



**Ohio County
High School
Course Guide
2021-22**

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Books are purchased and teachers are hired based on the number of students registering for any particular class. Classes are assigned based on the number of students requesting a particular class. Based on these requests, or lack of requests, a class may be dropped from the curriculum and/or new classes added based on new teacher certification. This course guide is not meant to be an exhaustive listing, but a listing of current offerings based on current staffing and teacher certification. Please choose your classes wisely including all alternates.



Ohio County High School



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Dear Students and Parents,

As Principal of Ohio County High School, I feel it is imperative we continually attempt to offer a challenging curriculum and a variety of courses for our students. The demands of higher education, advances in technology, and an ever-changing job market summon the need for many new skills from our young people. This has been our focus as we constructed this course guide.

Ohio County High School strives to offer a number of exciting courses that focus on educational skills, while challenging each student's potential for growth. With the commitment of the OCHS faculty/staff and administration, combined with the support of parents/guardians, all that is left is the determination from our students to succeed in everything they set out to be involved with at Ohio County High School.

As students, you have the avenues to accomplish great things during your high school years. You have the encouragement and help of faculty/staff, administration, parents and community members. We have also attempted to supply the necessary facilities and courses to help reach your goals, but you must remember you alone must make the effort and remain focused on your goals and future endeavors.

We believe the number one priority for Ohio County High School should be concentrating on student learning and student achievement. With this in mind, we feel the courses offered in this guide supply the necessary direction for all of our students to have future success. We look forward to another exciting school year at Ohio County High School and hope our students focus on courses and areas of study that will allow them to accomplish their dreams and goals.

Go Eagles!

Robby Asberry
Principal
Ohio County High School

INSTRUCTIONS FOR COMPLETING THE REGISTRATION FORM

After reading the course registration guide, students should plan their program of study. All students must register for 7 credits of classes and 4 alternates.

It will be necessary to choose at least 4 alternates for registration. **NOTE: If it is not possible for you to be registered in the classes you have chosen as electives, you will be automatically enrolled in your chosen alternates. PLEASE CHOOSE WISELY. You will not be able to change into a class that was not in your requests.**

Registration for courses in English, Math, Science and Social Studies and career areas will require teacher recommendation.

Any core content failures will be addressed by the counseling office after final grades are posted. Re-scheduling of failures may cause your schedule to change. If this becomes necessary, a revised schedule will be available before school begins.

COURSE REQUEST SELECTION

Parents or guardians are asked to familiarize themselves as much as possible with the course offerings in the COURSE REGISTRATION GUIDE so that they can assist their child in choosing the appropriate courses to take. Every attempt will be made to fulfill student course requests; however, some requests cannot be fulfilled because two or more courses meet at the same time or a course has been dropped due to lack of sufficient enrollment requests.

Parents or guardians should help students choose carefully the courses they request because classes are scheduled based on the registration requests. The more accurate the student requests, the better master schedule can be built to allow students to get the classes they requested.

COURSE REQUEST CHANGES

An accurate registration process provides the foundation for a master schedule that best meets the needs of students. Students will have until the first day of classes to request changes in their class schedules. Students may not elect to change into a class that was not in their requests. No schedule changes should be necessary except in cases of conflict when school opens in August. Any necessary changes must be completed within the first four (4) days at the beginning of the school year.

No classes may be entered or dropped after that date without the approval of the teacher and the parent/guardian of the student and must be in the best interest of the student. If a student would like to drop a class and the teacher does not agree, there must be a meeting with the guidance counselor, teacher, parent, and student.

SCHEDULE CHANGES

A schedule built from carefully chosen student requests and alternates is **extremely accurate**. This eliminates the need for most schedule changes. The master schedule is built based upon all requests of all students. Often, schedule changes force the student to choose classes he/she may not want. It is our goal to produce schedules that best meet the needs of all students.

Graduation Requirements

Students shall complete an individual learning plan that incorporates emphasis on career development and shall be required to complete a minimum of twenty four (24) units.

GRADUATION REQUIREMENTS

Subjects	
English (4 credits as required by state bd of ed. English must be taken each year)	4 English 1,2,3,4
Math (4 credits as required by bd of ed. Math must be taken each year.)	4 Algebra 1, Algebra 2, Geometry and one other math* *If Algebra 1 is taken in 8 th grade, students will take 2 other math classes after Algebra 2 and Geometry.
Social Studies (3 credits as required by state bd of ed to include competencies from Economics, Government, World Civilization, Geography and U.S. History)	3 SS 1- World History, Geo, (Comparative) SS 2- Early American History & Govt., SS 3- Contemporary American History
Science (3 credits as required by state bd of ed to include a life science, physical science and earth/space science. Science must be taken each of the first 3 years)	3 Integrated Science, Biology, and Environmental Geology + Chemistry for college bound students
Health	½
Physical Education	½
Humanities (required by the state bd of ed as History and Appreciation of the Visual and Performing Arts)	1
World Language	College bound students: 2 (two credits of the same non-native language)
Electives	<u>8-12</u>
Total Credits	<u>24-28</u>

***Students must be college or career ready to graduate. (See pg 6-7)

*** Graduation Honors

Cum Laude With Honor

Pre College Curriculum + 3.5 or higher GPA + Met KY Benchmarks, 22 or higher ACT + 2 AP or Dual Credit Courses required

Magna Cum Laude With Great Honor

Pre College Curriculum + 3.8 or higher GPA + Met KY Benchmarks, 24 or higher ACT + 3 AP or Dual Credit Courses required

Summa Cum Laude With Highest Honor

Pre College Curriculum + 4.0 or higher GPA + Met KY Benchmarks, 26 or higher ACT + 4 AP or Dual Credit Courses required

*Pre College Curriculum: All graduation requirements plus Chemistry & 2 years of foreign language.

Graduation Requirements

In support of student development goals set out in [KRS 158.6451](#) and the Kentucky Academic Expectations, students shall complete an individual learning plan that focuses on career exploration and related postsecondary education and training needs and shall be required to complete a minimum of twenty four (24) units, including demonstrated performance-based competency in technology. All required courses shall include content contained in the [Kentucky Core Academic Standards](#), and electives shall address academic and career interest standards-based learning experiences, including four (4) credits in an academic or career interest based on the student's individual learning plan.

Students must meet additional requirements as established in [704 KAR 003:305](#), including a requirement to take at least one (1) language arts and one (1) mathematics class each year of high school in order to graduate. Students that do not meet the college readiness benchmarks for English and language arts and/or mathematics shall take a transitional course or intervention before exiting high school.

Students must meet college or career readiness standards as adopted by the Kentucky Board of Education and the Ohio County Board of Education in order to graduate. Principals will disseminate these readiness standards to students through the guidance program and inclusion in student handbooks and in the Individual Learning Plan (ILP).

Exceptions to this requirement shall be made for students with identified learning disabilities as determined in the IEP by the Admissions and Release committee. Other exceptions for extenuating circumstances may be made by the OCHS Administration. Eligible students may complete an approved Service Learning Project based upon good faith effort in meeting one of the credentialing benchmarks outlined above.

GOOD FAITH EFFORT

All students are expected to give a good faith effort on any and all tests required by the school, District or state. The school Principal will determine the requirements for a good faith effort and communicate those to the students at the beginning of the school year and include them in the student handbook.

DIPLOMA LEVELS

Students at Ohio County High School must complete a program of studies that offers the opportunity to earn the Standard Diploma. Graduation honors or distinctions can be added to the standard diploma.

The OCHS student handbooks and course guides shall include complete details concerning specific graduation and diploma requirements.

Transition Readiness

Student Expectations for Transition Readiness

High School Diploma

Earn a high school diploma by meeting/exceeding the Kentucky Minimum High School Graduation Requirements

AND

Meet Requirements of Academic or Career Readiness

Academic Readiness	Career Readiness	English Language Readiness (only required for English Learners)
<ul style="list-style-type: none"> ✓ Benchmarks, determined by Council on Postsecondary Education (CPE) on a college admissions exam or college placement examination; OR ✓ A grade of C or higher in each course on 6 hours of KDE-approved dual credit; OR ✓ A score of 3+ on exams in 2 Advanced Placement courses; OR ✓ A score of 5+ on 2 exams for International Baccalaureate courses; OR ✓ Benchmarks on 2 Cambridge Advanced International examinations; OR ✓ Completing a combination of academic readiness indicators listed above. <ul style="list-style-type: none"> • Demonstration of academic readiness shall include one quantitative reasoning or natural sciences and one written or oral communication, or visual and performing arts; or humanities; or social and behavioral sciences learning outcomes. 	<ul style="list-style-type: none"> ✓ Receiving an Industry Certification (<i>Approved by the Kentucky Workforce Innovation Board on an annual basis</i>); OR ✓ Scoring at or above the benchmark on the Career and Technical Education End-of-Program Assessment for articulated credit; OR ✓ A grade of C or higher in each course on 6 hours of KDE-approved Career and Technical Education dual credit; OR ✓ Completing a KDE/Labor Cabinet-approved apprenticeship; OR ✓ Completing a KDE-approved alternate process to verify exceptional work experience. 	<ul style="list-style-type: none"> ✓ Meeting exit criteria for English language proficiency assessment (Overall composite of a 4.5 on a Tier B/C) for any student who received English Language services during high school. <ul style="list-style-type: none"> • English Language Learners are included in academic and career readiness in addition to English Language Readiness.

Note: Students participating in the alternate assessment program and earning an alternate diploma will have criteria for Transition Readiness based on alternate assessment requirements and employability skills attainment.

Please contact the Office of Standards, Assessment and Accountability (OSAA) if there are any questions:

(502) 564-4394

dacinfo@education.ky.gov

HIGH SCHOOL CREDIT FOR MIDDLE SCHOOL COURSES

To differentiate the curriculum to meet the needs of all students, the District shall offer selected courses of study for which a middle school student may earn high school credit. A grade of B or above earned by students who choose to participate in these courses shall be transferred to the high school, be included in the calculation of a student's high school grade point average (GPA) and become part of the student's official high school transcript.

STUDENT GRADE LEVEL CLASSIFICATION

9th grade students must complete 5 credits by the end of their 9th grade year to be enrolled in the 10th grade.

10th grade students must complete a total of 11 credits by the end of their 10th grade year to be enrolled in the 11th grade.

11th grade students must complete a total of 17 credits by the end of their 11th grade year to be enrolled in the 12th grade.

COLLEGE BOUND STUDENTS

Certain specific demands are placed on the college bound student. Since many college admission policies are becoming more selective, the student must be certain that he or she qualifies in terms of course quality and quantity. The more competitive the college, the more extensive are the requirements. The Pre-College Curriculum requirements should be met. Most colleges require their applicants to have a college placement test. The **PSAT/NMSQT, ACT, or SAT** is required for application to the Governor's Scholars Program and for enrollment in college courses.

All Kentucky students should strive to meet their ACT benchmarks before high school graduation. This is an indicator of preparedness for college & success. ACT benchmarks are as follows: English-18, Math-19, Reading-20.

PSAT/NMSQT - Cost approx. \$20 - **Time to take the test is approximately 3 1/2 hours. The test is designed for 10th-11th grade.**

The test date for the PSAT/NMSQT will be in mid-October. This may be beneficial for any student interested in Governor Scholars and students enter the competition for scholarships from NMSC.

ACT - Cost \$50.50- Time to take the test is approximately 4 hours. The ACT will be given Saturdays in September, October, December, and February for the 2021-2022 school year. Students must register at www.actstudent.org. **All 11th grade students will be taking the ACT in March as part of the Kentucky assessment.**

SAT - Cost approx. \$50 - Time to take the test is approximately 4 ½ hours. See the guidance office for dates.

Successful Completion of AP Course Exams Translate to College Credit

* Exam Fee \$89. Reduced for those who qualify.

Course	AP Score	UL	UK	EKU	MSU (Murray)	WKU
Studio Art						
	3	Elective (3)	ART102 (3)	ART 100, 152, OR 153 (3)	ART 111 (3)	ART 130 (3)
	4 OR 5	ART 105 (3)	ART102 (3)	ART 100, 152, OR 153 (3)	ART 111 (3)	ART 130&140 (6)
Biology						
	3	BIOL 102 (3)	BIOL 102,103 (6)	BIO 100 (3)	BIOL 101,115 (7)	BIO 113 (3)
	4	BIOL 102 (3)	BIOL 103,148,152 (6)	BIO 111 (4)	BIOL 101,115 (7)	BIO 120,121 (4)
	5	BIOL 102 (3)	BIOL 103,148,152 (6)	BIO 111,112 (8)	BIOL 101,115,216 (11)	BIO 120-123 (8)
Calculus						
	3	MATH 180 (3)	MA 113 (4)	MAT 124 (4)	MAT 250 (5)	MATH 119 (4)
	4 OR 5	MATH 205 (4)	MA 113 (4)	MAT 124 (4)	MAT 250 (5)	MATH 136 (4)
Chemistry						
	3	CHEM 201 (3)	CHE 105,111 (5)	CHE 101,101L (4)	CHE 101 (4)	CHEM 116 OR 101 OR 105/106 (3)
	4	CHEM 201,202 (6)	CHE 105,111 (5)	CHE 111,111L (4)	CHE 105 (4)	CHEM 105-106 (4)
	5	CHEM 201,202 (6)	CHE 105,107,111 (8)	CHE 112,112L (4)	CHE 105 (4)	CHEM 120,121 OR 105-106 (5)
Environmental Science						
	3, 4 OR 5	BIOL 263 (3)	EES 110 (3)	GEO 110 (3)	BIOL 103 (3)	AG ,CHEM ,ENV SCI OR PH 280 (3)
Physics						
	3	PHYS 221-224 (8)	PHY 151,152 (6)	PHY 101 (3)	PHY 130,132 (6)	PHYS 101 (3)
	4	PHYS 221-224 (8)	PHY 151,152 (6)	PHY 131 (5)	PHY 130,132 (6)	PHYS 101 OR 201 (4)
	5	PHYS 221-224 (8)	PHY 151,152 (6)	PHY 131,132 (10)	PHY 130,132 (6)	PHYS 231/232 OR 201 (4)
AP Psychology						
	3, 4 OR 5	PSYC 201 (3)	PSY 100 (4)	PSY 200 (3)	PSY 180 (3)	PSY OR PSYS 100 (3)

Classes for College Credit

Dual Credit students receive high school and college credit with successful completion of courses below.

College Writing 1	OCTC ENG 101	\$200	Eng 18/Read 20 or GPA 3.25
College Writing 2	OCTC ENG 102	\$200	Writing 1 with C or higher
College Algebra	OCTC MAT 150	\$200	ACT Math 22 and GPA 3.0 or MAT126
Tech Alg & Trig	OCTC MAT 126	\$200	ACT Math 19 or GPA 3.0
Tech Alg & Trig with Lab	OCTC MAT 126S	\$200	ACT Math 16 or GPA 2.75
Biology	OCTC BIO 112/113	\$250	Eng 18/Read 20 or GPA 3.25
Spanish 3	WKU SPA 102	\$200	GPA 2.5
Spanish 4	WKU SPA 201	\$200	GPA 2.5
Vet Science	MSU AGR 182	\$200	GPA 3.0
Crop Science	MSU AGR 140	\$200	GPA 3.0
Advanced Animal Science	MSU AGR 100	\$200	GPA 3.0
Horticulture	MSU AGR 160	\$200	GPA 3.0
Early Childhood	OCTC IECE	\$200	ACT 16 or GPA 2.5
Cont. History	OCTC HIS 109	\$200	Eng 18/Read 20 or GPA 3.25
Music Appreciation	WKU MUS 120	\$200	GPA 2.5

*Courses at KY Tech may also qualify for dual credit. Students must have a 2.5 GPA or pass the TABE test. These courses may vary each year.

*Students also have the opportunity to take online courses through WKU or OCTC. Check with the guidance office or the college websites for information as they vary the course offerings each year.

*Tuition for college courses may be covered entirely by the KY dual credit scholarship or the OC Board of Education (as long as funding remains available). You must apply for the scholarship for the tuition to be covered. Students are responsible for books and any course fees. Check with your guidance counselor for more information. Students can withdraw within 5 days of class. After the 5 days, students must pay the cost of the tuition to drop the course.

CAREER BOUND STUDENTS

Students wanting to earn a career diploma must be working toward a Certificate from one of the areas listed below. Students must earn 3-4 credits from the courses listed and pass the qualifying exam to receive the certificate. College bound students are also encouraged to work toward a career certificate.

Program: Automotive Technology

Program Certificate: Automotive Maintenance and Light Repair Technician

CCR Certificate: ASE Student Certification-Maintenance and Light Repair

Required Courses: Auto Maintenance and Light Repair A, B, C, D

Program: Business Education

Program Certificate: Administrative Support

CCR Certificates: End of Program Administrative Support , Microsoft MOS

Required Courses: Digital Literacy, Business and Marketing Essentials, Personal Finance

Additional classes: Office Admin, Business Communications, Legal Office

Program Certificate: Management and Entrepreneurship

CCR Certificate: End of Program Management and Entrepreneurship

Required Courses: Digital Literacy, Business and Marketing Essentials, Intro to Management, Personal Finance

Additional classes: Business Education Internship

Program: Computerized Manufacturing and Machining Technology

Program Certificate: CNC Operator

CCR Certificate: National Institute for Metalworking Skills (NIMS)

Required Courses: Fundamentals of Machine Tools – A, Fundamentals of Machine Tools – B, Manual Programming, CAD/CAM/CNC

Program Certificate: Machinist Operator

CCR Certificate: National Institute for Metalworking Skills (NIMS)

Required Courses: Fundamentals of Machine Tools – A, Fundamentals of Machine Tools – B, Manual Programming, Applied Machining 1

Additional classes: Applied Machining 2, Blueprint Reading, Metrology

Program: Construction Carpentry

Program Certificate: Residential Carpenter Assistant

CCR Certificate: National Center for Construction Education and Research (NCCER)

Required Courses: Introduction to Construction Technology, Floor and Wall Framing, Ceiling and Roof Framing, Exterior and Interior Finishing

Program: Electrical Technology

Program Certificate: Industrial Electrician Assistant

CCR Certificate: NCCER

Required Courses: Electrical Construction1, Circuits 1, Electrical Motor Controls, Rotating Machinery

Program: Health Science

Program Certificate: Allied Health

CCR Certificates: NOCTI

Required Courses: Principles of Health Science, Medical Terminology/Emergency Procedures, Allied Health Core Skills, Body Structures

Additional class: Allied Health Internship

Program Certificate: Pre-Nursing

CCR Certificate: State Registered Nursing Assistant (SRNA)/Medicaid Nurse Aide (MNA)

Required Courses: Principles of Health Science, Medical Terminology/Emergency Procedures, Medicaid Nurse Aide/Allied Intern

Additional class: Body Structures or Anatomy (Science course)

Program: Information Technology

Program Certificate: Information Support and Services

CCR Certificate: End of Program IT

Required Courses: Computer Literacy, Computer Hardware and Software Maintenance, Help Desk Operations, Internet Technologies

Program Certificate: Web Development and Administration

CCR Certificate: End of Program Web Design

Required Courses: Computer Literacy, Web Page Development, Web Site Design and Production, Internet Technologies

Program: Welding Technology

Program Certificate: Welder-Entry Level

CCR Certificate: American Welding Society (AWS)

Required Courses: Shielded Metal Arc Welding (SMAW), Blueprint Reading, GMAW, Gas Tungsten Arc Welding

Additional classes: GMAW Groove, SMAW Groove

Program: Family and Consumer Science

Program Certificate: [Early Childhood Education](#)

CCR Certificates: End of Program, Pre-PAC, Commonwealth Child Care Cert. of Elig., Ky Early Child Care and Ed Orient. Cert., Ped Abusive Head Trauma

Required Courses: [Parenting/Early Lifespan](#), [Child Dev Services I \(2 credits\)](#)

Additional class to be a completer: [FACS Essentials](#), [Child Development Services II](#), [Relationships](#), [Early Childhood Co-Op](#)

Program Certificate: [Culinary and Food Services](#)

CCR Certificates: End of Program, Pre-PAC, or ServSafe Food Manager and ServSafe Food Handler

Required Courses: [FACS Essentials](#), [Foods](#), [Culinary I](#)

Additional class to be a completer: [Culinary II](#)

Program Certificate: [Consumer & Family Management](#)

CCR Certificates: End of Program or Pre-PAC

Required Courses: [FACS Essentials](#), [Foods](#), [Relationships/Middle Lifespan](#)

Additional class to be a completer: [Parenting/Early Lifespan](#)

Program: Agriculture

Program Certificate: [Animal Science](#)

CCR Certificates: End of Program, iCEV

Required Courses: [Intro To Ag](#), [Small Animal Tech](#), [Veterinary Science/Advanced Animal Science](#)

Additional class to be a completer: [Equine Science](#)

Program Certificate: [Horticulture & Plant Science Systems](#)

CCR Certificates: End of Program, iCEV

Required Courses: [Intro to Ag](#), [Intro to Greenhouse](#), [Landscaping/Turf Management or Greenhouse](#)

Additional class to be completer: [Crop Production](#)

Program: JROTC

CCR Certificate: [JROTC 3-Year Certificate of Training](#)

Required Courses: [Army JROTC Level 1](#), [Level 2](#), [Level 3](#)

Additional class to be completer: [Army JROTC 4](#)

Program: Aviation

CCR Certificate: CCR Certificate: [Federal Aviation Administration's Private Pilot written exam](#)

Required Courses: [Aviation 1](#), [Aviation 2](#), [Aviation 3](#)

Additional class to be completer: [Aviation Internship or Co-Op](#)

Eligibility Requirements of Student-Athletes as Outlined by the Kentucky High School Athletic Association

Bylaw 5. Minimum Academic Requirement

Sec. 1) Proper Grade Level Requirement for Students in All School Districts

On the first day of each school year, a student must be at his/her proper grade level. To be considered to be at the proper grade level, a student must have been enrolled during the previous grading period, and must be on schedule to graduate on the first day of school. For the verification of this provision, all course work, including summer and correspondence work, must be completed by the first day of the school year for the student body.

The following chart will be used to determine eligibility based on our district requirements for graduation:

Graduation Requirement	First Year of High School	Second Year of High School	Third Year of High School	Fourth Year of High School	Required to reinstate after complete year ineligible
24 credits	Promoted from 8 th grade	4.8 credits	10.8 credits	16.8 credits	6 credits

Sec. 2) One-time reinstatement of Students Failing to Meet Normal Progress Requirements

The eligibility of a student failing to meet the provisions to stay on grade level may be reinstated a maximum of one time. This reinstatement is possible by the student passing twenty-five (25) percent of the requirements of the district for graduation during the year he/she is ineligible. He/She, upon reinstatement, shall remain eligible as long as he/she passes twenty-five (25) percent of the requirements of the district for graduation during each subsequent year.

OCHS Courses

ENGLISH

Course Name	Course Number	Credit	9 th	10 th	11 th	12 th	Prerequisite or Admin Discretion	Description
English 1	101	1	X				None	Designed to improve reading, vocabulary, and writing skills to prepare the student for College or Career. Grammar and mechanics are included as well as speaking, listening, and technological skills.
English2	102	1		X			101	See above.
English 3	103	1			X		102	See above.
English 4	104	1				X	103	See above.
Accelerated English 1	111	1	X				8th Grade TR	Recommended for students with a strong background in the English language and will prepare students for English 2 - Accelerated. The class will encompass all aspects of the regular English I class with more rigorous coursework. This class is strongly recommended for any students pursuing post-secondary education at a college or university level.
Accelerated English 2	112	1		X			A or B In 111 or A in 101 With TR	A Pre-AP Curriculum designed to prepare students for participation in AP/College course work in the 11th and 12th grades. The class will encompass all aspects of the regular English 2 class with more rigorous coursework. This class is recommended for any students pursuing post-secondary education at a college or university level.
College English 101- Writing 1	113	1			X	X	ACT English 18, Reading 20 or GPA of 3.25	A College Course through OCTC which focuses on academic writing. This class provides instruction in drafting and revising essays; includes reading critically, thinking logically, responding to texts, addressing specific audiences, researching and documenting sources and a review of grammar, mechanics and usage. Three hours dual credit available; registration required for college credit. Must have English ACT score of 18, Reading score of 20, or a 3.25 GPA.
College English 102 – Writing 2	114	1				X	Must have passed English 101 with a C or higher.	A College Course through OCTC which focuses on argumentative writing. This class provides instruction in drafting and revising essays; includes reading critically, thinking logically, responding to texts, addressing specific audiences, researching and documenting sources and a review of grammar, mechanics and usage. Three hours dual credit available; registration required for college credit. Must have passed English 101 with a C or higher.
Strategic Reading for ACT Success	118		X	X	X	X		This course is designed to be an interactive way to master the reading skills commonly assessed on the ACT and most utilized in post-secondary education.

TR=Teacher Recommendation

MATH

Course Name	Course Number	Credit	9 th	10 th	11 th	12 th	Prerequisite or Admin Discretion	Description
Algebra 1	201	1	X				OCMS TR	Topics will include the real number system, number theory, algebraic expressions and sentences, linear and quadratic equations, inequalities, operations with polynomials, relations and functions, graphing equalities and inequalities, radical expressions, factoring polynomials and systems of equations.
Accelerated Algebra 1.5	220	1	X				OCMS TR	Topics will include the real number system, number theory, algebraic expressions and sentences, linear and quadratic equations, inequalities, operations with polynomials, relations and functions, graphing equalities and inequalities, radical expressions, factoring polynomials and systems of equations as well as simplifying and evaluating expressions, solving equations and inequalities, systems of equations and inequalities, graphing functions, geometric relationships, proportional reasoning, trigonometry, probability and statistics.
Algebra 2	202	1			X		Algebra 1, Geometry	Topics include: simplifying and evaluating expressions, solving equations and inequalities, systems of equations and inequalities, graphing functions, geometric relationships, proportional reasoning, trigonometry, probability and statistics. Problem solving and mathematical connections are emphasized throughout the course. Graphing calculators are used as problem solving tools.
Accelerated Algebra 2	222	1	X	X	X		OCMS TR, or 221	Emphasis will be placed on preparation for study of higher mathematics/abstract thinking skills, the function concept, and algebraic solution of problems in various content areas. Topics include: the complex number system and matrices, quadratic equations and inequalities, graphs, exponential and logarithmic functions, progressions and series, and the binomial theorem, introductory work in conic sections, probability and trigonometry.
Geometry	203	1		X	X		201	Topics include: points, lines, planes, plane figures, area and perimeter, congruence, similarity, ratio and proportion, volume and surface area of solids.
Accelerated Geometry	223	1		X	X		Accelerated Algebra 1 or 2 or TR	Topics include: points, lines, planes, plane figures, area and perimeter, congruence, similarity, ratio and proportion, volume and surface area of solids and trigonometry.
Technical Algebra	216	1				X	ACT Math score below 16	Designed for seniors to help with math skills needed after graduation. Topics that will be covered include: banking services, payroll, taxes, insurance, purchasing, mark-ups and mark-downs, interest, consumer credit and mortgages. This course will also cover topics that will help improve the students ACT & help the student become college and career ready in math. This course is designed for students that have not met Math benchmarks. Students scoring above 19 on Math ACT should not take this course.
Intermediate College Algebra -MAT 126 with Lab	215	1			X	X	ACT Math 16 or a GPA of 2.75	Designed for students that have 16-17 on the math section of the ACT. It is a developmental math course that prepares students for success in college algebra and to help prevent students from having to take a developmental course in college. The student will only receive high school credit for the course. No college credit will be given. The course will cover functions, linear and quadratic equations, polynomials, exponents and radicals, and applications. Three hours dual credit available; registration required for college credit. Must have a Math ACT score of 16 or a 2.75 GPA
Technical Algebra & Trig OCTC MAT 126	227	1			X	X	Algebra 1, Algebra 2, Geometry, ACT Math 19 or a GPA of 3.0	Designed for students that have 18-21 on the math section of the ACT; for technical students at OCTC but can also be used as a developmental course for college algebra. Examines algebra & trig: vectors, phasor algebra, variation, trigonometric functions, coordinate systems, system of linear equations, quadratic, rational, exponential and logarithmic equations. Three hours dual credit available; registration required for college credit. Must have a Math ACT score of 19 or a 3.0 GPA.

College Algebra OCTC MAT 150	224	1			X	X	Math ACT score of 22 and a GPA of 3.25.	Selected topics in Algebra and analytic geometry. Develops manipulative skills and concepts required for further study in mathematics. Includes linear, quadratic, polynomial, rational, exponential, logarithmic and piecewise functions, systems of equations and inequalities, and introduction to analytic geometry. Graphing calculators will be used. Three hours dual credit available; registration required for college credit. Must have a Math ACT score of 22 or a 3.25 GPA
Pre-Calculus	225	1			X	X	Accelerated Algebra 2 and Accelerated Geometry	Strongly recommended for students taking math and/or science in college. This course includes topics traditionally taught in trigonometry and analytic geometry in addition to other topics. The purchase of a TI-84 or TI-83 graphing calculator is recommended for this course. Students must pass the exit exam to enroll in AP Calculus.
AP Calculus	226	2				X	Pre-Calculus	This course is designed for students who have completed four courses in the pre-college math curriculum established by the College Board. The purchase of a TI-84 or TI-83 graphing calculator is recommended for this course. Successful completion of the AP exam will earn college credit.

TR=Teacher Recommendation

It is required that every student be enrolled in at least 1 math course per year during the 9th, 10th, 11th and 12th grade. You must take Algebra 1, Geometry, Algebra 2 and one other Math class.

(Students may need to take more than one math class a year to complete all higher level courses, depending on whether they received Algebra I credit in the 8th grade)

Standard progression: Algebra 1, Geometry, Algebra 2, and a senior level math class.

Accelerated progression: Acc Algebra 1.5, Acc Algebra 2, Acc Geometry, Pre-Calculus or Intermediate College Algebra, Calculus or College Algebra

Prerequisites are subject to administrative discretion.

SCIENCE

Course Name	Course Number	Credit	9 th	10 th	11 th	12 th	Prerequisite or Admin Discretion	Description
Integrated Science (Intro to Chemistry & Physics)	301	1	X				None	This physical science course introduces students to techniques and methods employed in both chemistry and physics.
Biology	302	1	X	X			301 (may be taken concurrently w/ OCMS TR)	This life science course is designed to give students a well-rounded background in key areas of biological sciences. Relevant application of these key areas is emphasized-includes lab.
Environmental Geology	303	1		X	X		301 and 302	This earth/space science course will focus on the formation and ongoing changes of the earth's system and the universe, energy in the earth's system, and geo-chemical cycles.
Chemistry	304	1		X	X	X	302 or enrolled	This course offers fundamental chemistry principles and concepts along with general laboratory practices.
Anatomy & Physiology	305	1			X	X	302	This course emphasizes instruction concerning the structure, function, and terminology of the major systems of the body. It is beneficial to students pursuing careers as lab technicians, physical therapists, nurses, radiology technicians, medical doctors, etc.
AP Biology	306	1			X	X	302 and 304 also recommend 305	This college level course is for students who desire to continue in the field of biological science. College level laboratory experiments are required and will be held after school. Successful completion of the AP exam will earn college credit.
AP Chemistry	307	1			X	X	302 and 304	This college level course is designed for students who plan continued, in-depth study of chemistry in college. After school labs are required. Successful completion of the AP exam will earn college credit.
AP Physics	309	1			X	X	Math -222, 223, and 225 or enrolled in 225	This course is designed to develop the student's ability to read, understand, and interpret physical information. Students will also use mathematical reasoning in a physical problem, to perform experiments and interpret results of observations. Successful completion of the AP exam will earn college credit.
AP Environmental Science	310	1		X	X	X	302 and 304 or enrolled in 304	The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Successful completion of the AP exam will earn college credit. This course fulfills the Environmental Science-Geology requirement.
OCTC 112/113 (Dual Credit) Introduction to Biology	313	1			X	X	ACT English 18, Reading 20 or GPA of 3.25	Basic study of structure, function and interactions of living organisms including cell theory, genetics, energetics, evolution and ecology. Three hours dual credit available through OCTC; registration required for college credit. Must have English ACT score of 18, Reading score of 20, or a 3.25 GPA.

One science class must be taken each of the first three years in high school. All students must have 3 science credits to graduate. These credits must be the following: ICP, Biology, Environmental Geology. Advanced students may take multiple classes each year. A recommended schedule is below.

9th grade- Integrated Science

10th grade- Biology (required) and Chemistry*

11th grade- Environmental Geology (required) and Chemistry*, Anatomy*, AP Environmental Science* and/or Bio 112/113*

12th grade- AP Biology*, Anatomy*, AP Chemistry*, AP Physics*

*These classes are electives and have prerequisites that must be met.

SOCIAL STUDIES

Course Name	Course Number	Credit	9 th	10 th	11 th	12 th	Prerequisite or Admin Discretion	Description
Social Studies 1	401	1	X					Integrates the study of world geography with world civilization, focusing on the development of cultures of western civilization. Helps students understand that the forces that shaped our world in the past are similar to those that shape the world we live in today, as well as the future. Included will be discussions of geographical and social “push-pull” factors and their effects on world history.
Social Studies 2	402			X			401	Examines American History (1450-1876) and the social, political, economic, intellectual, and cultural influences that shaped our nation.
Social Studies 3	403	1			X		402	A survey of United States History with emphasis on the 19 th -21 st centuries. Its major purpose is to relate present events with the past and to predict movements, trends, and cycles for the future, as well as to develop a sense of the common experiences that all Americans share.
US History (Dual Credit) HIS109	424	1			X	X	ACT English 18, Reading 20 or GPA of 3.25	HIS 109 is the history of the US since 1865. This course DOES fulfill the U.S. History requirement for graduation. Three hours dual credit available through OCTC; registration required for college credit. Must have English ACT score of 18, Reading score of 20, or 3.25 GPA.
AP [®] Psychology	407	1		X	X	X	None	This college-level course is the study of behavior and mental processes of human beings and other animals. Included is a consideration of the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Students also learn about the ethics and research methods psychologists use in their science and practice. There are no prerequisite courses required or ACT benchmarks required, just a strong desire and work ethic to achieve mastery. Successful completion of the AP[®] Exam will earn college credit.
Psychology	408	1			X	X	None	Psychology is an introductory survey course designed to explore the scientific study of behavior and mental processes of human beings and other animals. The course will emphasize understanding, and development of behavior, personality development, study of perception and sensation, learning theories, and adjustment of one’s social environment.
Accelerated Social Studies 1	411	1	X				Recommendation from OCMS	Designed to challenge students and prepare them to take Advanced Placement Social Studies courses. Integrates the study of world geography with world civilization, focusing on the development of cultures of western civilization. Students will be challenged to improve their critical thinking and problem solving skills, as they will engage in group projects, discussions, document analysis, historical research, and essay writing.
Accelerated Social Studies 2	412			X			401 or 411	Designed to challenge students and prepare them for Social Studies courses-examine American History (1450-1876) and the social, political, economic, intellectual, and cultural influences that shaped our nation.
Criminal Justice	420	1		X	X	X	None	This course is designed to introduce students to the various careers in all the major areas of the Law Enforcement and Criminal Justice Fields. In addition to this, the students will be provided with the information to develop tools necessary to work and succeed in the Criminal Justice community. The class will be comprised of in-depth group discussion, guest speakers, and field trips, thought provoking individual & group assignments and detailed lectures.

HEALTH/PHYSICAL EDUCATION

Course Name	Course Number	Credit	9 th	10 th	11 th	12 th	Prerequisite or Admin Discretion	Description
Health	501	½	X				None	Health is a required course for all students. Units of study will include wellness, nutrition and food choices, mental health, food related diseases, goal setting, decision making, time management, stress management, conflict resolution/anti-violence, body systems and structure, reproduction and development, first aid, emergencies, safety, drug and alcohol prevention.
Physical Education	502	½	X				None	Consists of exercise, basketball, soccer, softball, track & field, tennis, volleyball, physical fitness tests, jump rope, and relay as various activities. This class emphasizes learning skills that build confidence and the ability to get along with your peers in competition, and with the objective of promoting a desire to continue participation in physical fitness for years to come. <u>All students taking PE will be expected to dress and participate 100% of class time. This is a required course for graduation.</u>
Team Sports & Fitness / Individual Sports & Fitness	506	1		X	X	X	None	Team Sports- Emphasis will be on developing skills as well as team strategies, teamwork and overall knowledge of the games. Cardiovascular conditioning will be included. Units covered will include: Volleyball, Basketball, Soccer, Flag Football, Ultimate Frisbee, Kickball, Whiffleball, Flickerball, Softball, and Track/field. Individual Sports- Emphasis on developing the skills and strategies of several lifetime sports. Students will participate in individual sports and fitness activities. Cardiovascular conditioning will be included. Units covered will include: Badminton, Tennis, Horseshoes, Whiffleball, golf, Cornhole, Table Tennis, Track/field and Circuit Training/Agility.

WORLD LANGUAGES

Course Name	Course Number	Credit	9 th	10 th	11 th	12 th	Prerequisite or Admin Discretion	Description
Spanish 1	611	1	X	X	X	X	None	You will begin to understand simple spoken Spanish, to make yourself understood and to learn about the customs and traditions of Spanish-speaking people. You will learn Spanish by listening, reading, writing and speaking.
Spanish 2	612	1		X	X	X	611	You will develop your knowledge of Hispanic culture and Spanish by using complete sentences, creating and responding to questions and enriching your vocabulary.
Spanish 3 WKU SPA 102	613	1			X	X	622	You will expand your knowledge of Hispanic culture and Spanish. You will be able to communicate and read more easily. Dual credit 3 hours college credit available (SPA 102); WKU Registration and payment of tuition required.
Spanish 4 WKU SPA 201	614	1				X	613	You will continue to expand and refine your language skills and cultural knowledge. Dual credit 3 hours college credit available (SPA 201); WKU Registration and payment of tuition required.

ART EDUCATION

Course Name	Course Number	Credit	9 th	10 th	11 th	12 th	Prerequisite or Admin Discretion	Description
Visual Art 1	641	1	X	X	X	X	None	Visual Art 1 is a prerequisite for Drawing and Painting and it is highly recommended that it be taken before Photography, Ceramics, and Introduction to 3D. It provides instruction in the basic art areas with emphasis on basic drawing, painting, ceramics, composition and the elements and principles of 2-D and 3-D design.
Drawing	642	1		X	X	X	641	This course provides instruction in 2-D design, emphasizing graphite, charcoal, color pencil, and pastel. A progressive study of art history and aesthetics will accompany study projects. Projects will emphasize drawing techniques in a variety of media.
Painting	643	1		X	X	X	641 and teacher permission	This course provides instruction in 2-D design emphasizing tempera, watercolor, acrylics, and oil. A progressive study of art history and aesthetics will accompany studio projects. Projects will emphasize techniques in painting in a variety of media along with a study of artists throughout history.
Ceramics 1	644	1		X	X	X	641 preferred	Ceramics 1 is an introduction to 3D design focusing on clay processes. Students engage in a variety of learning experiences that encompass art criticism, aesthetics, and production. Students create works of art in clay utilizing various hand building techniques as well as glaze processes. This class is a prerequisite for ceramics 2 and AP Art for those planning to do a 3D portfolio. (This class is assessed a fee.)
Photography	645	1		X	X	X	641 preferred	Provides students with basic design skills, knowledge of the camera and photo developing equipment, and techniques needed to photograph a variety of subjects and develop their own black and white prints. Students expand their basic skills and knowledge by experimenting with different techniques of developing prints and mounting. Other 2-dimensional processes will also be explored. This class will culminate with a student-choice "visual thesis" in which students will create a theme or story line with photographs. Students are required to provide their own 35mm camera for this class. (This class is assessed a fee.)
AP Studio Art	647	1				X	641	Focuses on the three main aspects of the A.P. art portfolio: Quality, Concentration, and Breadth. Another important aspect to the class is learning to utilize the elements and principles effectively in creating individual artworks for each of their individual portfolios. Students research all historical art periods and artists. Students will expand upon their design/composition, technique, and problem-solving skills developed from prior art classes, however, it is not mandatory that students have a previous art class if the talent is evident. Successful completion of AP exam will earn college credit.
Ceramics 2	648	1			X	X	644 and teacher permission	Ceramics 2 is a continuation of Ceramics 1. Students in Ceramics 2 engage in sequential learning experiences that encompass art criticism, aesthetics, and production. Students continue to create works of art in clay utilizing the processes of hand building, molds, wheel throwing, slip and glaze techniques, and the firing processes. Students will be expected to develop a strong body of work while focusing on the principles of design, problem solving, and craftsmanship. Ceramics 1 is a prerequisite for this class but may be taken in conjunction with Ceramics 2 as a senior if space permits. (This class is assessed a fee.)
Ceramics 3	650	1				X	648 and teacher permission	Ceramics 3 is a continuation of Ceramics 2. Students in Ceramics 3 will be expected to develop a strong body of work consisting of a minimum 16 pieces, while focusing on the principles of design, problem solving, and craftsmanship. This class is for the serious student as you will be expected to complete a large volume of high quality work that reflects artistic vision and voice. Ceramics 2 is a prerequisite. (This class is assessed a fee.)
Visual Art 2--Intro to 3D / 2D	649	1		X	X	X	641 preferred	Introduction to 3D Art focuses on 3D design as used in sculpture, relief, and jewelry. Students create works of art out of paper, metal, wire, plaster, found objects, and many other unusual mediums. 2 D will involve drawing, painting and photography. (This class is assessed a fee.)

MUSIC

Course Name	Course Number	Credit	9 th	10 th	11 th	12 th	Prerequisite or Admin Discretion	Description
Band	654	1	X	X	X	X	Incoming freshmen must have participated in a middle school band program. Upperclassmen must have been enrolled in a band class in grade levels 9, 10, or 11.	This course teaches music through group performance. It is an ensemble of woodwinds, brass, and percussion players organized to study, rehearse, and perform the following repertory: Marching Band (competitive and parade), Pep Band (football and basketball), Concert Band (winter/spring concerts, district concert performance assessment) as well as Solo & Ensemble literature (district solo & ensemble festival). Participation in all is expected and reflected in the grades for the course. Participation waivers will be handled on an individual basis.

HUMANITIES

Three years of state approved Humanities curriculum in arts related classes is equivalent to a credit in Humanities. A Humanities credit can also be accomplished by completing two semesters of humanities on the OdysseyWare program offered by the district for students otherwise unable to meet the requirement.

Course Name	Course Number	Credit	9 th	10 th	11 th	12 th	Prerequisite	Description
American Pop Culture	416	1				X	None	This elective course will address main facets of American popular culture during both the 20 th and 21 st centuries. Areas of analysis will include, but may not be limited to the following: Music, fashion, fads, entertainment, art, literature, sports, and dance.
Music Appreciation WKU MUS 120/ History & Appreciation Of Visual & Performing Arts	652	1		X	X	X	None	Students learn about the basic elements of music, such as sound, media, rhythm, melody, harmony, tonality, form, and texture, as well as the techniques used in relation to each element. Students will acquire the technical vocabulary to discuss music and they will learn to recognize the various forms and techniques while listening to music. HUMANITIES CURRICULUM WILL BE TAUGHT ALONG WITH THE MUS 120 CURRICULUM FOR A FULL HUMANITIES CREDIT. Dual credit 3 hours college credit available; WKU Registration and payment of tuition required.

OTHER

Course Name	Course Number	Credit	9 th	10 th	11 th	12 th	Prerequisite or Admin Discretion	Description
Community Internship	020	1				X	Approval through Guidance/Adm in	Students explore careers within the community based on their educational objectives. This is coordinated through the Guidance office. Students doing a paid internship must show a copy of a paycheck and must use a business that has workers comp insurance. Internships will be approved by a committee.
Practicum	021	1				X	Approval through Guidance/Adm in	Students explore working in the school setting. This may include answering phones, greeting visitors, filing, peer tutoring, assisting teachers, shelving books, assisting students, etc.
Discover College	026C	1			X	X	None	Students may enroll in WKU online courses or enroll in classes at OCTC. Tuition will be assessed. Students are responsible for books and fees.
Yearbook	993	1		X	X	X	None	Content for this course may vary. Possible topics include yearbook production, publication, format, layout, photographs, and financial management.

Prerequisites are subject to administrative discretion.

Ohio County High School Career & Technical Courses

AGRICULTURE

Animal Science Pathway

Course Name	Course Number	Credit	9 th	10 th	11 th	12 th	Prerequisite or Admin Discretion	Description
Introduction To Agricultural Science And Technology	801	1	X	X	X	X	None	Introduces students to the various segments of the agriculture industry. Basic animal science, plant and land science, and agricultural mechanics skills will be introduced along with selection and planning of an agricultural experience program and related record keeping. Leadership will be provided through FFA.
Equine Science	802	1		X	X	X	801	Develops knowledge and skills pertaining to breed identification and selection, anatomy, physiology, nutrition, genetics and reproductive management, training principles, grooming, health disease control and sanitation practices. Leadership development will be through FFA. Each student is expected to have an agricultural experience program or be placed for job experience.
Small Animal Tech	803	1		X	X	X	801	Describes the theories, principles, and science of small animals, including pets, nutrition, health, reproduction, training, etc.
Veterinary Science	825	1/2		X	X	X	801	Major topics include veterinary terminology, safety, sanitation, anatomy/physiology, clinical exams, hospital procedures, parasitology, posology, laboratory techniques, nutrition, disease, office management, and animal management Each student will be expected to have an agricultural experience program. This class is offered as dual credit through Murray State University for 11th & 12th graders. Registration and payment of tuition required for college credit. GPA of 3.0 required.
Advanced Animal Science	820	1/2		X	X	X	801	Topics include the importance and place of livestock in agriculture; types, market classes and grades of beef, sheep, poultry and swine; origin and characteristics of breeds; and the judging of beef, sheep and swine. This class is offered as 3 hours of dual credit for 11th-12th graders through Murray State University and is equivalent to AGR 100 (3 hrs). Course will be web-based with instruction in agriculture classroom. Registration and payment of tuition required for college credit. GPA of 3.0 required.

Horticulture and Plant Systems Pathway

Course Name	Course Number	Credit	9 th	10 th	11 th	12 th	Prerequisite	Description
Introduction To Agricultural Science And Technology	801	1	X	X	X	X	None	Introduces students to the various segments of the agriculture industry. Basic animal science, plant and land science, and agricultural mechanics skills will be introduced along with selection and planning of an agricultural experience program and related record keeping. Leadership will be provided through FFA.

Introduction to Greenhouse	804	1		X	X		801	Introductory level course to producing plants in a greenhouse environment and includes regulating the greenhouse environment, plant propagation including tissue culture, plant growth, structure and environment of plants for bed and container growing, and production cycles. Content may be enhanced by appropriate computer application.
Greenhouse Technology	809	1			X	X	801 and 804	This course introduces students to producing plants in a greenhouse environment and includes regulating the greenhouse environment, plant propagation including tissue culture, plant growth, structure and environment of plants for bed and container growing, and production cycles. Variety selection, fertilization, pest and disease control, and growth regulators will be stressed. Content may be enhanced by appropriate computer application.
Landscape & Turf Management	808	1		X	X	X	801 and 804	Description: A course that describes theories, principles and the science of Landscaping and Turf Management. Includes design and drawing, choosing plant materials, maintenance, marketing, etc.
Crop Science	823	1			X	X		A study of general plant science principles, including basic plant anatomy, physiology, and interactions with the surrounding environment. This class is offered as dual credit through Murray State University for 11th & 12th graders. Registration and payment of tuition required for college credit. GPA of 3.0 required.

**All Agriculture courses consist of related classroom instruction; laboratory experiences, and supervised agricultural experience programs. Each student enrolled must have a planned agricultural experience program that allows the student to put into practice skills learned in the classroom. Introduction to Agricultural Science and Technology is required as the first agriculture course.

FAMILY AND CONSUMER SCIENCES

Culinary Pathway

Course Name	Course Number	Credit	9 th	10 th	11 th	12 th	Prerequisite	Description
FACS Essentials	834	1	X	X	X	X	None	Emphasis is on work and family, adolescent development, selection and care of clothing, consumer spending, housing choices, challenges of child rearing, and guidance in establishing relationships.
Foods & Nutrition	835	1		X	X	X	834	In Foods, students will examine and solve aspects of the following practical problems: recognizing influences of food choices, planning / selecting and assembling meals while meeting nutritional needs, buying food, choosing and using a recipe, preparing foods, setting a table, serving foods, and preparing special occasion foods such as cake decorating. This is not a cook and eat everyday class. Lab privileges are earned with completion of academic work. (This class is assessed a fee.)
Culinary Arts 1	839	1			X	X	835 with B or higher	This advanced course allows students to increase competencies in a variety of food preparation techniques. Emphasis will be placed on food presentation, garnishing, menu planning and the skills necessary to prepare for a career in the culinary arts profession. Students will be required to sit for industry certification exams. A class fee is assessed.
Culinary Arts 2	841	1				X	839 with B or higher	This advanced course allows students to increase competencies in a variety of food preparation techniques. Emphasis will be placed on food presentation, garnishing, menu planning and the skills necessary to prepare for a career in the culinary arts profession. A class fee is assessed. Students will be required to sit for industry certification exams.

Consumer & Family Management Pathway

Course Name	Course Number	Credit	9 th	10 th	11 th	12 th	Prerequisite	Description
FACS Essentials	834	1	X	X	X	X	None	Emphasis is on work and family, adolescent development, selection and care of clothing, consumer spending, housing choices, challenges of child rearing, and establishing relationships.
Middle Lifespan Development/ Relationships	833/843	1		X	X	X	834	Addresses the practical problems related to understanding the areas and stages of lifespan development, review effects of heredity and environment on the life stages, meeting the needs of exceptional individuals, promoting optimum growth and development in the middle childhood, adolescent, and early / middle / late adulthood stages. Careers in human development and adult care services are explored.
Foods & Nutrition	835	1		X	X	X	834	In Foods, students will examine and solve aspects of the following practical problems: recognizing influences of food choices, planning / selecting and assembling meals while meeting nutritional needs, buying food, choosing and using a recipe, preparing foods, setting a table, serving foods, and preparing special occasion foods such as cake decorating. This is not a cook and eat everyday class. Lab privileges are earned with completion of academic work. (This class is assessed a fee.)
Parenting / Early Lifespan Development	832/842	1	X	X	X	X	None	Parenting aids students in developing parenting and caregiving skills. Major topics include becoming an informed parent, caring for a newborn, being an effective parent/caregiver and exploring career opportunities in caregiving. Emphasis is placed on the study of prenatal care and childbirth. The "Real Care Baby" computerized dolls are a required project for student participation or an alternate project will be done. Early Lifespan Development: Practical problems related to understanding the types and stages of human growth and development, recognizing effects of heredity and environment on human growth and development, meeting the needs of exceptional children, promoting optimum growth and development in the infancy, toddler, and preschool stages.

Early Childhood Education Pathway

Course Name	Course Number	Credit	9 th	10 th	11 th	12 th	Prerequisite	Description
Parenting / Early Lifespan Development	832/842	1	X	X	X	X	None	Parenting aids students in developing parenting and caregiving skills. Major topics include becoming an informed parent, caring for a newborn, being an effective parent/caregiver and exploring career opportunities in caregiving. Emphasis is placed on the study of prenatal care and childbirth. The "Real Care Baby" computerized dolls are a required project for student participation or an alternate project will be done. Early Lifespan Development: Practical problems related to understanding the types and stages of human growth and development, recognizing effects of heredity and environment on human growth and development, meeting the needs of exceptional children, promoting optimum growth and development in the infancy, toddler, and preschool stages.

Child Development Services 1	837	2			X	X	832/842	Provides training for entry-level childcare workers for child care centers, nurseries, preschools, kindergartens, elementary classrooms, and private homes. Includes an in-depth study of growth, and nutrition, health care activities for development and enrichment, discipline, and coping skills for everyday situations in life. Students will receive training and certification in CPR and First Aid. Resumes, cover letters and interview skills will be studied and practiced. This course provides classroom study and field-site experiences as students will work at the Family and Consumer Sciences Preschool, child care centers, preschools and/or elementary schools. This course is a good elective for students who may be interested in pursuing additional education in child care occupations and elementary education.
Child Development Services 2	838	2				X	837	Child Development Services II is a continuation of Child Development Services I and designed for students who wish to train for supervisory level positions or to further their education at the post-secondary level in the area of childcare and development. Students gain in-depth work experiences in child care establishments, preschools, and elementary schools. This class is offered as dual credit through OCTC. Registration and payment of tuition required for college credit. ACT score of 16 or 2.5 GPA required.
FACS Essentials	834	1	X	X			None	Emphasis is on work and family, adolescent development, selection and care of clothing, consumer spending, housing choices, challenges of child rearing, and guidance in establishing relationships.

**For all FCS classes, work experience will be explored and leadership development will be provided through Family, Career and Community Leaders of America.

Aviation

Course Name	Course Number	Credit	9 th	10 th	11 th	12 th	Prerequisite	Description
Introduction to Aviation	235	1	X	X	X	X	None	This course provides the foundation for all flight and aviation pathways. Students will gain a historical perspective starting from the earliest flying machines to a wide variety of modern aircraft and the integral role they play in making today's world work. Students will be using basic flight simulators to perform basic maneuvers, develop proper communication techniques, and general operations and layouts of airports. This course will also be about safety procedures for all forms of flight including planes and Unmanned Aircraft Systems (UAS).
Aviation II	236	1		X	X	X	235	Students will continue to take a closer look at aircraft they one day may operate. They will gain an in-depth understanding of the forces of flight—lift, weight, thrust, and drag—including how to make key calculations. They will then touch on aircraft design, looking at stability, aircraft controls, and maneuvering flight. Students will also explore other key aircraft systems, including electrical, pilot-static, and vacuum systems. Throughout, they will learn about the flight instruments associated with each system and how to identify and troubleshoot common problems. This unit also covers airplane flight manuals, the pilot's operating handbook, and required aircraft documents. Finally, students will learn about the factors that affect aircraft performance and how to determine critical operating data for aircraft.
Aviation III	237				X	X	235, 236	This course will include topics such as: pilot and aircraft qualifications, principles of flight, aerodynamics, spin awareness, flight maneuvers, pre- and post-flight procedures, airport operations, regulations, safety, weather, aircraft systems, weight and balance, human factors, cockpit management, emergency procedures, night operations, aeronautical decision-making, cross-country flight planning, airspace, and other topics that help prepare students for the Federal Aviation Administration's Private Pilot written exam.

JROTC

Course Name	Course Number	Credit	9 th	10 th	11 th	12 th	Prerequisite	Description
Army JROTC Level 1	550	1	X	X	X	X	None	Leadership Education Training 1 (LET 1) is a comprehensive program that introduces first year cadets to the JROTC program. LET 1 subjects include: Leadership, Physical Training, Drill and Ceremony, Citizenship and American History, Self-Evaluation, and Unlocking Your Potential. The classroom environment is very structured, and weekly uniform wear and military grooming standards are requirements. (1/2 credit may be given as PE)
Army JROTC Level 2	551	1		X	X	X	550	Leadership Education Training 2 (LET 2) builds on the skills developed during LET 1. LET 2 subjects include: Fitness and Wellness, First Aid, Map Reading and Geography, Foundations of the American Political System, and the U.S. Constitution. Students will apply leadership techniques learned during LET 1, and cadets may assist in the instruction of LET 1 students to further develop these skills. Weekly uniform wear and military grooming standards are requirements. (1/2 credit may be given as Health)
Army JROTC Level 3	552	1			X	X	551 & approval	Leadership Education Training 3 (LET 3) builds on the skills developed during LETs 1 and 2. LET 3 subjects include: Foundations for Success, Citizenship, and College and Career Readiness, as well as practical application of leadership skills learned in previous LET levels. Cadets may assist in the instruction of LET 1 and LET 2 students, both to further develop leadership skills and promote mastery of subject matter. LET 3 cadets may serve in key leadership positions and assist in planning class projects. Weekly uniform wear and military grooming standards are requirements. Senior Army Instructor approval is required to enroll in this course.
Army JROTC Level 4	553	1				X	552 & approval	Leadership Education Training 4 (LET 4) builds on the skills developed during LETs 1 through 3. LET 4 subjects include: Service to Nation and the Community, Financial Planning, and Principles of Leadership, with special focus on applying leadership skills learned in previous LET levels. Cadets will assist in the instruction of students in LETs 1 through 3, both to further develop leadership skills and promote mastery of subject matter. LET 4 cadets will serve in senior leadership positions within the organization and will be responsible for the planning and execution of class projects, to include coordinating with civilian organizations and conducting logistics planning. Weekly uniform wear and military grooming standards are requirements. Senior Army Instructor approval is required to enroll in this course.

Ohio County Area Technology Center Courses

STUDENTS MUST COMPLETE/PASS 4 DIFFERENT COURSES/CREDITS IN A PATHWAY TO BE A COMPLETER AND EARN THE CAREER PATHWAY CERTIFICATE:

KY TECH DUAL CREDIT INFO:

High school students who enroll in dual credit courses at Ohio County ATC may be able to transfer those courses to Owensboro Community and Technical College into a postsecondary certificate, diploma or associate degree program. See your ATC instructor or principal for more details. High school students do not have to pay any tuition or fees to attend Ohio County ATC classes.

AUTOMOTIVE TECHNOLOGY

Automotive Maintenance and Light Repair Technician Pathway

Course Name	Course Number	Credit	9 th	10 th	11 th	12 th	Prerequisite	Description
Auto Maintenance and Light Repair A	901 (470507)	1	X	X	X	X	None	These courses introduce the student to the principles, theories, and concepts of Automotive Technology, and include instruction in the maintenance and light repair of Engines, Brake Systems, Electrical/Electronic Systems, Suspension and Steering Systems, Automatic and Manual Transmission/Transaxles, and Engine Performance Systems. In all areas, appropriate theory, safety, and support instruction will be taught and required for performing each task, including proper care and cleaning of customers' vehicles. The instruction will also include identification and use of appropriate tools and testing/measurement equipment required to accomplish certain tasks. The student will also receive the necessary training to locate and use current reference and training materials from accepted industry publications and resources, and demonstrate the ability to write work orders. All Tasks for the Automotive Maintenance and Light Repair Sections A, B, C, and D are listed in the Automotive Maintenance and Light Repair Section A Task List.
Auto Maintenance and Light Repair B	902 (470509)	1	X	X	X	X	None	These courses introduce the student to the principles, theories, and concepts of Automotive Technology, and include instruction in the maintenance and light repair of Engines, Brake Systems, Electrical/Electronic Systems, Suspension and Steering Systems, Automatic and Manual Transmission/Transaxles, and Engine Performance Systems. In all areas, appropriate theory, safety, and support instruction will be taught and required for performing each task, including proper care and cleaning of customers' vehicles. The instruction will also include identification and use of appropriate tools and testing/measurement equipment required to accomplish certain tasks. The student will also receive the necessary training to locate and use current reference and training materials from accepted industry publications and resources, and demonstrate the ability to write work orders. All Tasks for the Automotive Maintenance and Light Repair Sections A, B, C, and D are listed in the Automotive Maintenance and Light Repair Section A Task List.

Auto Maintenance and Light Repair C	903 (470511)	1		X	X	X	None	These courses introduce the student to the principles, theories, and concepts of Automotive Technology, and include instruction in the maintenance and light repair of Engines, Brake Systems, Electrical/Electronic Systems, Suspension and Steering Systems, Automatic and Manual Transmission/Transaxles, and Engine Performance Systems. In all areas, appropriate theory, safety, and support instruction will be taught and required for performing each task, including proper care and cleaning of customers' vehicles. The instruction will also include identification and use of appropriate tools and testing/measurement equipment required to accomplish certain tasks. The student will also receive the necessary training to locate and use current reference and training materials from accepted industry publications and resources, and demonstrate the ability to write work orders. All Tasks for the Automotive Maintenance and Light Repair Sections A, B, C, and D are listed in the Automotive Maintenance and Light Repair Section A Task List.
Auto Maintenance and Light Repair D	904 (470513)	1		X	X	X	None	These courses introduce the student to the principles, theories, and concepts of Automotive Technology, and include instruction in the maintenance and light repair of Engines, Brake Systems, Electrical/Electronic Systems, Suspension and Steering Systems, Automatic and Manual Transmission/Transaxles, and Engine Performance Systems. In all areas, appropriate theory, safety, and support instruction will be taught and required for performing each task, including proper care and cleaning of customers' vehicles. The instruction will also include identification and use of appropriate tools and testing/measurement equipment required to accomplish certain tasks. The student will also receive the necessary training to locate and use current reference and training materials from accepted industry publications and resources, and demonstrate the ability to write work orders. All Tasks for the Automotive Maintenance and Light Repair Sections A, B, C, and D are listed in the Automotive Maintenance and Light Repair Section A Task List.
Co-Op (Auto)	909 (470501)	1-2				X	Permission of Instructor	Co-op provides supervised on-the-job work experience related to the student's educational objectives. Students who participate in the Cooperative Education program receive compensation for their work.

BUSINESS EDUCATION

Administrative Support Pathway

Course Name	Course Number	Credit	9th	10th	11^t_h	12th	Prerequisite	Description
Digital Literacy A	910 (060112)	1/2	X				None	Students will use a computer and application software including word processing, presentation, database, spreadsheets, internet, and email to prepare elementary documents and reports. The impact of computers on society and ethical issues are presented.
Digital Literacy B		1/2	X	X	X	X	Digital Literacy A	Students will use a computer and application software including word processing, presentation, database, spreadsheets, internet, and email to prepare elementary documents and reports. The impact of computers on society and ethical issues are presented.

Business and Marketing Essentials	914 (060111)	1	X	X	X	X	None	This course establishes basic foundations for further study in business courses and provides essential information for making financial and economic decisions. Students learn about the fundamentals of the American free enterprise system and world economies; application of sound money management for personal and family finances; credit management; consumer rights and responsibilities; forms of business ownership; risk and insurance; and the importance of international trade. Leadership development will be provided through FBLA.
Personal Finance (CTE Credit)	911 (060170)	1		X	X	X	None	This course is designed to provide students with the knowledge and skills to manage one's financial resources effectively for lifetime financial security. Topics include economics, money in the economy, budgeting, credit, consumer rights, investments and retirement planning. Leadership development will be provided through FBLA.
Introduction to Management (Management and Entrepreneurship Pathway)	918 (060411)	1			X	X	None	This course will expand student understanding of management. Emphasis on types of management, including customer relationship management, human resources management, knowledge management, information management, project management, quality management, risk management, and strategic management. Business law, communication skills, economics, operations, and professional development are also stressed throughout the course. Students will be presented with problem-solving situations for which they must apply academic and critical-thinking skills.
Business Education Internship	917 (060108)	1-2				X	Permission of Teacher	This course will provide supervised work experience for high school students. Students experiences consist of a combination of classroom instruction and field experiences.
Co-op (Bus. & Mkt.)	923 (060107)	1-2				X	Permission of Teacher.	Cooperative Education provides supervised on-the-job work experience related to the student's educational objectives. Students participating in the Cooperative Education program receive compensation for their work.

COMPUTERIZED MANUFACTURING AND MACHINING TECHNOLOGY

Machinist Operator Pathway

Course Name	Course Number	Credit	9 th	10 th	11 th	12 th	Prerequisite	Description
Fundamentals of Machine Tools A	955 (470913)	1	X	X	X	X	None	This course provides the basic principles needed for a solid foundation in machine tool technology. Areas and machines covered include shop safety, bench work, drill press, power saw, measurement, mills, and lathes
Fundamentals of Machine Tools B	956 (470914)	1		X	X	X	None	This course provides intermediate skill development in machine tool technology. The course builds on basic skills developed in Machine Tool A, especially in the calculation of safe cutting speed and feed rates for the drill press, power saw, mills, and lathes. Shop safety, bench work and precision measurement are also emphasized.
Applied Machining 1	959 (470911)	1	X	X	X	X	None	Consists of intermediate level skills using machining machines and surface grinders. It will include the selection of grinding wheels. Applications in milling, lathe, bench work, and utilizing gauge blocks and the sine bar are covered in this course. Surface grinding and abrasives are introduced and properties of metals are discussed.
Manual Programming	957 (470915)	1		X	X	X	None	This course introduces the student to CNC format and the Cartesian Coordinate System. It also introduces the student to CNC codes and programming, set-up and operation of CNC machine tools. The student will utilize process planning and manual programming for CNC equipment. The student will load a CNC program and set tool and work offsets.
Applied Machining 2	960 (470912)	1			X	X	955 or 956	Carries the student to higher levels in the operation of machine tools. Applications in milling, lathe, bench work, and utilizing gauge blocks and the sine bar are covered in this course. Surface grinding and abrasives are introduced, and properties of metals are discussed.
Blueprint Reading for Machinist	962 (470921)	1/2			X	X	955 or 956	Provides the student with a beginning and advanced series of lectures, demonstrations, and practice exercise in the study of prints. Safety will be emphasized as an integral part of this course.
Metrology	961 (470928)	1/2			X	X	955 or 956	Provides the basic principles in using precision measurement instruments and their application to inspection and quality control. Basic applied math, lines, multi-view drawings, symbols, various schematics and diagrams, dimensioning techniques, sectional views, auxiliary views, threads and fasteners, and sketching typical to all shop drawings are presented. Safety will be emphasized as an integral part of the course.
Co-op (Machine Tool)	963 (470929)	1-2				X	Permission of Instructor	Cooperative Education provides supervised on-the-job work experience related to the student's educational objectives. Students participating in the Cooperative Education program receive compensation for their work.

Computer Numerical Control (CNC) Operator Pathway

Course Name	Course Number	Credit	9 th	10 th	11 th	12 th	Prerequisite	Description
Fundamentals of Machine Tools A	955 (470913)	1	X	X	X	X	None	This course provides the basic principles needed for a solid foundation in machine tool technology. Areas and machines covered include shop safety, bench work, drill press, power saw, measurement, mills, and lathes
Fundamentals of Machine Tools B	956 (470914)	1		X	X	X	None	This course provides intermediate skill development in machine tool technology. The course builds on basic skills developed in Machine Tool A, especially in the calculation of safe cutting speed and feed rates for the drill press, power saw, mills, and lathes. Shop safety, bench work and precision measurement are also emphasized.
Manual Programming	957 (470915)	1		X	X	X	None	This course introduces the student to CNC format and the Cartesian Coordinate System. It also introduces the student to CNC codes and programming, set-up and operation of CNC machine tools. The student will utilize process planning and manual programming for CNC equipment. The student will load a CNC program and set tool and work offsets.
CAD/CAM/CNC	958 (470925)	1		X	X	X	None	This course introduces the student to CAD/CAM/CNC systems which includes CAM software. The student will utilize process planning, manual programming and CAD/CAM for CNC equipment. This student will load a CNC program and set tools and work offsets, and machine parts.
Co-op (Machine Tool)	963 (470929)	1-2				X	Permission of Instructor	Cooperative Education provides supervised on-the-job work experience related to the student's educational objectives. Students participating in the Cooperative Education program receive compensation for their work.

CONSTRUCTION CARPENTRY TECHNOLOGY

Residential Carpenter Assistant Pathway

Course Name	Course Number	Credit	9 th	10 th	11 th	12 th	Prerequisite	Description
Introduction to Construction Technology	924 (460201)	1	X	X	X	X	None	This course emphasizes the types, grades, sizes, and standards of building materials including the types of fasteners and their correct uses. Students will also learn to correctly utilize and maintain commonly used hand and power tools. Safety in the lab and on the job site is stressed.
Floor & Wall Framing	925 (460212)	1	X	X	X	X	None	The student will practice floor framing, layout, and construction of floor frames. Cutting and installing floor and wall framing members according to plans and specifications will also be practiced.
Ceiling & Roof Framing	928 (460213)	1		X	X	X	924	This course covers roof types and combinations of roof types used in the construction industry. The emphasis of this course is on layout, cutting and installing ceiling joists, rafters, roof decking, and roof coverings.
Exterior & Interior Finishing	929 (460219)	1		X	X	X	924	This course presents basic concepts of building trim, gypsum wallboard, paneling, base, ceiling and wall molding with instruction on acoustical ceilings and insulation, wood floors, tile, inlaid adhesive and tools of the flooring trade. This course will continue to refine the techniques and skills taught

								in the previous carpentry courses. In this course, cost control, speed, and precision are emphasized. In addition, students will perfect the skills associated with the exterior finishing of a house.
Cabinet Construction & Installation	927 (460209)	1		X	X	X	924 or 925	Students will layout and plan the construction of base and wall cabinets. They will prepare wood surfaces for finishing as well as install cabinets and special units.
Site Layout & Foundations	926 (460214)	1		X	X	X	924, 925, 928, 929	Students will prepare materials; calculate the cost for a building site, and layout a site with a transit, locating property lines and corners. Students calculate the amount of concrete needed for footing and foundation walls and construct different types of foundations and forms.
Co-op (Carpentry)	931 (460242)	1-2				X	Permission of Instructor	Co-op provides supervised on-the-job work experience related to the student's educational objectives. Students participating in the Co-op Education program receive compensation for their work.

ELECTRICAL TECHNOLOGY

Industrial Electrician Assistant Pathway

Course Name	Course Number	Credit	9 th	10 th	11 th	12 th	Prerequisite	Description
Electrical Construction 1	938 (460312)	1	X	X	X	X	None	Involves the study of materials and procedures used in construction wiring.
Circuits 1	933 (460316)	1	X	X	X	X		Introduction to basic theory of DC and AC circuits, including circuit analysis techniques, introductory magnetism, and transformer principles.
Electrical Motor Controls	935 (460331)	1		X	X	X		This course addresses the diversity of control devices and applications used in industry today. Safety and electrical lockouts are also included.
Rotating Machinery Electrical Motor Controls	939 (460325)	1		X	X	X		This course focuses on the construction, operation and maintenance of DC motors and generators and AC motors and alternators. This course addresses the diversity of control devices and applications used in industry today. Safety and electrical lockouts are also included.
Circuits 2	937 (460319)	1			X	X	938, 933, 935, 939	Complex alternating current and direct current circuits. Emphasis is on impedance, reactance, power and electrical energy, electrical measurement instruments, and circuit analysis.
Electrical Internship	936 (460348)	1				X	Permission of Instructor	Internship provides supervised work experience related to the student's educational objectives. Students participating in the Internship do not receive compensation.
Co-op (Electrical)	940 (460345)	1-2				X	Permission of Instructor	Co-op provides supervised on-the-job work experience related to the student's educational objectives. Students participating in the Co-op Education program receive compensation for their work.

HEALTH SCIENCES

Allied Health Pathway

Course Name	Course Number	Credit	9 th	10 th	11 ^t h	12 th	Prerequisite	Description
Principles of Health Science	941 (170111)	1	X	X	X	X	None	Principles of Health Science is an orientation and foundation for occupations and functions in any health care profession. The course includes broad healthcare core standards that specify the knowledge and skills needed by the vast majority of healthcare workers. The course focuses on exploring health career options, history of health care, ethical and legal responsibilities, leadership development, safety concepts, health care systems and processes and basic health care industry skills. This introductory course may be a prerequisite for additional courses in the Health Science program.
Medical Terminology/Emergency Procedures	942 (170131) (170141)	1	X	X	X	X	None	A course designed to develop a working knowledge of language in all health science major areas. Students acquire word-building skills by learning prefixes, suffixes, roots and abbreviations. Students will learn correct pronunciation, spelling and application rules. By relating terms to body systems, students identify proper use of words in a medical environment. Knowledge of medical terminology enhances the student's ability to successfully secure employment or pursue advanced education in health care. This course will focus on potential emergency situations. It is designed to promote an understanding of standard precautions necessary for personal and professional health maintenance and infection control. Upon successful completion of the course, the student will demonstrate the necessary skills in First Aid and Cardiopulmonary Resuscitation (CPR) and will be given the opportunity to take the completion examination as outlined by the sponsoring agency.
Allied Health Core Skills	943 (170501)	1			X	X	941, 942	Allied Health Core Skills is designed to provide knowledge, concepts and psychomotor skills necessary for gainful employment as an entry -level health care worker. Assisting students in selecting a career major, classroom instruction and educational objectives are combined with learning experiences, observations, and a work-based learning Opportunity such as internship, shadowing, or clinical rotation.

Body Structures & Functions OR Anatomy & Physiology (Science Course)	945 (170167) 305 (302631)	1 1			X X	X X	941, 942 302	Body Structures and Functions is designed to provide knowledge of the structure and function of the human body with an emphasis on normalcy. The interactions of all body systems in maintaining homeostasis will promote an understanding of the basic human needs necessary for health maintenance. Academic knowledge from life science content as it relates to the human body will be included. Laboratory activities should be a part of the course when appropriate.
Medicaid Nurse Aide (Pre-Nursing Pathway)	1003 (170631)	1			X	X	Teacher Approval	This course is an instructional program that prepares students for a career in nursing under the training and supervision of an approved registered nurse.
Pharmacy Technician Pathway		1			X	X	Teacher Approval	This course is an instructional program that prepares students for a career in a pharmacy. This program is an independent study.
Phlebotomy Technician Pathway		1			X	X	Teacher Approval	This course is an instructional program that prepares students for a career in Phlebotomy. This program can be taught as an independent study or a lecture style class.
Allied Health Internship	944 (170550)	1			X	X	Teacher approval	This is a non-paid independent clinical internship of a health career of your choice: areas such as physical therapy, x-ray, nursing, veterinary clinics and other health career areas is an excellent opportunity to explore a career. The student will gain valuable work experiences and the appropriate observation hours needed for admission to some of the health career programs. There is limited classroom experience; to be successful a student must be self-motivated.

Emergency Medical Technician Pathway

Course Name	Course Number	Credit	9th	10th	11th	12th	Prerequisite	Description
Principles of Health Science	941 (170111)	1	X	X	X	X	None	Principles of Health Science is an orientation and foundation for occupations and functions in any health care profession. The course includes broad healthcare core standards that specify the knowledge and skills needed by the vast majority of healthcare workers. The course focuses on exploring health career options, history of health care, ethical and legal responsibilities, leadership development, safety concepts, health care systems and processes and basic health care industry skills. This introductory course may be a prerequisite for additional courses in the Health Science program.

Medical Terminology/ Emergency Procedures	942 (170131) (170141)	1	X	X	X	X	None	A course designed to develop a working knowledge of language in all health science major areas. Students acquire word-building skills by learning prefixes, suffixes, roots and abbreviations. Students will learn correct pronunciation, spelling and application rules. By relating terms to body systems, students identify proper use of words in a medical environment. Knowledge of medical terminology enhances the student's ability to successfully secure employment or pursue advanced education in health care. This course will focus on potential emergency situations. It is designed to promote an understanding of standard precautions necessary for personal and professional health maintenance and infection control. Upon successful completion of the course, the student will demonstrate the necessary skills in First Aid and Cardiopulmonary Resuscitation (CPR) and will be given the opportunity to take the completion examination as outlined by the sponsoring agency.
Emergency Medical Technician	1001 (461022)	1			X	X	941, 942, Approval of Instructor, 2.5 or above GPA, 17+ ACT	This basic Emergency Medical Technician course covers all knowledge aspects of trauma care as outlined by national standards, created by federal guidelines, considered to be the responsibilities of ambulance operations. Training involves typical anatomy; patient assessment; care for respiratory and cardiac emergencies; control of bleeding; application of dressing; treatment for traumatic shock; care for fractures, sprains, strains; emergency childbirth, burns ; environmental emergencies; vehicle rescue; transportation of patients and operations of ambulance systems.
EMS Training	1000 (461023)	1			X	X	941, 942, Approval of Instructor, 2.5 or above GPA, 17+ ACT	Public Service Program that provides instruction in Emergency Medicine.

INFORMATION TECHNOLOGY

Information Support and Services Pathway

Course Name	Course Number	Credit	9 th	10 th	11 th	12 th	Prerequisite	Description
Computer Literacy A	953 (110110)	.5	X				None	Introduces students to the main components of computer literacy including Computer Fundamentals, Key Applications and Living Online. Provides an introduction to the computer and the convergence of technology as used in today's global environment..
Computer Literacy B		.5	X	X	X	X	Computer Literacy A	Introduces topics including computer hardware and software, file management, the Internet, e-mail, the social web, green computing, security and computer ethics. Presents basic use of application, programming, systems and utility software. Basic keyboarding skills are strongly recommended.

Computer Hardware and Software Maintenance	949 (110101)	1	X	X	X	X	None	Focuses on the design of computing systems, including instruction in the principles of computer hardware and software components, algorithms data basis, telecommunications, etc. Includes the knowledge to identify and explain PC components, setup a basic PC workstation, conduct basic software installation, identify compatibility issues and recognize/prevent basic security risks and also gives knowledge in the areas of Green IT and preventative maintenance of computers.
Help Desk Operations	947 (110102)	1		X	X	X	None	Introduces a variety of tools and techniques to provide user support in help desk operations. Explores help desk concepts, customer service skills, troubleshooting problems, writing for end users, help desk operations and software, needs analysis, facilities management, and other topics related to end user support.
Internet Technologies	948T (110917)	1		X	X	X	953, 949, 947	Provides students with a study of traditional and emerging Internet technologies. Covers topics including Internet fundamentals, Internet applications, Internet delivery systems, and Internet client/server computing. Provides a hands on experience and some programming in an Internet environment.
Info Tech Internship	952 (110919)	1				X	X	Approval of Instructor The Internship provides supervised on-the-job work experience related to the student's educational objectives. Students participating in the internship do not receive compensation.

Web Development and Administration Pathway

Course Name	Course Number	Credit	9 th	10 th	11 th	12 th	Prerequisite	Description
Computer Literacy A	953 (110110)	1/2	X				None	Introduces students to the main components of computer literacy including Computer Fundamentals, Key Applications and Living Online. Provides an introduction to the computer and the convergence of technology as used in today's global environment.
Computer Literacy B		1/2	X	X	X	X	Computer Literacy A	Introduces topics including computer hardware and software, file management, the Internet, e-mail, the social web, green computing, security and computer ethics. Presents basic use of application, programming, systems and utility software. Basic keyboarding skills are strongly recommended.
Web Page Development	946 (110801)	1	X	X	X	X	None	Web Page Design using HTML will be introduced. Creating web documents using a simple text editor will be the main focus. How to use a simple web editor will also be covered. Features such as layout, tables, images, forms, frames and the incorporation of sound and video will be explored. Developing site specifications and methods to increase the appeal and effectiveness of web sites are included. How to prepare web documents appropriate for use in business and professional web sites will be covered. Also, this course introduces CSS and emphasizes W3C web design and accessibility standards.
Website Design & Production	950 (110804)	1		X	X	X	None	This course gives the student an experience with advanced topics in planning and implementing a professional web site. Emerging technologies will be explored in creating interactive web pages that incorporate cascading style sheets, DHTML, JavaScript and multimedia and graphics. Designing for a cross-browser

								web site and different monitor resolutions should be covered. Introduces web site production processes with emphasis on design involving layout, navigation, interactivity and using web production software.
Internet Technologies	948T (110917)	1		X	X	X	953, 946, 950	Provides students with a study of traditional and emerging Internet technologies. Covers topics including Internet fundamentals, Internet applications, Internet delivery systems, and Internet client/server computing. Provides a hands on experience and some programming in an Internet environment.
Info Tech Internship	952 (110919)	1			X	X	Approval of Instructor	The Internship provides supervised on-the-job work experience related to the student's educational objectives. Students participating in the internship do not receive compensation.

WELDING TECHNOLOGY

Welder – Entry Level Pathway

Course Name	Course Number	Credit	9 th	10 th	11 th	12 th	Prerequisite	Description
Shield Metal Arc Welding	964 (480521)	1	X	X	X	X	None	Teaches students the identification, inspection, and maintenance of SMAW electrodes; principles of SMAW; the effects of variables on the SMAW process to weld plate and pipe; and metallurgy.
Blueprint Reading for Welding	968 (480505)	1			X	X	None	Provides a study of occupationally specific prints for welders. Advanced study of multi-view drawings, assembly drawings, datum dimensions, numerical control drawings, sheet metal prints, castings and forgings, instrumentation and control charts and diagrams, working drawings, geometric dimensioning and tolerancing and use of reference materials and books are included. Occupational specifics including welding drawings, symbols, joint types, grooves, pipe welding symbols, testing symbols, and specification interpretations are stressed.
Gas Metal Arc Welding	966 (480522)	1	X	X	X	X	None	Identification, inspection, and maintenance of GMAW machines; identification, selection and storage of GMAW electrodes; principles of GMAW; and the effects of variables on the GMAW process. Theory and applications of related processes such as FCAW and SAW and metallurgy are also included.
Gas Tungsten Arc Welding	971 (480525)	1		X	X	X	964,966,968	Identification, inspection, and maintenance of GTAW machines; identification, selection and storage of GTAW electrodes; principles of GTAW; the effects of variables on the GTAW process; and metallurgy. This course also teaches the theory and application of Plasma Arc Cutting.
SMAW Groove Welds with Backing Lab	969 (480528)	1			X	X	964, 966, 968	Provides experiences in which students acquire the manipulative skills to do groove welds in all positions with backing.
Welding Internship	967 (480544)	1				X	Permission of instructor	The internship provides supervised work experience related to the students' education objectives. Students participating in the practicum do not receive compensation.
Co-op (Welding)	972 (480541)	1-2				X	Permission of Instructor	Cooperative Education provides supervised on-the-job work experience related to the students' educational objectives. Students participating in the Cooperative Education program receive compensation for their work.

Non-Discriminatory Policy Statement

Students, their parents and employees of the Ohio County Board of Education, are hereby notified this school district does not discriminate on the basis of race, color, national origin, age, religion, marital status, gender, or disability in employment, educational programs, vocational programs or activities as set forth in Title IX, Title VI, Section 504 and ADA. Any person having inquiries concerning the Ohio County Board of Education's compliance with Title IX, Title VI, Section 504, and ADA are directed to contact Christy Nofsinger, Ohio County Board of Education, P. O. Box 70, 315 East Union Street, Hartford, KY 42347, 270-298-3249, who has been designated to coordinate the district's efforts to comply with Title IX, Title VI, and Section 504.