Meets all pre-apprenticeship program requirements, per specific industry requirements

OR

- Be accepted in an accredited 4-year nonprofit institution of higher education and have evidence of the ability to enroll in college-level coursework
- Acceptance letter from an accredited 4-year nonprofit institution
- Placement test results indicating the student may enroll in college-level coursework
- College registration form confirming enrollment
- Local profile of an acceptable high school GPA, attendance record, and SAT/ACT score

Pathway 5 – Evidence Based Pathway

- Student will meet local requirements for academic content covered by the keystone exams for all subjects where they did not earn proficiency on the keystone.

AND THREE (3) PIECES OF EVIDENCE

At least one (1) of the following:

- Attainment of an established score on an alternate assessment
- SAT Subject Test - 630
- Act WorkKeys: Silver Level
- AP (3) or IB (3) related to student career choice
- Acceptance to an, other than 4-year accredited nonprofit institution of higher education
- Acceptance letter
- Placement test results
- College registration form
- Local profile of acceptable HS GPA, attendance record, CAT/ACT score
- Attainment of an industry recognized credential
- Documentation that verifies attainment as defined by the Office of Elementary and Secondary Education
- Successful completion of a concurrent enrollment or postsecondary course
- Credit bearing non-remedial course
- Approved concurrent course aligned to the respective Keystone exams
- Passing grade on an approved concurrent course
- High school or college transcript as evidence

Up to two (2) of the following:

- Service-Learning Project completion
- Must include project learning goal(s), project activities, and the project's contribution to the community
- Supervised and assessed by an adult; successful completion is verified in writing by the adult supervisor
- Sufficient duration and intensity to address identified community needs and meet specified project learning goal(s)
- Proficient or Advanced on a Keystone Exam
- Scaled score of 1500 or higher on one Keystone exam
- Letter guaranteeing full-time employment
- Internship or Cooperative Education Program
- Appendix A – Industry-based Learning Indicator Guidance: work-based learning experiences
- Compliance with NCAA's core courses for college-bound student athletes
- Minimum GPA requirements (2.0) in approved NCAA core courses

Other Than the Pathways

In addition to the 5 pathways described above there are two (2) other provisions available.

- Graduation based on IEP team decisions based upon academic goals
- Superintendent's waiver for students with extenuating circumstances (5%)