

WELLSTON HIGH SCHOOL



COURSE OF STUDY GUIDE 2021-2022

Dear Parents,

Inside this booklet you will find Wellston High School's course of study. It is a summary of each class that we offer in the academic areas that all students will encounter throughout their high school career. Today's education is much different than the past. There are more mandates, than ever before, on our public schools to ensure that our students are college and career ready. With that said, we encourage you to assist your child when selecting school courses, which will affect their future.

In order to do that, this document provides the following information:

- Wellston High School's grading scale and graduation requirements
- An outline of the Ohio Core Curriculum
- Buckeye Hills Career Center requirements
- An outline of how to obtain the Honors Diploma
- Wellston High School recommended course choices by grade level
- Course descriptions

Please note that we are obligated to provide a rigorous and comprehensive education for each student to help them prepare for their future. Please note that all courses offered at Wellston High School focus on preparation for college. We believe in all of our students, and only want the best for them. We ask that you look through this document with your child and help them make a plan for their future. Like most plans, it may change, but your child needs to have an idea as to where they are going in order for their education to make sense.

As always, feel free to contact us at the high school if you have any questions at all. We are happy to help in any way we can to assist in your child's future successes.

Sincerely,

Megan Sowers, WHS Principal

Shane Stevens, WHS Assistant Principal

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WELLSTON CITY SCHOOLS MISSION & PURPOSE

Wellston City Schools will achieve excellence in education for ALL learners.

The purpose of WCS is to...

- Educate ALL students using differentiated instruction
- Develop the whole child*
- Provide a caring, safe & respectful environment
- Develop successful members of society.

*To develop physical, emotional, social, cognitive and communication skills of the child/student.

RESPECT

Responsibility (Be on Time; Take Ownerships for your actions; Be Prepared)

Empathy (Compassion, Understanding)

Sincerity (Mean what you do & say; Be Genuine)

Politeness (Manners; Be Considerate)

Encouragement (Positive, Praise, Support, Helpful)

Cooperation (Teamwork, Helpful, Positive, Inclusive, Sharing)

Tolerance (Accepting, Understanding, Patient, Acknowledgement, Awareness)

SCHOOL COUNSELING SERVICES

Wellston High School is serviced by one licensed professional school counselor. The school counselor is employed to support the academic, personal/social and career needs of all students and to help ensure all students graduate from high school being college and career ready. The school counselor provides assistance to students and families through a variety of activities, which include:

- Individual Counseling
- Course selection and scheduling
- College and career planning services
- Testing and placement
- Coordination with community agencies and referrals
- Transcript and academic records
- Classroom guidance

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STUDENT RECOGNITION

Academic Letters:

All seniors who make the Superintendent's List (GPA of 3.80 or higher) for each of the first THREE quarters of the current academic year will receive an Academic Letter, to be awarded in May of the current academic year. All underclassmen who make the Superintendent's List all FOUR quarters of the current academic year will receive an Academic Letter, to be awarded in August or September of the following academic year.

Best of Class:

Students must meet the requirements to obtain an Honor's Diploma from the Ohio Department of Education, receive ALL A's during their high school career AND take all of the following courses (or College Credit Plus equivalent):

Class of 2022

- Advanced Math (Pre-Calculus)
- Calculus **or** Statistics
*Students MUST take a Math class every year of high school
- Chemistry
- Anatomy & Physiology, Physics, **or** Advanced Chemistry
- CCP Composition I
- CCP Composition II **or** AP English Literature
*Students MUST take an English class every year of high school
- AP Government

Class of 2023 and beyond

- All courses required for Class of 2022 **AND**
- AP American History
- CCP Principles of Biology **or** Honors Biology

In the event that no student receives ALL A's, a transcript analysis will be completed. As always, best of class will be finalized by the high school administration.

Honor Graduates:

Awarded to those students who obtain an Ohio Honors Diploma (page 9), or CCP equivalent courses and meet the GPA standards outlined below:

- | | |
|-------------------|--------------------|
| • Summa Cum Laude | GPA of 4.0 |
| • Magna Cum Laude | GPA of 3.75 - 3.99 |
| • Cum Laude | GPA of 3.74 - 3.50 |

In addition, Wellston City Schools will honor the Top Vocational Student each year at both the Academic Banquet and at Graduation. The determination of the Top Vocational Student will be determined by the administration at Buckeye Hills Career Center.

National Honor Society:

Membership is an honor bestowed upon a select group of juniors and seniors based upon excellence in four areas: Character, Leadership, Scholarship and Service. Each category is judged independently and equally. The NHS Advisor will check all junior and senior students' GPAs to determine who meets the scholarship portion requirement. A student must earn a minimum of a 3.5 GPA to be eligible for NHS. The NHS Advisor will contact the eligible juniors and seniors and give them an information packet to complete. Students must demonstrate they have completed service projects and activities, and have participated in extracurricular activities to show leadership. All teacher of WHS may be asked to provide information regarding the four areas of scholarship, service, leadership and character. A faculty committee of five is appointed by the principal and advisor to review the students' applications. The committee must consider all four categories and then vote on selection or non-selection. All candidates will receive a letter from the NHS Advisor informing them of their status.

Service Learning:

Wellston High School students are encouraged to participate in service learning opportunities. Students meeting or exceeding the service learning hours will be awarded a ribbon/cord as recognition of this accomplishment at graduation. Service learning hours required to earn this recognition are 60 hours. Service learning logs are found in the office and all noted hours are to be cleared through the office. Hours will be collected at each nine week period check point. Senior hours must be submitted by May 1st.

SCHEDULING POLICIES AND PROCEDURES

All students must enroll in 7 classes for a 7 period day.

Students enrolled in Honors and/or Advanced Placement Courses will not be permitted to drop the course after June 1st without a parent-teacher-counselor-administrator meeting.

All other courses may be dropped during the first 5 days of the semester. Students must obtain a schedule change request form and meet with the guidance counselor in order to make a change.

Acceptable reasons for making a change:

- Already have taken the class
- Missing a class to graduate or meet Honor's Diploma/Best of Class requirements
- Failure to meet prerequisites required for given course
- Member of band/choir and not on schedule.

Except as defined above, any drop after the first 5 days of a semester will result in a Withdrawal Fail (WF). The grade will be reported on the student's transcript and factor into student's cumulative GPA and class rank. Only administration may grant exception to this rule.

Students are not permitted to drop yearlong courses at the beginning of the second semester.

Students and parents/guardians may not request placement with a specific teacher.

All freshmen and sophomores are required to attend academic coaching from 7:55am – 8:35am every day.

Any junior or senior with a C average or below are required to attend academic coaching from 7:55am – 8:35am every day.

CURRICULUM REQUIREMENTS

Grade 9	Credit
English Language Arts (English 9 or Honors English 9)	1.0
Math (Algebra I or Honors Geometry)	1.0
Biology	1.0
World History and Civilizations (College Prep or Honors)	1.0
Freshman Academy	1.0
Physical Education (Semester)	0.25
Health (Semester)	0.5
Electives (student's choice)	2.0

Grade 10	Credit
English Language Arts (English 10 or Honors English 10)	1.0
Math (Geometry or Algebra II)	1.0
Physical Science	1.0
American History (College Prep or AP)	1.0
Sophomore Academy	1.0
Physical Education (Semester)	0.25
Electives (student's choice)	2.5

Grade 11	Credit
English Language Arts (English 11 or AP English)	1.0
Math (Algebra II or higher math)	1.0
Advanced Science	1.0
Government and Economics (College Prep or AP)	1.0
Journeys	0.5
Electives (student's choice)	3.5

Grade 12	Credit
English Language Arts (Career, College Prep, or AP English)	1.0

Math (higher level)	1.0
Senior Success/Transitions and Careers	1.0
Electives (student's choice)	5.0

WHS GRADUATION REQUIREMENTS

Curriculum Requirements:

Class of 2022 and beyond:	
English	4 credits
Math	4 credits (must include Algebra 2 unless in career technical program)
Science	3 credits (Biology, Physical Science, Advanced Science)
Social Studies	3 credits (World History, American History, Government)
Health	.5 credit
Physical Education	.5 credit (2 semesters)
Fine Art	1 credit
Electives	6 credits
Total	22 credits

Testing Requirements:

Class of 2022: (may also use new requirements for Class of 2023 and beyond)
END OF COURSE EXAMS:
9 th Grade – English I, Math*, Biology 10 th Grade – English II, Math*, American History 11 th Grade – American Government *Students must take Algebra I and Geometry for graduation points
Students must earn a minimum of 4 points on English, 4 points on Math and 6 points on Science and Social Studies tests combined.
Students must accumulate a total of 18 points or meet one of the other requirements listed below.
MINIMUM SCORE ON COLLEGE READINESS ASSESSMENT:
11 th Grade will take the ACT without writing in March during the school day Minimum scores: English = 18, Reading = 22, Math = 22
WORKFORCE READINESS SCORE:

The WorkKeys assessment has three sections: reading, applied mathematics, and locating information. Students must earn a total of 14 points across the three WorkKeys sections. Students must also earn a minimum of 3 points on each section of the test.

-AND-

Earn a minimum of 12 points by receiving a State Board of Education-approved, industry-recognized credential or group of credentials in a single career field

Class of 2023 and beyond:

DEMONSTRATING COMPETENCY

End-of-Course Exams

9th Grade – Math*, Biology

10th Grade – English II, Math*, American History

11th Grade – American Government

*Students must take Algebra I and Geometry for graduation points

Students must earn a “competency” score (684 or above) on the English II and Algebra I end-of-course exams. Students not earning passing scores on the first attempt will be offered remediation and support in order to retake the test at least once. If a student does not attain a passing score, they may use an alternate way to show competency:

1. College Credit Plus – Earn college credit in a non-remedial math or English course (for the subject not passed)
2. Career Experience and Technical Skill – Complete two demonstrations to show competency (one must be foundational)

Foundational:

- a. Earn a score of proficient or higher on 3 or more WebXams in a single career pathway
- b. Earn an approved industry-recognized credential
- c. Complete a pre-apprenticeship in the student’s chosen career field or show evidence of acceptance into an apprenticeship program

Supporting:

- a. Complete a 250-hour work-based learning experience with evidence of positive evaluations
 - b. Earn the workforce readiness score on WorkKeys
 - c. Earn the OhioMeansJobs Readiness Seal
3. Military Readiness – A contract to enlist in the military upon graduation

DEMONSTRATING READINESS:

Students must demonstrate readiness by earning at least 2 diploma seals (one of which must be state defined).

State-Defined Diploma Seals

Ohio Means Jobs Readiness Seal

State Seal of Biliteracy

Industry-Recognized Credential Seal

College-Ready Seal

Military Enlistment Seal

Citizenship Seal

Science Seal

Honors Diploma Seal

Technology Seal

Locally-Defined Diploma Seals

Community Service Seal

Fine and Performing Arts Seal

Student Engagement Seal

Honors Diploma Requirements:

Academic Honors Diploma:	*Must meet 7 of 8 criteria
English	4 credits
Math	4 credits (Algebra I, Geometry, Algebra II, and one higher math)
Science	4 credits (must include 2 credits of advanced science)
Social Studies	4 credits
World Language	3 credits of one world language or two credits of two world languages
Fine Arts	1 credit
GPA	3.5 or higher on 4.0 scale
ACT/SAT	ACT: 27 or higher/SAT: 1280 or higher

Career Tech Honors Diploma:	*Must meet all but one of the below criteria
Math	4 credits (Algebra I, Geometry, Algebra II, and one higher math)
Science	4 credits (must include 2 credits of advanced science)
Social Studies	4 credits
World Languages	2 credits of one World Language
Electives	4 credits of career-technical courses
GPA	3.5 or higher on 4.0 scale
ACT/SAT/WorkKeys	ACT: 27 or higher/SAT: 1280 or higher/WorkKeys: 6 or higher on Reading for Information and a 6 or higher on Applied Mathematics
Field Experience	Complete a field experience and document the experience in a portfolio specific to the student's area of focus.
Portfolio	Develop a comprehensive portfolio of work based on the student's field experience or a topic that is related to the student's area of focus.

Additional Assessments	Earn an industry-recognized credential or achieve proficiency benchmark for appropriate Ohio Career-Technical Competency Assessment or equivalent.
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CLASS RANK - 4.0 GRADING SCALE

93 – 100	A	4.00
90 - 92	A-	3.67
88 - 89	B+	3.33
83 - 87	B	3.00
80 - 82	B-	2.67
78 - 79	C+	2.33
73 - 77	C	2.00
70 - 72	C-	1.67
68 - 69	D+	1.33
63 - 67	D	1.00
60 - 62	D-	0.67
59 - 0	F	0.00

NCAA REQUIREMENTS

Division I and II Requirements:
16 CORE Courses
Division I – 2.3 Cumulative GPA, Sliding Scaled Score for ACT or SAT
Division II – 2.2 Cumulative GPA, Sliding Scaled Score for ACT or SAT

COLLEGE CREDIT PLUS

The College Credit Plus (CCP) Program allows students in grades 7-12 to earn college and high school credit through successful completion of college courses.
Students must apply to the college and adhere to the college's admission guidelines Must take ACCUPLACER test or ACT Must meet the minimum requirements for selected test
Students and parents interested in this program must fill out Intent to Participate Form and attend a meeting on the program prior to March 30.

College Credit Plus courses can be delivered in any of the following ways:

Taken on the college campus taught by a college instructor

Taken in the high school taught by a qualified adjunct high school teacher

Taken online taught by a college instructor

College Credit Plus Sample Pathways:

15 Credit Hour Pathway:	30 Credit Hour Pathway:
Composition I (3 hours)	Composition I (3 hours)
Composition II (3 hours)	Composition II (3 hours)
College Algebra (3 hours)	College Algebra (3 hours)
Trigonometry (3 hours)	Trigonometry (3 hours)
American Government (3 hours)	American Government (3 hours)
	Fine Arts (3 hours)
	Principles of Chemistry (4 hours)
	Anatomy & Physiology (4 hours)
	General Psychology (3 hours)

BUCKEYE HILLS CAREER CENTER

The Buckeye Hills Career Center offers many career-technical education programs. Upon the successful completion of the high school credit requirements, students will receive a high school diploma from Wellston High School. Students that also successfully complete the Career Technical requirements for their program will receive a Career Technical Certificate from Buckeye Hills Career Center. Students also have the opportunity to earn additional program specific credentials recognized by business and industry and colleges and universities. Students that earn a Career Technical Certificate will receive a Career Passport. A Career Passport is a portfolio that documents the student's achievements while attending the Buckeye Hills Career Center.

Juniors have the first 10 days of the school year to return to Wellston, after those 10 days, students are required to remain at Buckeye Hills for the remainder of the 1st semester. Students may return to WHS at the end of the 1st semester or prior to the start of senior year.

In order to enter Buckeye Hills, students must apply and be accepted according their tier system of program placement. Students must have a minimum of 6 credits entering their junior year – 4 of those credits must be CORE credits. Tier I students will have the highest priority of placement, followed by Tier II. Tier III students are not guaranteed placement. See requirements below:

11th grade/Junior students:

Tier I	8 Core Credits, 2 electives, Health/PE 92% Attendance Meet behavior/discipline criteria
Tier II	6 Core Credits, 88% Attendance Meet behavior/discipline criteria
Tier III	5 Core Credits Below 87% Attendance Evaluation of behavior/discipline criteria Development of Success Plan if admitted

12th grade/Senior students:

10 Core Credits, 4 electives, Health/PE
88% attendance
Meet behavior/discipline criteria
Availability of senior program openings

CURRICULUM OFFERINGS

ENGLISH LANGUAGE ARTS

English 9	Full year	1.0 credit
We discuss and analyze different types of literature including, nonfiction, poetry, short stories and novels, the class achieves this through group work, discussion, lecture, projects and formative/summative assessment. We also write essays focusing on content, analysis and grammar. (050160)		
Honors English 9	Full year	1.0 credit
Prerequisite: Recommendation from 8th grade English teacher. SRI reading levels match grade level or above and they have at least an 80% on writing assessments.		

Similar to English 9 we discuss and analyze different types of literature including, nonfiction, poetry, short stories and novels, the class achieves this through group work, discussion, lecture, projects and formative/summative assessment. We also write essays focusing on content, analysis and grammar. We go more in depth with these ideas to prepare students for post-secondary and AP courses. (050160)

English 10	Full year	1.0 credit
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In this course students continue to develop their reading, writing, speaking and listening skills through a variety of poetry, novels, short stories, plays and nonfiction writings developed around universal themes that connect students to the world. This will include writing persuasive, expository and narrative essays, public speaking, the study of grammatical conventions, and vocabulary development. (050170)

Honors English 10	Full year	1.0 credit
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Prerequisite: Recommendation from 9th grade English teacher; SRI reading level is at grade level or above; at least 80% final grade in 9th grade English.

This course examines universal themes among many types of reading and writing. More rigorous texts will be featured and students are required to complete work outside the classroom. Students will continue to develop their reading, writing, speaking and listening skills through a variety of poetry, novels, short stories, plays and nonfiction writings. (050170)

English 11	Full year	1.0 credit
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Students will read and respond to a wide variety of American Literature, Students will be expected to read and write at, near, or above grade level. Students will hone their reading and writing skills in preparation for the ACT college entrance assessment. The genres of non-fiction, fiction, and poetry will be studied. (050180)

CCP Composition I	Full year	1.0 credit
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Prerequisite: Recommendation from 10th grade English teacher. SRI reading levels match grade level or above, 80% on writing assessments

Composition I is a writing-intensive course designed to improve critical thinking, reading, and writing skills. Students will address, in writing, the needs of different audiences in a variety of purposes and contexts. The focus will be primarily on source-based, argument-driven writing and reading with an academic context. (050400)
(Earn Rio Grande ENG 11103, 3 credit hours – must meet CCP requirements)

CCP Composition II	Full year	1.0 credit
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Prerequisite: CCP Composition I (ENG 11103) with a C- or better

Composition II is a continued study of the writing process, focusing on cause and effect and on argument. Research writing is studied, and the different forms of documentation are introduced. Required: short papers and a longer, properly documented research paper. (050400)
(Earn Rio Grande ENG 11203, 3 credit hours)

AP English – Literature	Full year	1.0 credit
Prerequisite: Complete summer reading list, recommendation from 11th grade English teacher, SRI reading levels match grade level or above, agreement to take AP test in May.		
The AP English Literature and Composition course is designed to engage students in careful reading and critical analysis of imaginative literature. Through the analysis of selected texts, students can deepen their understanding of the ways writers provide both meaning and pleasure for their readers. As they read, students will consider a work's structure, style, and themes, as well as such smaller scale study of the use of figurative language, imagery, symbolism, and tone. Students will prepare for the AP exam to be given in May. (059930)		

College Prep English 12	Full year	1.0 credit
Students will develop the language skills necessary to succeed in both college and a career; Students will read and respond to a wide variety of work with an emphasis placed on British Literature, Students will be expected to read and write at or near grade level. The genres of poetry, non-fiction, and fiction will be covered with an importance placed on analytical writing and reading skills. (050190)		

Career English 12	Full year	1.0 credit
This course concentrates on areas of literature, media, composition and career exploration. Students who take this course may be planning to enter the workforce, obtain a technical certificate, or complete an associate degree. The course will emphasize reading skills, vocabulary, and analytical thinking and writing. Students will be reading different genres to comprehend, interpret, and analyze. (050190)		

ENGLISH LANGUAGE ARTS ELECTIVES:

Books to Watch	Semester/Full year	0.5/1.0 credit
Stories are ingrained in our lives, whether it is through storytelling, books, television, or movies. In this sophomore, junior, senior course, students will examine what happens when a story is told through the medium of film. Students will read the original text of the story and watch the accompanying film. While comparing/contrasting, researching, and analyzing vocabulary, students will critique stories and films from a variety of genres. (290050)		

Journalism	Semester/Full year	0.5/1.0 credit
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Students will learn journalistic style and skills by working on a variety of projects such as the yearbook, school newspaper, “Rocket Round Up”, and in-class writings, Students will learn to write the gamut of newspaper coverage from front page to sports, Students will also learn the journalistic ethics that a good reporter should know and possess. (050403)

Creative Writing	Semester	0.5 credit
Prerequisite: 11th and 12th grade; must have a D or higher in both 9th and 10th grade English classes		
This course includes a study of various forms of prose and poetry and gives students the experience to write creatively in different genres and develop their literary talents. (059999)		

Mythology	Semester	0.5 credit
Prerequisite: 11th and 12th grade; must have a D or higher in both 9th and 10th grade English classes		
Mythology and folklore have long been used as a way to make sense of humankind and our world. This course will focus primarily on Greek and Roman myths and how these classical myths compare with those from other cultures as well as how they are still shaping society today. (059999)		

MATHEMATICS

Algebra IA	Full year	1.0 credit
Prerequisite: Teacher recommendation, Math 8 grade, and OST Score		
The first course in a two-year sequence to reinforce foundational math concepts. These concepts include addition, subtraction, multiplication, and division of integers, conversions between fractions and decimals and proper and improper fractions, solving linear equations, factoring and solving quadratic equations, and graphing linear equations. Students will be prepared to study Algebra 1B at the conclusion of this course.		

Algebra IB	Full year	1.0 credit
Prerequisite: Algebra IA, teacher recommendation		
The second course in a two-year sequence to reinforce foundational math concepts. Algebra 1B continues development in concepts including addition, subtraction, multiplication, and division of integers, conversions between fractions and decimals and proper and improper fractions, solving linear equations, factoring & solving quadratic equations, and graphing linear equations. Algebra IB further develops the concepts of functions, inequalities, systems of equations, graphing equations and reading various forms of tables. Students will be prepared to study Geometry at the conclusion of this course.		

Algebra I	Full year	1.0 credit
The first course in a four-year sequence that addresses relationships between quantities, reasoning with equations, linear and exponential relationships, descriptive statistics, expressions and equations, and quadratic functions and modeling. Algebra I is considered a “gatekeeper” course because of its importance for the success in the remainder of high school, college, and careers. It could be the most important math class most students take. Algebra I is the foundation for high school math, taking students from concrete math to abstract math. This course is designed to prepare all students for all levels of high school and future standardized tests such as the ACT or SAT. Students will be prepared to study Geometry at the conclusion of this course. (110301)		

Geometry	Full year	1.0 credit
The second course in a four-year sequence that addresses transformations, properties of geometric figures, special angle pairs, symmetry, coordinate geometry, applications, data analysis, circles, filling in proofs, extending to three dimensions, trigonometry, similarity and probability. Algebra 1 skills are used throughout the course. Students should plan to spend at least 15-20 minutes per night on outside class preparation. Students will be prepared to study Algebra II at the conclusion of this course. (111200)		

Honors Geometry	Full year	1.0 Credit
Prerequisite: Algebra I, Teacher Recommendation		
This is an advanced more in-depth second course in a four-year sequence that addresses constructions, transformations, properties of geometric figures, special angle pairs, symmetry, coordinate geometry, applications, data analysis, circles, proof writing, extending to three dimensions, trigonometry, similarity and probability. Also included are volume, surface area, proof writing, constructions, inductive reasoning, deductive reasoning, density, and polygons. Algebra 1 skills are used throughout the course. Students should plan to spend at least 15-20 minutes per night on outside class preparation. Students will be prepared to study Algebra II at the conclusion of this course. (111200)		

Honors Algebra II	Full year	1.0 credit
Prerequisite: B or better in Geometry and/or Algebra 1, successfully completed Honors Geometry		
The third course in a four-year sequence that addresses exponents, quadratic expressions/functions/equations, complex numbers, and rational expressions/functions. This course will also be working towards preparing students for the ACT test and college math placement tests. This is a fast-paced and rigorous course. Students will be prepared to take Advanced Mathematics (Pre-Calculus), or Statistics. (110302)		

Algebra II	Full year	1.0 credit
Prerequisite: C or better in Geometry and/or Algebra 1		
The third course in a four-year sequence that addresses exponents, quadratic expressions/functions/equations, complex numbers, and rational expressions/functions. This course will also be working towards preparing students for the ACT test and college math placement tests. Students will be prepared to take Transition to College Mathematics, Advanced Mathematics (Pre-Calculus), or Statistics. (110302)		

Applied Algebra II	Full year	1.0 credit
This class focuses on the math skills that are required in everyday life and workplace. Students will be required to calculate with and without the use of calculators. Students are working towards the Work Keys test and credentialing. Upon successful completion of this course, students will be prepared to take Transition to College Mathematics. (110500)		

Transition to College Mathematics	Full year	1.0 credit
Prerequisite: Applied Algebra II or Algebra II		
A course designed for students in grades 11-12 making a transition to a college preparatory program. The content is to place emphasis on bringing about a deeper understanding of those mathematical relationships through the use of graphing calculators for the first half of the year. The second semester covers topics that will prepare students for real world applications emphasizing financial literacy. Topics may include: systems of linear equations, complex numbers, quadratic functions, logarithms, trigonometry, matrices, circles, conic sections, statistics, and financial literacy topics such as credit card analysis, filing taxes, purchasing a vehicle. (111850)		

Advanced Mathematics (Pre-Calculus)	Full year	1.0 credit
Prerequisite: C or better in Algebra II		
The fourth course in a four-year sequence which addresses advanced content in Algebra, Functions, Geometry, Statistics and Probability, and/or the conceptual underpinnings of Calculus. Emphasis will be placed on the study of trigonometry, the unit circle, and algebraic, polynomial, exponential, and logarithmic functions. (110099)		

Statistics	Full year	1.0 credit
Prerequisite: Algebra II		

The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: Exploring Data, Sampling and Experimentation, Anticipating Patterns, and Statistical Inference. (119550)

Calculus	Full year	1.0 credit
Prerequisite: Advanced Mathematics (Pre-Calculus)		
A formal study of topics from Calculus that is not associated with the Advanced Placement Program. It extends the use of general geometry and algebra to the notions of limits and limiting processes. This course extends the ideas from Pre-Calculus into formal definitions and theorems. The two principal concepts that form the nucleus of calculus are the derivative and the integral. Calculus applies the derivative and integral to our physical environment. Upon successful completion of this course, students will be able to continue their study of calculus and other math topics and explore physical sciences, computer science, engineering, economics, business, and statistics, to name a few. A graphing calculator will be used. Calculus is NOT a requirement for college acceptance. (110600)		

EOC Tutoring	Semester	0.5 credit
Required: For students who will retake Algebra EOC		
EOC Tutoring is intended for students who have passed Algebra I during freshman year; however, they received a 1 or 2 on the Algebra End of Course Exam. Students will review and reinforce necessary content to pass the Algebra I EOC on their retake at the end of the semester.		

ACT/WorkKeys Prep	Semester	0.5 credit
Prerequisite: Must be enrolled or have completed Algebra II		
This course will provide students more confidence of their ability to work with various concepts tested in the math section of the ACT and WorkKeys. Active involvement in and successful completion of the course should lead the student to greater confidence and higher scores on the math section of the ACT and WorkKeys.		

SCIENCE

Biology	Full year	1.0 credit
This is a freshman-level course required for graduation. The course investigates diversity and interconnectedness of life on earth; cell structure, function and processes; heredity through genetics; and the mechanisms and results of evolution. (132230)		

Honors Biology	Full year	1.0 credit
Prerequisites: Lexile of 1205L or higher, teacher recommendation, B+ or higher in 8th grade science		

This is an advanced and challenging biology course that can be used to fulfill the life science graduation requirement. The course investigates diversity and interconnectedness of life on earth; cell structure, function and processes; biochemistry; heredity through genetics; the mechanisms and results of evolution; an introduction to animal diversity as well as anatomy and physiology; and conservation. Students interested in this course must have a strong academic background and interest in attending college upon graduation. (132230)
(Option to earn Rio Grande BIO 11404, 4 credit hours includes lab – must meet CCP requirements)

Physical Science	Full year	1.0 credit
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Physical Science is a required course for all sophomores. The course investigates the classification of matter, energy and waves, forces and motion, the history and formation of the universe. (132220)

Chemistry	Full year	1.0 credit
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Prerequisite: Grades 10, 11, or 12

Recommended: Student receives a B or higher in Biology or passed Honors Biology

This course will examine the relevance of chemistry to society while applying the scientific method. Students will learn about scientific measurements, change of matter, atomic structure, chemical bonding, molecular structure, the periodic table, chemical equations, reaction energetics, phases of matter, solutions and concentrations, the pH scale, oxidation/reduction reactions, and nuclear chemistry. (130301)

Human Anatomy & Physiology	Full year	1.0 credit
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Prerequisite: Grades 11 or 12

Recommended: Student receives a C or higher in Biology, but not required

Anatomy is an advanced and challenging life science course that will involve an in-depth study of the various body systems requiring students to participate in dissection of mammalian organs and specimens; Students will study various diseases and participate in medical ethics discussions. The course is designed for those who are considering a career in healthcare or fitness, but is appropriate for students who are interested in learning about the structures of the human body and their function. (131050)

CCP Principles of Biology	Full year	1.0 credit
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Prerequisites: Lexile of 1205L or higher, teacher recommendation, B+ or higher in Biology

This is an advanced science course designed to introduce students to selected topics in biology at a college level. This course will cover topics about molecules, cells, evolution, development and organization of life. Through lab activities and other assignments, students will learn to analyze data and use the scientific method to solve problems.
(Earn Rio Grande BIO 11404, 4 credit hours includes lab – must meet CCP requirements)

Physics	Full year	1.0 credit
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Prerequisite: Pass Algebra II before course begins or teacher recommendation

The course is designed to give the student an understanding of the elementary principles of physics. This course challenges the students to think analytically and logically and stresses the use of mathematics to aid in the understanding of concepts. (130302)

Forensic Science**Semester****0.5 credit****Prerequisite: successful completion of Physical Science and Biology; Grade 11 or 12**

This course investigates the processes and analyses used by criminologists to investigate a crime scene and prepare evidence including hair and fibers, fingerprints, blood spatter, DNA, time of death determination factors and skeletal remains. Laboratory activities will be a major component of the course. (139997)

Environmental Science for Agriculture & Natural Resources**Full Year****1.0 credit****Prerequisite: successful completion of Physical Science and Biology, Grade 11 or 12**

Learners will study relationships between organisms and their environment. Principles of biogeochemical cycles, air-water-land relationships, non-point pollution, and wetlands will be applied. Learners will examine economic fundamentals of resource development, agriculture sustainability, energy needs and pollution control. Learners will analyze and interpret data gathered from ecosystems, population studies, forest management practices, pesticide use, land use and waste management. Learners will develop responses to environmental problems and develop management strategies for responsible conservation and resource development. (010720)

Earth Science**Semester****0.5 credit****Prerequisite: successful completion of Physical Science and Biology, Grade 11 or 12**

This course investigates concepts including astronomy, oceanography, meteorology, geology, and natural resources. This course includes inquiry-based laboratory experiences that engage students in asking valid scientific questions and gathering and analyzing information. (132340)

SOCIAL STUDIES**World History and Civilizations****Full year****1.0 credit**

This course covers the span of European history from 1700 to the present. Topics include: The Enlightenment, French Revolution, Industrial Revolution, the Age of Imperialism, World War One and its aftermath, World War II, and the current movement toward a global civilization and economy. Students also study forms of government, forms of economic systems, and the political geography of Europe. (150890)

Honors World History and Civilizations	Full Year	1.0 credit
Prerequisite: Lexile score of 1205L and teacher recommendation		
This course will take a more in depth look at European history from 1700 to the present. We will explore topics such as the Enlightenment, French Revolution, Industrial Revolution, Imperialism, World War I and II and Globalization through primary and secondary sources. This class will have a major reading and writing component. (150890)		
American History	Full year	1.0 credit
This course examines the history of the United States of America from 1877 to the present. Understanding how these events came to pass and their meaning for today's citizens is the purpose of this course. The concepts of historical thinking introduced in earlier grades continue to build with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions. (150810)		
AP American History	Full year	1.0 credit
Prerequisite: B or higher in Honors World History, Teacher recommendation and Lexile score of 1220		
This course examines the history of the United States of America from 1491 to the present day. Students will investigate significant events, individuals, and processes in the nine historical periods. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical comparisons; and utilizing reasoning about contextualization, causation, and continuity and change over time. The course also provides seven themes that students explore throughout the course in order to make connections among historical developments in different times and places: American and national identity; migration and settlement; politics and power; work, exchange, and technology; America in the world; geography and environment; and culture and society. (150810)		
Government and Economics	Full year	1.0 credit
The 11th grade course in Government is intended to provide students a critical perspective on politics, government, and financial literacy. How the American people govern themselves at national, state, and local levels of government is the basis of this course. Students will discover how they can impact political issues by participating in service learning and projects. This course contains both the study of general concepts used to interpret American policymaking and a portion specifically directed at financial preparedness. (150308)		
AP Government	Full year	1.0 credit
Prerequisite: Teacher recommendation and Lexile score of 1250 or a score of 50% on the government entrance exam		
Students will study general concepts used to interpret U.S. government and politics and analyze specific topics including: Constitutional Underpinnings; Political Beliefs and Behaviors; Political Parties, Interest Groups, and Mass Media; Institutions of National Government; Public Policy; and Civil Rights and Civil Liberties. An integral part of the course includes analysis and politics, and the development of connections and application of relevant theories and concepts. (150300)		

SOCIAL STUDIES ELECTIVES:

World Geography	Semester	0.5 credit
The study of the physical features of the earth and of the human activity as it affects and is affected by the distribution of populations and resources, land use, and industries. (150700)		
History through Conspiracies	Semester	0.5 credit
Prerequisite: Grade 10, 11, or 12		
The purpose of this course is to focus on critical thinking, which promotes the ability to obtain information, critique, problem solve, and communicate using appropriate forms of civic discussion. This course will provide a look at history by comparing official explanations of events with those of popular conspiracy theories. (159999)		
Street Law	Semester	0.5 credit
Prerequisite: Grade 10, 11, or 12		
Street Law gives the student an opportunity to study America's legal system. This class will focus on criminal law. Students will learn the different types of legal defense in America, and how America's criminal justice system works. (159999)		
Contemporary Issues	Semester	0.5 credit
Prerequisite: Grade 10, 11, or 12		
Contemporary Issues is a current events course that examines issues and topics in social studies, including nationalist and internationalist movements and organizations; concerns for human rights & civil rights and the environment; economic growth and stability, and the individual's rights and means in contributing to societal changes. (152150)		
Comparative Government and Politics	Semester	0.5 credit
Prerequisite: Grade 10, 11, or 12		
This course will focus on fundamental concepts used by political scientists to study the processes and outcomes of politics in a variety of countries and settings. The course aims to illustrate the rich diversity of political life, to show available institutional alternatives, to explain differences in processes and policy outcomes, and to communicate the importance of global political and economic changes. (159960)		
Psychology	Semester	0.5 credit

Prerequisite: Grade 11 or 12

Psychology studies the human mind and its influence on behavior. In this course, we will examine the different schools and perspectives for examining the mind; conduct psychological experiments; and learn the methods of controlling human behavior and the developmental stages associated with the healthy mind, mental illness, and abnormal behavior. (151121)

Sociology**Semester****0.5 credit****Prerequisite: Grade 11 or 12**

Sociology studies social relationships, institutions, and group behavior in societies. (151300)

PHYSICAL EDUCATION & HEALTH

Graduation Requirement: 0.5 credit (2 Semesters) of Physical Education or SB 311 allows school districts to adopt a policy exempting students who participate in interscholastic athletics, marching band, or cheerleading for two full seasons or two years of JROTC from the physical education requirement.

Physical Education I**Semester****0.25 credit**

The physical education program at Wellston High School parallels the newly adopted state framework for physical education. It is based on the disciplines of motor learning, physical fitness, and athletic/sport skills. During each semester the students will be actively involved in various physical fitness activities that will help to develop physical strength, endurance and cardiovascular health. Each student will also be actively participating in a wide variety of sports. These sports include flag football, volleyball, ultimate Frisbee, badminton, basketball, soccer, hockey, lacrosse, whiffle ball and others. The students will learn and develop a skill set of each sport. This program is designed to enhance and promote a healthy, active lifestyle through physical education. (080300)

Physical Education 2	Semester	0.5 credit
Prerequisite: B or better in PE I		
Each student will actively participate in a wide variety of sports. These sports include flag football, volleyball, ultimate Frisbee, badminton, basketball, soccer, hockey, lacrosse, whiffle ball and others. This course is designed for students who want to take physical fitness to the next level. It requires a high degree of activity every day. The competitiveness and skill level are amped up from the general Physical Ed classes. The students will learn and develop a skill set of each sport. This program is designed to enhance and promote a healthy, active lifestyle through physical education. (080300)		

Conditioning & Weights	Semester	0.5 credit
*This course will not count towards PE I graduation requirement		
This course is designed for students who want to take physical fitness to the next level. It requires a high degree of activity every day. The students will be required to participate in written exams and strength and fitness tests. Focused activities and sports in this course include physical conditioning such as jump rope, agility training, speed training, and weight training. (080300)		

Fitness Walking	Semester	0.5 credit	Pass/Fail
The purpose of this class is to assist the student in the improvement of their cardiovascular fitness through walking. This course also seeks to increase the student's knowledge of training methods so that they may develop their own programs.			

Health Education	Semester	0.5 credit
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The purpose of this health education course is to provide the basis for developing knowledge, concepts, skills, behaviors and attitudes related to student health and well-being. This course is the study of one's overall quality of living with respect to their physical, mental, social and emotional well-being. Topics that may be included are: healthy relationships, decision making, refusal skills, dating violence, self-esteem, bullying, stress management, nutrition, physical health, mental health, drugs, alcohol, tobacco, human body systems, and sex education (including sexually transmitted diseases). Students are provided opportunities to explore the effect of health behaviors on an individual's quality of life. Health education will assist students to understanding that health is a lifetime commitment of analyzing individual risk factors and health decisions that promote health and prevent diseases. (260101)

WORLD LANGUAGE

Spanish I	Full year	1.0 credit
Prerequisite: B- or higher in English or teacher recommendation		
The Spanish language is taught through listening, speaking, reading and writing skills. The language is used in communicative and creative activities in a cultural context. (060265)		
Spanish II	Full year	1.0 credit
Prerequisite: C- or higher in Spanish I and B- or higher in English or teacher recommendation		
Continue to develop skills in listening, speaking, reading, and writing. (060265)		
Spanish III	Full year	1.0 credit
Prerequisite: C- or higher in Spanish II and B- or higher in English or teacher recommendation		
The language is used in more communicative, creative and critical thinking activities. (060265)		
Spanish IV	Full year	1.0 credit
Prerequisite: C- or higher in Spanish III and B- or higher in English or teacher recommendation		
Students continue to develop reading strategies and writing skills by writing and editing compositions. (060265)		
Hispanic Cultures	Semester	0.5 credit
This course is designed to explore the Hispanic culture. (060265)		

MUSIC

High School Band	Full Year	1.0 credit
This is a year round course which begins with summer marching band in July. All students are required to participate in all aspects of the HS band including: Marching Band, Concert Band, Solo and Ensemble, and all other public performances throughout the year. (120500)		
High School Choir	Full Year	1.0 credit
This is a yearlong course. Students will perform Vocal music for events throughout the school year. Students are required to attend all performances. (120400)		
History of Rock and Roll	Semester	0.5 credit
Students will learn about the history of Rock and Roll from its roots in Folk Music, The Blues, Country and Western, Jazz and Classical Music. Much of the year is spent discussing artists such as Elvis, The Beatles, Jimmy Hendrix, and all music from the 1950's through today. We will discuss the Music and Social Implications of the music. Since the topic is Rock and Roll we will watch many videos and live performances of the artists. Students and parents are required to sign a waiver giving permission to discuss such topics as drug use, alcohol use and the life of a Rock and Roll Musician. (129999)		

ART

Survey of Art	Semester/Full Year	0.5 credit/1.0 credit
Beginning- foundation in the visual arts, elements, styles, and critical analysis for beginning art students. Media: Graphite, colored pencil, marker, paint, pen and ink. Demonstrate basic technical skill and craftsmanship with various art media when creating images from observation, memory and imagination. Apply the elements and principles of art and design using a variety of media to solve specific visual art problems. Projects will be influenced by artists and artwork throughout history. Grades are based on: guided sketchbook/workbook. Fee \$20 (020100)		
Art I	Full year	1.0 credit
Prerequisite: B or higher in Survey of Art or Teacher Approval		
Intermediate-2D skills reinforced and a more involved study of 3D work. Media: graphite, colored pencil, pen and ink, printmaking, watercolor, scratch art, acrylic. Demonstrate proficient technical skills and craftsmanship with various art media when creating images from observation, memory, or imagination. Make informed choices in the selection of materials and techniques as they relate to solving a visual problem. Grades are based on numerous projects per quarter. Fee \$40 (020100)		
Art II	Full year	1.0 credit
Prerequisite: B or higher in Art I		
Accelerated-even involvement in 2 and 3 dimensions. Media: graphite, colored pencil, ink, printmaking, watercolor, scratch art, clay. Demonstrate increased technical skill and craftsmanship with various art media when creating images from observation, memory and imagination. Make informed choices in the selection of materials and techniques that relate to solving a visual problem. Grades are based on numerous projects per quarter. Fee \$40 (020100)		
Art III	Full year	1.0 credit
Prerequisite: Teacher Recommendation		
Advanced-student choice of concentration in one or more areas of art media: all of the above and wood burning. Apply self-direction, independence and a purposed approach when defining and solving a visual design problem. Demonstrate advanced technical skills and craftsmanship with various art media when creating images from observation, memory and imagination. Visually express complex concepts and meaning in their artworks. Analyze and explain the relationship between the content and ideas in artworks and the use of media and compositional elements. Defend personal philosophies of art based on a connection to aesthetic theories and visual culture. Grades are based on numerous projects per quarter. Fee \$40 (020100)		

Senior Studio	Full year	1.0 credit
Prerequisite: Teacher Recommendation		
Accomplished- student directed course of study. Having demonstrated advanced technical and conceptual skills, students have the opportunity to explore visual design problems of their own choosing. Students will be self-motivated while instruction is given as guidance toward personal goals. Each student will be required to submit quarterly goals within the first week of class. Grades are based on: 2 student selected projects and 4 sketchbook pages per quarter. Fee \$40 (020100)		
Crafts	Semester	0.5 credit
Beginning/Intermediate- Students acquire utilitarian skills including weaving, wire sculpture, nature art, fabrics, paper art, basketry, etc. Objects by professional crafts persons are studied for their formal, expressive, and technical qualities. Fee \$20 (020240)		

BUSINESS

Business Foundations	Semester	0.5 credit
This is the first course for the Business and Administrative Services, Finance and Marketing career fields. It introduces students to specializations within the three career fields. Students will obtain knowledge and skills in fundamental business activities. They will acquire knowledge of business processes, economics and business relationships. Students will use technology to synthesize and share business information. Employability skills, leadership and communications and personal financial literacy will be addressed. (141000)		
Fundamentals of Business and Administrative Services	Semester	0.5 credit
This is the first course specific to the Business and Administrative Services career field. It introduces students to the specializations offered in Business and Administrative Services. Students will obtain fundamental knowledge and skills in general management, human resources management, operations management, business informatics and office management. They will acquire knowledge of business operations, business relationships, resource management, process management and financial principles. Students will use technological tools and applications to develop business insights. (142000)		
Finance Foundations	Semester	0.5 credit
This is the first course specific to Finance. It introduces students to the specializations offered in the career field. Students will obtain fundamental knowledge and skills in accounting, banking services, corporate finance, insurance, and securities and investments. They will acquire knowledge of financial analysis and application, business law and ethics, economics, international business and business relationships. Knowledge management and information technology will be emphasized. Employability skills, leadership and communications will be incorporated in classroom activities. (143000)		
Marketing Principles	Semester	0.5 credit
This is the first course in the Marketing career field. It introduces students to the specializations offered in Marketing. Students will obtain fundamental knowledge and skills in marketing communications, marketing management, marketing research, merchandising and professional selling. They will acquire knowledge of marketing strategies, market identification techniques, employability skills, business ethics and law, economic principles and international business. Technology, leadership and communications will be incorporated in classroom activities. (144000)		
Management Principles	Full Year	1.0 credit

Prerequisite: 10, 11, or 12 grade		
Students will apply management and motivation theories to plan, organize and direct staff toward goal achievement. They will learn to manage a workforce, lead change, and build relationships with employees and customers. Students will use technology to analyze the internal and external business environment, determine trends impacting business, and examine risks threatening organizational success. Ethical challenges, project management and strategic planning will also be addressed. (141025) (CTAG: Earn BUS 1102, 3 credit hours, from Hocking College)		
Human Resource Management	Full year	1.0 credit
Prerequisite: 10, 11, or 12 grade		
Students will develop human resources strategies to obtain, retain, and effectively use talent throughout the organization. Students will utilize technology to create job applications, job descriptions, and job profiles to support the talent acquisition process. They will learn to recruit applicants, administer employment assessments, conduct background investigations, and make and communicate hiring decisions. Students will also develop employee handbooks and establish performance improvement processes. Rewards and recognition practices, relationship management and compliance will be addressed. (142035) (CTAG: Earn BUS 2210, 3 credit hours, from Hocking College)		
Business Informatics	Full year	1.0 credit
Prerequisite: 10, 11, or 12 grade		
Students will capture and use organizational knowledge and data to solve business problems and meet specific business needs. Students will select tools and techniques to facilitate knowledge sharing. They will also maintain and update knowledge management systems. They will examine business issues using business process analysis and complete data research and analysis using structured approaches and tools. Relationship management and project management skills will also be emphasized. (142040)		
Business Administration Marketing	Full Year	1.0 credit
Prerequisite: 10, 11, or 12 grade		
Students will obtain fundamental knowledge of marketing activities, including sales channels, marketing-information management, marketing research, market planning, marketing communications, pricing, product and service management, branding and selling. They will conduct marketing research, identify target markets, conduct market and competitive analyses, forecast sales, set marketing goals, establish a marketing budget and develop a marketing plan. Legal and ethical issues in marketing will be addressed. Employability skills, technology, leadership and communications will be incorporated in classroom activities. (141010) (CTAG: Earn BUS 1110, 3 credit hours, from Hocking College)		
Digital Marketing and Management	Full year	1.0 credit
Prerequisite: 10, 11, or 12 grade		

Students will apply tools, strategies and processes to communicate digitally with targeted customers. They will create, implement, and critique online advertising, email marketing, websites, social media, mobile marketing, search-engine optimization, video or images and podcasts/webcasts. Students will apply project management techniques to guide and control digital communications efforts. They will also create and repurpose content for use in digital environments. Technology, employability skills, leadership and communications will be incorporated in classroom activities. (144015)
(CTAG: Earn ED 1102, 3 credit hours, from Hocking College)

Office Management	Full year	1.0 credit
Prerequisite: 10, 11, or 12 grade		
Students will apply techniques used to manage people and information in a business environment. Students will learn to build relationships with clients, employees, peers and stakeholders and to assist new employees. They will manage business records, gather and disseminate information, and preserve critical artifacts. They will also examine contracts, internal controls and compliance requirements. Business office tools and applications will be emphasized. (142005)		

Business and Administrative Services Career Pathway:								
9	English 9	Algebra I	Biology	World History	Physical Education	Fresh. Academy	Spanish I	Business Foundations
					Health			Finance Foundations
10	English 10	Geometry	Physical Science	American History	Physical Education	Soph. Academy	Spanish II	Fund of Bus and Admin Services
					Elective			Marketing Principles
11	English 11	Algebra II	Chemistry or Physics or Environmental Science	Government and Economics	Digital Marketing and Management	Journeys	Spanish III	Human Resource Management
						Elective		
12	English 12	Statistics or Advanced Math	Chemistry or Physics or Environmental Science or Human A&P	Social Studies Elective	Office Management	Senior Success	Business Informatics	Pre-Apprenticeship (Work Study)

Career Technical Courses
Required Courses
Recommended Elective Courses

Industry Recognized Credentials Offered:

Google AdWords Certification (1)	Microsoft Office Specialist - Excel (3)
Google Analytics Certification (1)	Microsoft Office Specialist - Outlook (3)
Microsoft Office Specialist - Word (3)	Microsoft Office Specialist - Access (3)
Microsoft Office Specialist - PowerPoint (3)	

NATURAL RESOURCE MANAGEMENT

Agriculture, Food and Natural Resources	Full Year	1.0 credit
This first course in the career field is an introduction to Agricultural and Environmental Systems. Students will be introduced to the scope of the Agricultural and Environmental Systems career field. They will examine principles of food science, natural resource management, animal science & management, plant & horticultural science, power technology and bioscience. Students will examine the FFA organization and Supervised Agricultural Experience pro-grams. Throughout the course, students will develop communication, leadership and business skills essential to the agriculture industry. (010105)		
Natural Resources	Full Year	1.0 credit
Students will apply science principles and management practices to the protection of renewable and non-renewable natural resources. Students will learn fundamentals of land use as well as watershed, wildlife, fishery and forest management. Furthermore, students will learn management practices related to managing air and water quality along with requirements for managing solid and liquid waste. Throughout the course, students will apply communications, business principles and leadership skills. (010710)		
Oil and Gas Operations	Full Year	1.0 credit
Students will develop the skills applicable to careers in petroleum, natural gas and coal industries. They will learn practices related to exploration, leasing, surveying, drilling, geophysical logging and completion process. Students will be familiar with wellhead and surface production equipment and interpret production histories and graphs. Students will learn sampling, analysis, monitoring and control techniques for effective environmental management in the ex-tractive industries and the principals of metering, sales and marketing. (010718)		
Environmental Science for Agriculture & Natural Resources	Full Year	1.0 credit
Prerequisite: successful completion of Physical Science and Biology, Grade 11 or 12		

Learners will study relationships between organisms and their environment. Principles of biogeochemical cycles, air-water-land relationships, non-point pollution, and wetlands will be applied. Learners will examine economic fundamentals of resource development, agriculture sustainability, energy needs and pollution control. Learners will analyze and interpret data gathered from ecosystems, population studies, forest management practices, pesticide use, land use and waste management. Learners will develop responses to environmental problems and develop management strategies for responsible conservation and resource development. (010720)

Natural Resource Management Career Pathway:								
9	English 9	Algebra I	Biology	World History	Physical Education	Fresh. Academy	Spanish I	Ag, Food and Natural Resources
					Health			
10	English 10	Geometry	Physical Science	American History	Physical Education	Soph. Academy	Spanish II	Natural Resources
					Elective			
11	English 11	Algebra II	Environmental Science for Ag and Natural Resources	Government and Economics	Fine Art Elective	Journeys	Spanish III	Environmental Systems Management
						Elective		
12	English 12	Statistics or Advanced Math	Chemistry or Physics or Human A&P	Social Studies Elective	Elective	Senior Success	Oil and Gas Operations	Pre-Apprenticeship (Work Study)

Environmental Systems Management**Full Year 1.0 credit**

Learners will analyze and interpret biological, chemical and physical properties of soil, water and air. They will determine the source and type of environmental contamination, evaluate pollution control measures and be prepared to respond accordingly. Learners will be able to monitor treatment processes for potable water, waste water and solid waste. Learners will develop and implement environmental plans using principles governing ecosystems in relation to re-source development and industrial processes. (010725)

Career Technical Courses
Required Courses
Recommended Elective Courses

Industry Recognized Credentials Offered:

Ohio EPA Professional Class A Wastewater Operator OIT (Operator in Training) (12)

Ohio EPA Professional Class A Water Operator OIT (Operator in Training) (12)

HAZWOPER Technician Level (6)

Forklift Operation (1)

Hazardous Waste Operations and Emergency Response (HAZWOPER) Awareness Level (1)

Occupational Safety and Health Administration (OSHA) 10-Hour Training (1)

CPR First Aid (1)

Occupational Safety and Health Administration (OSHA) 30-Hour Training (1)

Leadership Excellence - Student (3)

FAMILY & CONSUMER SCIENCE/HOSPITALITY & TOURISM

Principles of Food	Semester	0.5 credit
In this course, students will gain knowledge in food selection criteria and apply preparation methods to promote a healthy lifestyle. Students will apply cooking methods, ingredient selection and nutritional information in the context of selected food dishes. Throughout the course, basic food safety and sanitation techniques will be emphasized.		

Culinary Fundamentals	Semester	0.5 credit
Prerequisite: Principles of Food		
In this course, students will apply fundamental culinary techniques, such as knife handling skills and the recognition, selection and proper use of tools and equipment. An emphasis will be placed on the food system and sustainability, as well as culture and food.		

Hospitality Fundamentals	Full Year	1.0 credit
This first course in the career field will introduce students to culinary arts, foodservice operations, lodging, travel and tourism. Students will obtain knowledge of customer service principles and examine the impact of cultural, historical, social, and technological developments on key segments of the industry. They will also apply safety and sanitation techniques to prevent and control injuries, illnesses and diseases in the workplace. Business law, employability skills, leadership and communications will be addressed. (330000)		

Event and Food Planning	Full Year	1.0 credit
Prerequisite: 10, 11, or 12 grade		

Students will design and organize meetings and events. They will analyze risks, identify needs and develop strategies for achieving event goals. Students will also set up event facilities, manage event activities and evaluate event success. Other topics addressed in the course include menu development, customer service, people management, simple food production, sales and marketing. (330021)

Travel and Adventure Planning	Full Year	1.0 credit
Prerequisite: 10, 11, or 12 grade		
Students will apply knowledge of travel destinations, tourist attractions and events of interest to plan and coordinate travel and tourism activities for customers. They will analyze cultural, historical and environmental factors impacting travel and tourism; examine challenges, opportunities and trends associated with the industry; and develop strategies for promoting travel and tourism. Social media marketing, brand positioning, marketing research and employability skills will also be addressed. (330040)		

Dining Room Service and Operations	Full Year	1.0 credit
Prerequisite: 10, 11, or 12 grade		
Students will apply strategies and techniques to identify and meet dining guest needs. They will provide table and beverage service; maintain eating areas, meeting spaces and serving stations; manage online reservations and orders; and monitor table turns, wait lines and table assignments. Nutritional analysis, types of table service, safety and sanitation, cultural intelligence, employability skills and communications will also be addressed. (330110)		

Hospitality and Tourism Career Pathway:								
9	English 9	Algebra I	Biology	World History	Physical Education Health	Fresh. Academy	Spanish I	Hospitality Fundamentals
10	English 10	Geometry	Physical Science	American History	Physical Education Elective	Soph. Academy	Spanish II	Event and Food Planning
11	English 11	Algebra II	Chemistry or Physics or Environmental Science	Government and Economics	Fine Art Elective	Journeys Elective	Spanish III	Travel and Adventure Planning
12	English 12	Statistics or	Chemistry or Physics or Environmental	Social Studies Elective	Dining Room	Senior Success	Elective	Pre-Apprenticeship (Work Study)

		Advanced Math	Science or Human A&P		Service and Operations			
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Industry Recognized Credentials Offered:

INTERACTIVE MEDIA

Information Technology	Full year	1.0 credit
This first course in the IT career field is designed to provide students with a working knowledge of computer concepts and essential skills necessary for work and communication in today's society. Students will learn safety, security, and ethical issues in computing and social networking. Students will also learn about input/output systems, computer hardware and operating systems, and office applications. (145005)		
Creating and Editing Digital Graphics	Full year	1.0 credit
Prerequisite: 10, 11, or 12 grade		
Students will learn to design, develop, and produce interactive media projects, web sites, and social media contexts. Students will demonstrate methods of creating professional quality media using commercial and open source software. (145100)		
Multimedia and Image Management Techniques	Full year	1.0 credit
Prerequisite: 10, 11, or 12 grade		
Students will apply principles of image creation, management procedures, and multimedia techniques as they create, revise, optimize, and export graphics for video, print, and web publishing. The course will address issues related to web based publishing, social media, and security. Students will utilize current commercial and open source languages, programs, and applications. (145105)		

Video and Sound	Full year	1.0 credit
Prerequisite: 10, 11, or 12 grade		
Students will create professional video and audio productions for distribution in traditional and new media channels. Students will plan, produce, edit, and launch media products. Students will develop scripts and storyboards, compose shots and operate cameras, capture sounds using microphone hardware, apply special effect techniques, and edit to achieve the final product. Students will be able to use animation and graphic design for video. (145110)		

Animation	Full Year	1.0 Credit
Prerequisite: 10, 11, or 12 grade		
Students will use animation and storyboarding techniques to plan the production of an animation project. Students will design from script and storyboard actions in the pre-production planning process. Students will use commercial and open source digital animation software to create finished animations, cartoons, and other short movies. They will accomplish this using animated text, character movements, voice, background sound, sound effects, camera movements, and multiple scenes. (145115)		

3-D Techniques	Full Year	1.0 Credit
Prerequisite: 10, 11, or 12 grade		
Students will use current industry standard commercial and open source programming software to create 3-D visual elements in a web or standalone environment. Students will learn aspects of computer visual production, thought, and application; to map out, design, and test three dimensional elements. (145120)		

Interactive Media Career Pathway:								
9	English 9	Algebra I	Biology	World History	Physical Education	Fresh. Academy	Spanish I	Information Technology
					Health			
10	English 10	Geometry	Physical Science	American History	Physical Education	Soph. Academy	Spanish II	Creating and Editing Digital Graphics
					Elective			
11	English 11	Algebra II	Chemistry or Physics or Environmental Science	Government and Economics	Multimedia and Image Management Techniques	Journeys	Spanish III	Animation
						Elective		

12	English 12	Statistics or Advanced Math	Chemistry or Physics or Environmental Science or Human A&P	Social Studies Elective	Video and Sound	Senior Success	3-D Techniques	Pre-Apprenticeship (Work Study)
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Career Technical Courses
Required Courses
Recommended Elective Courses

Industry Recognized Credentials Offered:

Google AdWords Certification (1)

Microsoft Office Specialist - Excel (3)

Google Analytics Certification (1)

Microsoft Office Specialist - Outlook (3)

Microsoft Office Specialist - Word (3)

Microsoft Office Specialist - Access (3)

Microsoft Office Specialist - PowerPoint (3)

PUBLIC SAFETY

Firefighter I	Semester (2 nd)	1.0 Credit
Prerequisite: Senior Only		
The Firefighter I course prepares students for a career in the fire service. Students learn the history of firefighting, fire science and techniques to fight fires and conduct rescues. Students will train with tools, appliances and fire equipment in the classroom and in live fire exercises. Students that successfully complete this course at a chartered institution will be eligible to take the Ohio Firefighter I certification test. (170343)		

Public Safety Career Pathway:								
9	English 9	Algebra I	Biology	World History	Physical Education	Fresh. Academy	Spanish I	Elective
					Health			
10	English 10	Geometry	Physical Science	American History	Physical Education	Soph. Academy	Spanish II	Elective
					Elective			

11	English 11	Algebra II	Chemistry or Physics or Environmental Science	Government and Economics	Fine Art Elective	Journeys	Spanish III	Elective
						Elective		
12	English 12	Statistics or Advanced Math	Chemistry or Physics or Environmental Science or Human A&P	Elective	Elective	Senior Success	Social Studies Elective	Elective
				Firefighter I	Firefighter I			

Career Technical Courses
Required Courses
Recommended Elective Courses

Industry Recognized Credentials Offered:

Ohio Department of Public Safety, Division of EMS – Ohio Firefighter I (12)

ENGINEERING AND DESIGN

Career Connections	Semester	0.5 Credit
In this course, students investigate how classroom learning translates into marketable skills. Through hands-on learning and local business involvement, students will engage in career-related experiences to acquire basic skills in various career fields. This provides students with tangible experiences to begin career decision making. Teachers have the flexibility to select career fields related to Ohio's in-demand jobs represented in the community. (990364)		
Engineering Principles	Full Year	1.0 Credit
This course will introduce students to fundamental engineering concepts and scientific principles associated with engineering design applications. Topics include mechanisms, energy, statics, materials, and kinematics. Additionally students will learn material properties and electrical, control and fluid power systems. Students will learn to apply problem solving, research and design skills to create solutions to engineering challenges. (175002)		
DC Electronic Circuits	Full Year	1.0 Credit

Students will learn the fundamental principles of electricity with emphasis on DC (direct current) circuits. They will use concepts of Ohm's Law, the Power Formula, and Kirchhoff's Laws with series, parallel, and series-parallel circuit applications. The relationship between electricity and magnetism and motor theory will also be introduced. The student will use and maintain digital multimeters and oscilloscopes. (175011)

Digital Electronics**Full Year****1.0 Credit**

Students are introduced to the process of combinational and sequential logic design. The system uses a precise sequence of discrete voltages, representing numbers, non-numeric symbols or commands for input, processing, transmission, storage, or display. Engineering standards and methods for technical documentation will also be learned. (175007)

Robotics**Full Year****1.0 Credit**

Students will apply the knowledge and skills necessary to program and operate Robots, using the teach pendant as the main interface point. The students will learn robotic operations and system configurations. Students will code, compile, and debug programs using the robotic programming language. (175004)

Engineering and Design Career Pathway:								
9	English 9	Algebra I	Biology	World History	Physical Education	Fresh. Academy	Spanish I	Engineering Principles
					Health			
10	English 10	Geometry	Physical Science	American History	Physical Education	Soph. Academy	Spanish II	DC Electronic Circuits
					Elective			
11	English 11	Algebra II	Chemistry or Physics or Environmental Science	Government and Economics	Fine Art Elective	Journeys	Spanish III	Digital Electronics
						Elective		
12	English 12	Advanced Math (Pre-Calculus)	Chemistry or Physics or Environmental Science or Human A&P	Social Studies Elective	Elective	Senior Success	Elective	Robotics

Career Technical Courses
Required Courses
Recommended Elective Courses

Industry Recognized Credentials Offered:

Allen Bradley Automation PLC (6)

Occupational Safety and Health Administration (OSHA) 10-Hour Training (1)

WHS CAREER ACADEMIES

Freshman Academy	Full year	1.0 credit
Required for all Freshmen: Pass/Fail		
The purpose of this course is to help students with the transition from middle to high school, and plan a successful high school experience that is productive and achievable. Through this class students will learn graduation requirements, the importance of grade point average (GPA), and develop a graduation plan. Another aspect of the academy course is career planning. Students will explore career pathways for workforce, post-secondary education, or enlistment in the military. As part of the graduation plan students will set short and long-term goals, and develop an understanding of how choices and actions effect career choices.		
Sophomore Academy	Full year	1.0 credit
Required for all Sophomores: Pass/Fail		

The purpose of this course is to prepare students for life beyond high school, both professionally and personally. Students will focus on researching multiple career options, resume building, interviewing skills, and other real-world applications that will benefit them in the future. Students will also learn to be conscientious citizens in our society by exploring digital citizenship, financial literacy, learning for justice, as well as character building and cultural awareness.

Junior Journeys	Semester	0.5 credit
Required for all Juniors planning to attend college: Pass/Fail		
Students will gain an understanding of service learning and college vocabulary. Students will focus on goal setting, critical thinking, exploring careers and majors, and self-analysis and evaluation. Students will register for, prepare for, and take the ACT.		

College Foundation	Full year	1.0 credit
Prerequisite: Journeys		
Required for WHS seniors who plan to attend college after graduation: Pass/Fail		
In the first semester students will focus on college vocabulary, goal setting, critical thinking, exploring careers and majors, and self-analysis and evaluation. Students will register for, prepare for, and take the ACT, complete the FAFSA, and apply to the college(s) of their choice. Students will begin building a student portfolio containing a collection of college and career readiness documents. In the second semester students will continue to build an academic portfolio and prepare and submit college scholarship applications. Additional tasks such as budgeting for college, financial aid, study skills, stress management, and surviving the freshman year of college will all be addressed during the second semester.		

Career Design	Full Year	1.0 credit
Required for WHS seniors NOT in College Foundation: Pass/Fail		
In this course, students will develop effective learning strategies and skills to provide a strong foundation for successful lifelong learning. Throughout the course, students will research careers and occupations, review postsecondary options, develop interviewing skills and participate in internships. Additional topics will include principles and techniques of professionalism, financial literacy and digital citizenship.		