North Union High School

Academic Planning Guide
2023-2024

Dear Students and Parents,

The NUHS Academic Planning guide has been prepared to help you plan your high school program and choose courses for the 2023-24 school year. It contains essential information about graduation requirements, career pathways, course descriptions, and educational options apart from the traditional high school.

We wish to stress that rigorous coursework has a proven positive impact on the academic and career preparation of all students, regardless of race, gender, or socioeconomic status. Therefore, the North Union Local School District offers a diverse selection of courses for all students.

According to ACT research, taking challenging courses in the quality core content areas will better prepare students for the ACT test, which is a top predictor of college readiness (www.act.org). In addition, students most likely to complete a college degree are those who engage themselves in demanding coursework over four years of high school. Beginning with the class of 2014, Ohio has enacted the Ohio Core Graduation Requirements that you will see outlined in this guide. In addition, for students planning to attend a four-year college, the Ohio Department of Higher Education recommends the completion of four years each in English, math, social studies, and science, three years of a world language, and one year of technology or the arts.

The learning opportunities available in our high school will provide a solid foundation for a successful future. Together we will make these four years a rewarding and effective foundation from which to build your lives!

Please note, this course book is expected to be approved by the NU Board of Education in February 2023.

Sincerely,

Mr. Justin Ufferman
Principal

Mr. Keith Conkling
Assistant Principal

Mrs. Jennifer Willis
School Counselor

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Graduation Requirements

Graduation requirements include those prescribed by the Ohio Department of Education, but should be considered minimum requirements. Students will generally plan for or earn more than these minimum credits. Ohio law allows high school credits earned prior to ninth grade to be used to satisfy the minimum graduation requirements. The grades earned in these courses will count in the student's grade-point average and class rank. Requirements for high school graduation at North Union consist of a minimum of 23 credits, which must include the following:

ALL CLASSES:	
English Language Arts	4 units
Social Studies, including one unit of American History and one unit of World History and one unit of American Government	3 units
Science*: with inquiry-based lab experience, including one unit each in Physical Science and Biology and one unit in advanced science. At NUHS, Advanced Science is Chemistry, Physics, Environmental Science, AP Biology.	3 units
Math**, including one unit of Algebra II or its equivalent	4 units
Health	½ unit
Physical Education***	½ unit (2 courses)
Fine/Performing Arts****: Students must complete at least one unit of fine art. At North Union, this includes band, choir, or any art class including art history.	1 unit
Career and Financial Choices: All students must receive instruction in economics and financial literacy during grades 9-12. This class fulfills the financial literacy requirement set forth by the state of Ohio.	½ unit
Elective Credit: Elective credits must include one or any combination of foreign language, fine arts, business, career-technical education, technology, agricultural education or English language arts, mathematics, science or social studies courses not	6 ½ units

otherwise required. *At least two years of foreign language are required for 4 year college admission.*	
Total	23 units

***Science:** beginning with the class of 2018, Agri-Science 3 may be substituted for the 3rd science credit requirement. It will not replace a Physical Science course or Biological/Life Science course. Students/Parents will need to sign off on a waiver indicating this substitution during the junior year. Please understand: Chemistry and/or Physics is required for admission to most four year colleges and many health programs at two year colleges. (Source: The Ohio State University)

****Math:** beginning with the class of 2018, Algebra 2 is not a requirement for students following a career-technical pathway. Students may substitute the course with a different math class (may not be algebra or geometry workshop). Students/Parents will need to sign off on a waiver declaring a career-technical pathway during the junior year, or the year Algebra 2 would have been taken. Algebra 2 is needed to be considered remediation-free at most four year colleges, including The Ohio State University. (Source: The Ohio State University)

*****A **Physical Education waiver** may be applied toward this requirement.

******The Fine Arts Requirement** may be waived for students who attend Tri-Rivers Career Center for **both** 11th and 12th grades. The students will replace the fine arts credit with another elective.

College Preparatory Program

Test scores, Grade Point Average (GPA), and courses taken in high school are all factors affecting college admission. The recommended college preparatory program includes:

4 years of English, with emphasis on composition
4 years of mathematics
4 years of science
4 years of social studies
2-3 years of one world language *
1 year of fine, applied, or performing arts

A robust curriculum assists students in transitioning from high school to college. Since requirements vary from university to university, students are strongly encouraged to check the latest policies regarding course requirements with each university or college admission office.
**While two credits in one world language are minimum, successful world language students (grade C or better) are encouraged to take three or four years of the same language if possible.*

Ohio Graduation Requirements - For Class of 2023 and Beyond:

In addition to earning a minimum of 23 credits, students are also required to demonstrate competency on the Algebra I and English 2 End-Of-Course Exams (Ohio State Tests-OST) and demonstrate readiness by obtaining at least two diploma seals (one of the seals must be a state seal). If students do not show competency on those two end-of-course exams, there are alternate pathways.

Diploma Seals:

	**Ohio Means Jobs Readiness Seal (state)**	Meet the requirements and criteria established for the readiness seal, including demonstration of work-readiness and professional competencies. More information is on the Ohio Department of Education website.
	**Industry-Recognized Credential (state)**	Earn an approved industry-recognized credential that is aligned to a job considered in demand in Ohio. More information is available on the Ohio Department of Education website.
	**College-Ready Seal (state)**	Earn remediation-free scores on the ACT or SAT.
	**Military Enlistment Seal (state)**	Provide evidence that a student has enlisted in a branch of the US Armed Forces
	**Citizenship Seal (state)**	1. Earn a score of "proficient" or higher on both American History and American Government End-Of-Course exams 2. Earn a final course grade that is equivalent to a 'B' or higher in appropriate class taken through the College Credit Plus program 3. Earn a 'B' or better in both US History and Government courses.
	**Science Seal (state)**	1. Earn a score of proficient or higher on the biology end-of-course exam 2. Earn a score that is at least equivalent to proficient on appropriate Advanced Placement test 3. Earn a final course grade that is

		equivalent to a 'B' or higher in appropriate class taken through the College Credit Plus program 4. Earn a 'B' or better in a 1.0 credit "advanced science course". At NUHS, this would be Chemistry, Physics, Environmental Science, Anatomy/Physiology and Astronomy.
	**Honors Diploma Seal (state)**	Earn one of six Honors Diplomas as outlined by the Ohio Department of Education.
	**Seal of Biliteracy (state)**	Meets the requirements and criteria, including proficiency requirements on assessments in a world language and English.
	**Technology Seal (state)**	1. Complete a course offered through the school that meet guidelines per Ohio Department of Education 2. Earn a final course grade that is equivalent to a 'B' or higher in an appropriate class taken through the College Credit Plus program.
	**Community Seal (local)**	Complete 60 hours of community service by April 1 of the senior year.
	**Fine & Performing Arts (local)**	Earn 3 credits in art, music, speech, and/or drama and participate in 2 art-related extracurricular activities

	**Student Engagement Seal (local)**	Participate in a total of six extracurricular activities during grades 9-12.

North Union High School has a Diploma Seal website, which students and parents may consult for more information: https://sites.google.com/nu-district.org/diploma-seal-resources/home

Recommended Progression of Required Courses

Grade 9	Grade 10	Grade 11	Grade 12
English 1	English 2	English 3	English 4
Math	Math	Math	Math
Biology	Physical Science or Chemistry	Chemistry, Physics, AP Biology, Environmental Science	4th year of science
World History	American History	American Government	
Physical Education / Career & Financial Choices	Career Pathway course	Career Pathway course	Career Pathway courses
Fine Arts	Fine Arts	electives	electives

Most North Union students will complete Health in 8th grade as well as one required Physical Education class. It is strongly recommended that students complete this requirement by the end of 9th grade. Fine Arts may be completed anytime during high school.

Honors vs. Regular Diploma

North Union issues two types of high school diplomas: Honors Diplomas and Regular Diplomas. It is important that students, as early as their freshman year, plan for the type of diploma they wish to receive at graduation. Please note, the International Baccalaureate Honors Diploma is not available at North Union. Per current school board policy, students who wish to be valedictorians or salutatorians are required to graduate with an Academic Honors Diploma. Please see the back of this book for Honors Diploma requirements.

Academic Distinctions - beginning with the class of 2022

Valedictorian: Students who achieve a grade point average of 4.0 and complete Academic Honors Diploma requirements after the 7th semester will receive the distinction of valedictorian status at commencement.

Magna Cum Laude, Summa Cum Laude, Cum Laude: Students will be honored at commencement based on the following cumulative GPA scales. Students will be eligible for the academic awards after the 7th semester.

Summa Cum Laude: 4.00 GPA
Magna Cum Laude: 3.75 to 3.999 GPA
Cum Laude: 3.50 to 3.74 GPA

Schedule Changes

Planning a schedule for the next school year is a difficult task and situations may occur requiring a change in that schedule. These schedule changes, however, have a serious effect on class size, teacher assignments, and the overall master schedule, and therefore, will be approved sparingly. The student and parent are urged NOT to plan a program with the idea that it can be changed. **Since few schedule change requests will be granted, please take this process seriously. Please choose your courses wisely.**

Students are required to take a minimum number of courses each year. This "minimum course load" includes both required courses and elective courses. With the guidance of parents and counselors, students select these courses during the registration period. This is the time when schedule planning is completed. This booklet is the student's and parent's guide for making these selections. Per state law, the minimum course load is five credits per school year. North Union policy is for students to have not more than one study hall per semester.
After the close of the current school year, no changes will occur unless:
1. There is a technical error in the scheduling process (data entry error, semester imbalances, etc.)
2 .It is clear that the student is academically misplaced.
3. There is a scheduling conflict.
4. A failure in a required course.
5. The student attended summer school and made-up a credit for a class in his/her schedule.
6. The student failed to meet the prerequisite for the course during the second semester of the current school year.
7. Discretion by the school counselor or principal.

Important dates to request a schedule change

First semester 2023-2024
First day of classes: TBA
Last day to request a change for 1st semester: 5 days after the start of the new school year

Second Semester 2023-2024
First day of classes: TBA
Last day to request a change for 2nd semester: 5 days after the start of the second semester
At the time of this publication, the school board has not approved a calendar for the 2023-24 school year.

Dates will be subject to change if NU is adjusting daily schedules due to COVID19. College Credit Plus classes follow the college calendar for adding/dropping.

Suggestions for Scheduling

Students are encouraged to review their educational goals with their parents, teachers, and school counselor to tailor their program to meet their plans for graduation. Consider post-graduate plans to ensure adequate preparation to meet these goals. The following guidelines will help to select and continue in an appropriate program of study:

- ✓ include all the classes necessary to meet graduation requirements
- ✓ review thoroughly the courses available

- ✓ be realistic about your ability and aptitude when selecting your high school courses
- ✓ consider the prerequisites and recommendations necessary to take each course
- ✓ consider the grades you have earned in the past
- ✓ consider your interests and take courses that will increase your knowledge in these areas
- ✓ discuss course selections with parents, teachers, and counselor prior to registration
- ✓ consider entrance requirements at the post-secondary school in which you are interested
- ✓ consider entrance requirements for jobs that do not require a 4-year degree

The more planning and thought given to registration, the more rewarding and successful the high school experience will be.

NCAA Eligibility

Students who plan on participating in college athletics at an NCAA member school must ensure that courses taken throughout his or her high school career meets the eligibility standards as set by the NCAA Eligibility Center. For a complete listing of all requirements as well as all approved and denied courses, please visit the NCAA Eligibility Center website at http://eligibilitycenter.org

Advanced Placement (AP) Courses

The Advanced Placement Program (AP) offers college level courses in various disciplines with the primary aim of preparing a student to master college level material while in a secondary school environment.

AP offers a learning experience which is more challenging and requires more (in many cases advanced summer) work and time than typical high school/college preparatory/honors courses.

The AP Exam is an option for students who wish to earn college credit in the respective AP courses. The Exams are administered in May on national test dates established by the College Board. Scores range from 1 (lowest) to 5 (highest) and are recorded on the student's transcript as part of his/her testing record. The determination of an acceptable score, placement and whether or not credit is awarded is at the discretion of the receiving college/university. Regardless, the challenges of learning, preparing for, and taking the exam remain among the best experiences in preparing for college level learning.

The fee for the AP exam is approximately $95. In some cases (i.e., reduced lunch participants, hardship, etc.) partial fee waivers are possible. Students with learning disabilities may request extended time or special accommodations.

Current AP courses offered include:
Biology
Art Studio & Design
Calculus AB
Chemistry (every other year; offered 2024-25)

By taking an AP course, a student:

- Gets a head start on college-level work
- Improves writing skills and sharpens problem-solving techniques
- Develops the study habits necessary for taking rigorous course work

AP students stand out in the college admission process by:

- Demonstrating maturity and readiness for college
- Show willingness to push yourself academically
- Emphasizing commitment to academic excellence

More information can be found at www.collegeboard.com

College Credit Plus

College Credit Plus (CCP) provides an opportunity for college-ready students in grades 7-12 to take a college course and earn both high school and college credit. This credit appears on both the student's high school and college transcripts.

North Union students have an opportunity to complete College Credit Plus coursework both on the high school campus and on a college campus. CCP courses offered in our high schools are taught by teachers who hold credentials as adjunct professors at an Ohio college or university, or work directly with college or university faculty members.

Students are eligible for up to 30 credit hours per academic year that runs summer term through spring term. Students must register for Level 1 courses through the first 15 hours of CCP work. Successful completion of coursework in the CCP program will earn students both transcripted college credit that can be transferred to universities and colleges.

There is no cost to participate in CCP at public institutions and textbooks are included (students are required to return textbooks at the end of the term). Additional fees may apply at private institutions. Optional fees are not covered under CCP including transportation and parking.

Why choose CCP?

- Explore post-secondary interests
- Enroll in classes not available at high school
- Be exposed to college faculty/college expectations
- Earn an industry credential (or be well on your way to earning one)
- Transfer college credit, especially between public institutions within Ohio

Points to Consider

- Is this a right fit for me based on my strengths and goals? College courses may take more time and move at a faster pace than high school courses.
- Courses may transfer differently to other institutions. Check out transferology.com to explore credit portability. College courses follow the institution's guidelines (dates in session, withdrawal procedures). You may have college courses during your high school spring break.
- There is a financial obligation to reimburse the district if you fail or do not complete a course, including withdrawing with a W.
- You need to make Satisfactory Academic Progress (SAP) in order to continue receiving federal student aid as a full-time college student. In other words, you have to make good enough grades, and complete enough classes (credits, hours, etc.) to keep moving toward successfully completing your degree or certificate in a time period that is acceptable to your school. Your performance in CCP courses count toward SAP. (https://studentaid.ed.gov/sa/eligibility/staying-eligible)

- The Ohio Department of Higher Education has additional information at www.ohiohighered.org/ccp.

Flexible Credit (also known as "Testing Out")

Students who are interested in testing out of classes must pick up and return an application to the guidance office. The policy is listed below. This is school board policy IGBM-R-2.

Credit Flexibility Plan

1. Students will be notified twice a year either through newsletters, parent letters, e-mail, or automatic notification system about the upcoming opportunities for flexible credits.

   a. Students must request in writing by September 15 for Fall testing out or by February 1 for spring testing out.
   b. If a student wishes to test out during the summer, an agreement has to be reached between the teacher and administration on the timeline.
   c. The Fall testing out period will be October 15 through December 15. The spring testing out period will be March 1 through May 1. If these cut-off dates fall on a calamity day or a holiday weekend, then the last day of the testing out period will be the next scheduled school day.

2. Students must receive a grade of 80 % or above to pass a course through testing out procedures.

   a. Middle school students have the option of accepting the grade for high school credit.
   b. High school students who have completed the testing-out course requirements must accept the grade on their transcripts and impact on class rank.
   c. Weights, grading and Carnegie scales will be the same as if the student attended the course. Course credits and weights are listed annually in the Course Description Handbook. If this is a dual credit course, grades will count on both transcripts.
   d. Students testing out of dual credit courses must meet the colleges' or universities' testing out process.
   e. Students are responsible for materials, supplies, or items needed for a special lab. (i.e. wood for Industrial Technologies classes)

3. Test Out Fee - all courses will have a $100 fee associated that must be paid with the written request letter to test out of a course. This will go to offset the cost of materials, teacher consulting time and grading that would take place outside the normal school day. Dual credit courses could have a credit hour cost depending on the college offering the credit. Certain classes could have an additional $60 lab fee.

4. Partial and simultaneous credits are allowed by law if a student starts a school year in a year-long course and requests by October 1 to test out of the second semester. The student would remain in the course and receive partial credit for the first semester and, upon completion and passing of materials by December 15, would receive credit for the second semester and would not be required to continue in the course.

5. The board will accept incoming credits from online education, postsecondary options, other public schools, college dual credit and, at the discretion of the superintendent, the evaluation of courses that come from nationally accredited programs of higher education.

6. Students who do not complete the testing out requirements may, in writing, appeal to the superintendent for a 30-day extension. Students who transfer to another district or are applying for early graduation shall meet with the superintendent or designee to develop a plan for the completion of testing out credit.

Early Release Policy

Students may be released early from NUHS if they meet one of the following criteria:

12th grade - must be passing all required courses, meet the 93% attendance threshold (as set by the state) and be enrolled for the state-mandated five credits.

- Ag Business student
- College Credit Plus student - a few may also be eligible for late arrival
- Internship Placement through NUHS
- Employed
- Have a study hall 8th period or 7th/8th period - we will not change schedules to accommodate a request

In addition, seniors must be "on track" for graduation as determined by the guidance office. If grades fall below passing, students will be assigned to a study hall until grades are deemed satisfactory by one of the principals or counselors.

11th grade - must have a "C" or better in all courses and meet the 93% attendance threshold (as set by the state)

- College Credit Plus student (afternoon block only or off NU campus)
- Ag Capstone job
- Internship Placement through NUHS

10th grade - must have a "C" or better in all courses and meet the 93% attendance threshold (as set by the state)

- College Credit Plus student (afternoon block only or off NU campus)

9th grade

- No early release

Class Structure

Credit for courses taken at NUHS are awarded by the semester. For example, a student enrolled in Algebra 1 will see "Algebra 1a" and "Algebra 1b" on their schedule, report card, and transcript. It is possible that students will fail one semester and pass the other. Students only have to repeat the failed semester.

PLEASE NOTE: ELECTIVE COURSES IN THIS CATALOG MAY NOT BE AVAILABLE ON A YEARLY BASIS. SUCH COURSES WILL BE MADE PART OF THE SCHEDULE BASED UPON TEACHER AVAILABILITY AND THE NUMBER OF STUDENT REQUESTS.

COURSE FEES ARE SUBJECT TO CHANGE.

Career Pathways

Each North Union student will be expected to declare a career pathway by the beginning of their sophomore year. Students will be able to change pathways as needed, and participate in multiple pathways. Please see subsequent information on the different pathways offered at NUHS.

Required for all students:
601: Career/Financial Choices

Agri-Science Pathway:
700-701: Agri-Science 1: Agriculture, Food, & Natural Resources
703-704: Agri-Science 2: Animal/Plant Science
706-707: Agri-Production 3: Mechanical Principles
709-710: Agri-Production 4: Business Management for Ag & Environmental Systems
712-713: Ag Business: Work Release
714-715: Ag Business/Employability Skills
716-717: Ag Capstone
718-719: Ag Capstone Work Experience
720-721: Science & Technology of Food

Business & Administrative Services Pathway:
620-621: Business Foundations
624-625: Practical Business Applications
622-623: Strategic Entrepreneurship
607: Marketing (one semester)
OIS1240: Computer Applications (CCP)

College Credit Plus Pathway:
Various courses offered by Marion Technical College (see in this guide)
Various courses taken on a college campus
See CCP section for more information.

Engineering Pathway:
950-951 Introduction to Engineering Design
952-953 Principles of Engineering
954-955 Digital Electronics
956-957: Computer Integrated Manufacturing

Information Technology Pathway:
660-661: Information Technology 1
662-663: Computer Programming

Performing Arts Pathway:
817-818: Marching/Concert Band
813-814: Choir
820: Music Appreciation

Spanish Pathway:
500-501: Spanish 1 (may be completed in 8th grade)
502-503: Spanish 2
504-505: Spanish 3
506-507: Spanish 4
508-509: Spanish 5 or AP Spanish

Pre-Nursing Pathway:
928: Introduction to Healthcare Professions (freshman/sophomores)
930: Patient Centered Care (First Year)
932: Medical Terminology (First Year)
938: Mental Health (Second Year)
934: Principles of Allied Health (Second Year)
Course Fees: Students are required to purchase: scrubs, white all leather shoes, and a watch with a minute hand. Additionally, students taking the STNA (industry credential exam) may be required to pay half of the exam fee ($50).

Visual Arts Pathway:
800: Foundations of Art (may be completed in 8th grade)(one semester)
801: Drawing (one semester)
802: Painting (one semester)
803: Ceramics (one semester)
804: Sculpture (one semester)
805-806: Independent Study Art (one semester or a year)
807-808: AP Art Studio

Tri-Rivers Career Center Pathway:
Courses begin in 10th grade for Construction Technology, and in 11th grade for all other programs. Students must apply and be accepted to the program. More information is available on their website: www.tririvers.com

All pathways have the opportunity to participate in:
970-971: Career Pathway Internship
960: Industry Credential Lab 1 (1st semester)
961: Industry Credential Lab 2 (2nd semester)

CAREER & FINANCIAL CHOICES (601) - ONE SEMESTER
Prerequisite: none; required for all freshmen and graduation
EMIS: 300010
Credit: 0.50
Grade: 9-10
Fee: $10.00
Career Choices is a freshman transition course that addresses personal/social, educational, career, and life skills. The culmination of this course is the development of a ten year plan that can be updated as students grow, change, or face transitions. The students learn the skill for goal setting, identity formation, decision making, budget projection, career research, lifelong learning skills, and managing change. Personal Finance will also be covered in this course and this course will satisfy the Ohio Core financial literacy requirement.

INDUSTRY CREDENTIAL LAB (960-961) - ONE SEMESTER OR ONE YEAR

Prerequisite: junior/senior standing
Credit: 0.5 per semester
Grade: 11-12
Fee: possible cost of credentialing tests
This independent study lab is designed to provide students opportunities to choose and earn industry credentials offered by several of our career pathways. Credentials include, but are not limited to, retail/restaurant, CPR/First Aid, OSHA, Microsoft, and various engineering and agriculture credentials. Many of these options are web based, independent driven, and will be supported by one of our CTE staff members. Credentialing provides opportunities for job advancement and placement for the current demands of the job market. There will also be opportunities to work on the Ohio Means Job Diploma Seal.

Agri-Science Pathway

Many ag-related careers are in demand in Ohio and across the county. Join the NUHS state and nationally recognized FFA student organization. Engage in hands-on, challenging individual projects. Develop premier leadership and career skills and experience personal growth. There is something for everyone in the ag program! Students who complete four courses in the Ag pathway will be eligible to wear the blue & gold cord at graduation.

AGRI-SCIENCE 1 (700-701) - ONE YEAR

Prerequisite: none
EMIS: 010105
Credit: 1.0 for class; 0.25 for SAE Project
Grade: 9-12
Fee: $23.00
Students will learn concepts in animal science such as animal care, nutrition, reproduction, genetics, and animal health. They also study record keeping, business technology, parliamentary procedure, safety, leadership and personal development. Approximately six weeks is devoted to skill development in woodworking.

AGRI-SCIENCE 2 (703-704) - ONE YEAR

Prerequisite: Agri-Science 1 or permission of instructor
EMIS: 010125
Credit: 1.0 for class; 0.25 for SAE Project
Grade: 10-12
Fee: $23.00
Students learn the concepts of plant science, which include plant anatomy, physiology, chemical processes, reproduction, germination, nutrition, genetics, and hydroponics. They also learn concepts of environmental science and the study of soil, air and demonstrate maintenance procedures of small engines. A time period will be allocated for the study and demonstration of welding principles and skills.

AGRI-PRODUCTION 3 (706-707) - ONE YEAR

Prerequisite: Agri-Science 2 or permission of the instructor
EMIS: 010120
Credit: 1.0 for the class; 0.25 for SAE Project
Grade: 11-12
Fee: $23.00
Students learn the concepts and operations of agricultural machinery, electricity, grain handling and record keeping. Time will be allocated for construction of projects in the workshop to further improve knowledge and skills in construction.

AGRI-PRODUCTION 4 (709-710) - ONE YEAR

Prerequisite: Agri-Production 3 or permission of the instructor
EMIS: 0101115
Credit: 1.0
Grade: 12
Fee: $23.00
Students learn concepts of business management along with the study of taxes, insurance, credit, and marketing. Time will be allotted for the construction of projects to further improve knowledge and skills in construction. Seniors who do not plan to

participate in the work experience program should sign up for this course.

AGRICULTURAL BUSINESS/EMPLOYABILITY SKILLS - (712-713;714-715) - ONE YEAR
Prerequisite: Agri-Production 3 or permission of the instructor; must be employed to qualify for work release
EMIS: 0101115
Credit: 3.0 total - 1.0 for course, 2.0 for work experience
Grade: 12
Fee: $23.00
The course is the same as Agri-Production 4, however, each student is required to complete 470 hours of job placement at an agricultural related training station. An early release work program is available to qualified students.

AGRICULTURAL/ENVIRONMENTAL SYSTEMS CAPSTONE (718-719) - ONE YEAR
Prerequisite: Agri-Science 1 & 2 or permission of the instructor; must also be enrolled in Ag 3 or 4
EMIS: 010190
Credit: 1.0
Grade: 11-12
For students who wish to display mastery in Agricultural Education, this course is designed to reach beyond the classroom walls and tackle current and future agricultural issues. The student will participate in service projects, independent projects, and become an advocate for agriculture. There will be an emphasis on record keeping through an individualized supervised agricultural experience program (SAE). Students will us the opportunities that the National FFA provide to grow and build upon their interpersonal skills.

SCIENCE AND TECHNOLOGY OF FOOD (720-721) - ONE YEAR
Prerequisite: Ag Science 1; Chemistry
EMIS: 011010
Credit: 1.0
Grade: 11-12
Students will examine the research, marketing, processing, and packaging techniques applied to the development of food products. Learners will examine nutrient content and their chemical makeup, while applying principles of chemistry to the development of food products. They will examine and implement food safety, sanitation, and quality assurance protocols. Government regulations and food legislation will be examined and the implications to food science and technology will be identified.

Business/Technology Pathway

Gain valuable business and leadership experience through challenging, engaging classroom projects. Business and business management occupations are in demand in Ohio and across the country. Get hands on, real world experience, and find out if this is the career choice for you. Students who complete 4 courses in the business pathway will earn a royal blue cord for graduation.

PRINCIPLES OF MARKETING (607) – ONE SEMESTER
Prerequisite: none
EMIS: 144000
Credit: 0.50
Grade: 9-12
Fee: $5.00
This course is the study of the basic concepts of marketing. It is designed to vire marketing from the perspectives of the consumer and company. Students will explore the concept of the marketing mix (the four P's: product, price, promotion, and place) and include the understanding of consumer and business buying behavior, customer-driven marketing strategies, marketing channel design, and management as well as ethical marketing practices.

BUSINESS FOUNDATIONS (620-621) - ONE YEAR
Prerequisite: None
EMIS: 141000
Credit: 1.00

Grade: 9-10
Fee: $10.00
The first course in the business pathway is designed as an introduction to the business career fields. Students will obtain knowledge and skills in fundamental business activities, explore types of businesses and discuss buying goods and services. They will acquire knowledge of business processes, economics, and business relationships. Employability skills, leadership, communications, and personal financial literacy will also be addressed.

PRACTICAL BUSINESS APPLICATIONS (624-625) - ONE YEAR
Prerequisite: Business Foundations
EMIS: 141000
Credit: 1.00
Grade 10-12
Fee: $10.00
This course will provide students with various concepts of business and employability skills. This integrated, project-based course will help students use the software applications Microsoft Word, Excel, Power Point, and Access to solve business problems. The curriculum provides necessary skills training to prepare students to obtain the Microsoft Office Specialist Certifications (MOS) and earn a 12-point industry credential towards graduation. This course will count towards the Technology Diploma Seal.

STRATEGIC ENTREPRENEURSHIP (622-623) - ONE YEAR
Prerequisite: None, but Business Foundations is recommended.
EMIS: 141030
Credit: 1.00
Grade: 10-12
Students will use innovation skills to generate ideas for new products and services and develop a strategy for commercialization. They will select target markets, profile target customers, define the venture's mission, and create business plans. Students will take initial steps to establish a business. Establishing a brand, setting process, promoting products, and managing customer relationships will be emphasized.

COMPUTER APPLICATIONS (OIS1240) - ONE SEMESTER
Prerequisite: student must qualify for College Credit Plus through Marion Technical College.
EMIS: 036000
Credit: 1.0
Grade: 9-12
***College Credit Plus - 3.0 semester hours through MTC for OIS1240**
This integrated, project-based course will help students use the software applications Microsoft® Word, Excel, PowerPoint, and Access for a PC, to solve business problems. Students will use the Internet and e-mail as they research topics and prepare documents using the appropriate software applications. Course topics include technology history, future trends in technology, and the role of technology in a professional environment. Please note, this course is a prerequisite for many other MTC courses. This course will count towards the Technology Diploma Seal.

College Credit Plus Pathway

Ohio's College Credit Plus program can help students earn college and high school credits at the same time by taking college courses from community colleges or universities. The purpose of this program is to promote rigorous academic pursuits and to provide a wide variety of options to college-ready students. Taking a college course from a public college or university is free. Several Marion Technical College classes are offered at NUHS and detailed in this book. Please read carefully about the testing requirements and deadlines associated with CCP to ensure you are eligible to participate in the program. Students who complete 12 credit hours (4 courses) will earn a black cord for graduation.

Engineering Pathway

The engineering pathway at NUHS is aligned with Project Lead the Way standards, a nationally recognized engineering program. Students have the opportunity to attend Tri-Rivers Career Center during the junior and senior year in the RAMTEC (Robotics & Advanced Manufacturing Technology Collaborative) Engineering program. Students may apply their skills through optional participation in our VEX Robotics club, which is open to any student no matter what pathway. Students who complete 4 engineering courses will earn an orange cord for graduation. Students who complete any of the Engineering courses will earn a Technology Diploma Seal for graduation.

Suggested sequence of courses:

9th grade	10th grade	11th grade	12th grade
Intro to Engineering Design (Should have completed Algebra 1 or be taking Algebra 1)	Principles of Engineering	Computer Integrated Manufacturing Tri-Rivers Career Center Engineering Program	Digital Electronics Tri-Rivers Career Center Engineering Program

INTRODUCTION TO ENGINEERING DESIGN (950-951) - ONE YEAR
Prerequisite: None; however completion of Algebra 1 is recommended.
EMIS: 175001
Grade: 9-12
Credit: 1.00
Fee: $20.00
The focus of IED is the application of the engineering design process. Topics include work-processes, optimization methods, design optimization, and risk management tools. Students will use 2D and 3D modeling software to help them design solutions to solve proposed problems, document their work, and communicate solutions. Additionally, students will interpret industry prints, and create working drawings from functional models. Emphasis is given to experimental problem solving in real systems.

PRINCIPLES OF ENGINEERING (POE) (952-953) - ONE YEAR
Prerequisite: Successful completion of Algebra 1; sophomore standing
EMIS: 175002
Grade: 10-12
Credit: 1.00
This course will introduce students to fundamental engineering concepts and scientific principles associated with engineering design applications. Topics include mechanisms, energy statics, materials, and kinematics. Additionally, students will learn material properties and electrical, control, and fluid power systems. Students will learn to apply problem solving, research, and design skills to create solutions to engineering challenges.

DIGITAL ELECTRONICS (954-955) - ONE YEAR
Prerequisite: Senior standing; can take as a junior if completed Algebra 2. POE recommended.
EMIS: 175007
Grade: 12
Credit: 1.00
Students are introduced to the process of combinational and sequential logic design. The system uses a precise sequence of discrete voltages, representing numbers, non-numeric symbols or commands for input, processing, transmission, storage or display. Engineering standards and methods for technical documentation will also be learned.

COMPUTER INTEGRATED MANUFACTURING (956-957) - ONE YEAR
Prerequisite: junior standing; POE recommended
EMIS: 175006
Credit: 1.00
Grade: 11-12
Students will explore the manufacturing processes, product designs, robotics and automation. Students will learn about and design solutions to real-world manufacturing problems.

Foreign Language (Spanish) Pathway

Information about scheduling a foreign language:

- Most colleges require two years of the same foreign language for unconditional acceptance.
- More demanding colleges require three years of the same foreign language for acceptance.
- Almost every college will give a placement test to determine where you will enter the foreign language program. Please realize that many colleges and many degrees/fields of study require that you take foreign language at the college level once you are accepted.
- The Ohio State University currently requires four semesters of foreign language for most degrees. Many private colleges require two semesters of foreign language for a liberal arts degree. Four years of successful study could possibly give you the ability to test out of the entire program.
- Three years of the same foreign language, or two years each of two foreign languages are required for an Honors Diploma.
- Foreign Language is strongly recommended by the Ohio Core plan.

Students who complete Spanish 1-4 and participate in Spanish Club, tutor in Spanish, or complete Spanish 5 as an Independent Study will earn a teal cord to wear at graduation.

SPANISH 1 (500/501) – ONE YEAR
Prerequisite: A "C" or better in English or permission of the instructor. Incoming freshmen must have a "B" or better in 8th grade English.
EMIS: 060265
Credit: 1.00
Grade: 9-12
The goals of this course are to help the student master the fundamentals of the language and to gain an appreciation of the culture of the Spanish speaking people. Emphasis is given to pronunciation, vocabulary, grammar, idioms, and reading comprehension. A wide variety of methods are used including reading and writing paragraphs, and textbook assignments. Tests, quizzes, comprehension, and class participation all determine the student's grade.

SPANISH 2 (502/503) – ONE YEAR
Prerequisite: A "C" or above in Spanish 1 or permission of the instructor.
EMIS: 060265
Credit: 1.00
Grade: 9-12
Students will gain workable knowledge and fluency in Spanish and a depth of understanding of the Spanish culture. A continuation of Spanish 1 with particular emphasis given to vocabulary, reading comprehension, grammar, and culture. Conversations, dialogues, reading and writing assignments. Lectures, recording, and visual aids will be used to supplement reading assignments. Workable knowledge of Spanish, quizzes, tests, accuracy in conversation, and dialogues determine the student's grade.

SPANISH 3 (504/505) – ONE YEAR
Prerequisite: A "C" or above in Spanish 2 or permission of the instructor
EMIS: 060265
Credit: 1.00
Grade: 10 –12
To help the student gain proficiency in reading and speaking Spanish. Also, to provide a better understanding of and appreciation for the Spanish people. Methods used will include reading short stories, tapes, television. Workable knowledge of Spanish, quizzes, and dialogues will determine the grade.

SPANISH 4 (506/507) – ONE YEAR
Prerequisite: A "B" or above in Spanish 3 or permission of the instructor.
EMIS: 060265
Credit: 1.00
Grade: 11-12
This course is to be a continuation of all material covered in Spanish 3, plus the reading of a Spanish novel.

SPANISH 5 (508/509) - ONE YEAR
Prerequisite: teacher permission; may be taken concurrently with Spanish 4
EMIS: 060265
Credit: 1.00
Grade: 11-12
This course focuses mainly on reading comprehension and writing. Students will watch a video series and must be able to work independently.

Information Technology

The IT Pathway was new to NUHS for the 2022-23 school year. This pathway prepares students for careers in Information Technology, and helps them develop IT skills which can enhance their skills in other pathways. NUHS intends to add classes in subsequent years to grow this pathway. Completion of this pathway will earn students a green cord for graduation. We will also combine this pathway with any previous courses taken in Interactive Media for the cord honors.

INFORMATION TECHNOLOGY (660-661) - ONE YEAR
Prerequisite: None
EMIS: 145005
Credit: 1.00
Grade: 9-12
The first course in the IT Career Field is designed to provide students with a working knowledge of computer concepts and essential skills necessary for work and communication in today's society. Students will learn safety, security, and ethical issues in computing and social networking. Students will also learn about input/output systems, computer hardware and operating systems, and office applications.

COMPUTER PROGRAMMING (662-663) - ONE YEAR
Prerequisite: Information Tech 1 is recommended
EMIS: 145060
Credit: 1.00
Grade: 10-12
In this course, students will learn the basics of building simple interactive applications. Students will learn the basic units of logic: sequence, selection, and loop. Students will apply algorithmic solutions to problem-domain scenarios. Students will gain experience in using commercial and open source languages, programs, and applications.

Performing Arts Pathway

The Performing Arts Pathway provides students with an opportunity to explore music as a viable industry, develop their musical skills, creativity, and technical abilities. Students receive a wealth of real world experiences as well as explore various genres of music from different time periods. Students will also understand music as part of the human experience, as well as developing multiple soft skills that are valued by employees in any industry. Students who complete four years of classes in this pathway will earn a lavender cord to wear at graduation. Courses in this pathway also count towards the Fine & Performing Arts Diploma Seal.

MARCHING/CONCERT BAND (817-818) - ONE YEAR
Prerequisite: None, but must have own instrument
EMIS: 120500
Grade: 9-12
Credit: 1.0
Fee: $15; must purchase band shoes and shirt.
A student enrolling in Band must have a desire to learn, enthusiasm, and a willingness to work toward a common goal. Students are able to be in both marching and concert bands and are required to attend all band functions. Marching band consists of summer rehearsals, in addition to performances at all football games, band shows, and parades. After school and/or evening rehearsals will be held. Attendance is required at all performances and rehearsals. Extra work will be assigned for making up excused absences. Students in concert band only are expected to be in class all year and learn marching band music.

CHOIR (813-814) - ONE YEAR
Prerequisite: none
EMIS: 120400
Grade: 9-12
Credit: 1.0
Fee: $15; however students are required to wear appropriate dress clothes for performances.
This class is open to any student who has an interest in singing. Students must be enthusiastic about vocal music and singing in general. Many different styles of choral music are studied and performed in 2 or 3 part harmony. Attendance is required at all performances. Students will be evaluated and graded on class participation, attendance, performance techniques, effort, and knowledge of his/her vocal part.

MUSIC APPRECIATION (820) - ONE SEMESTER
Prerequisite: None
EMIS: 120800
Grade: 9-12
Credit: .50
Fee: None
This class is open to any student and will meet 0.5 of the 1.0 fine/performing arts required for graduation. This is a non-performance class that explores music of various styles through listening experiences. All styles of music are covered. Investigations of composers and performers integral to the styles are included in this class. Activities include listening, discussions, projects, and presentations on each style of music.

Pre-Nursing Pathway

Courses in the pre-nursing pathway are taught in a 2-period block. Students have the opportunity to earn industry credentials such as the STNA and Phlebotomy. Healthcare professionals are in demand in our area and across Ohio. This program is a good opportunity for students to get hands-on, real world experience and find out if this is a good career choice for themselves. Students may earn articulated credit to Marion Technical College. Students who complete this pathway will earn a red cord to wear at graduation.

Course Sequence:

9th/10th grade	11th grade	12th grade
Intro to Health Care Professions (semester) (not required to be in the program)	Pre-Nursing 1 (blocked classes, plan for 2 periods a day) *Patient Centered Care - 1.0 credit *Medical Terminology -1.0 credit	Pre-Nursing 2 (blocked classes, plan for 2 periods a day) *Mental Health - 1.0 credit *Principles of Allied Health - 1.0 credit

Pre-Nursing students are strongly encouraged to take Chemistry and Anatomy/Physiology.

INTRODUCTION TO HEALTH CARE PROFESSIONS (928) - ONE SEMESTER
Prerequisite: None
EMIS: 072001
Grade: 9-10
Credit: 0.50
Students will research and learn about a variety of in-demand healthcare professions. This course is not a prerequisite for the junior/senior program.

PRE-NURSING 1: PATIENT CENTERED CARE (930) - ONE SEMESTER
Prerequisite: Junior standing
EMIS: 072050
Grade: 11-12
Credit: 1.0
Fee: $30 to purchase scrubs (pay once per school year)

Students will apply psychomotor nursing skills needed to assist individuals in meeting basic human needs. Students will implement interventions following a nursing assistant plan of care. Students will collect the patient's vital signs including temperature, pulse rate, respiration rate, and blood pressure. Students will perform phlebotomy procedures with emphasis on infection prevention, universal precautions, proper patient identification, specimen acquisition, handling, and processing. Additionally, students will observe patients' physical, mental, and emotional conditions and document any change. Students will work towards earning a STNA Certificate (State-Tested Nursing Assistant) and 3 articulated credits to Marion Technical College.

PRE-NURSING 1: MEDICAL TERMINOLOGY (932) - ONE SEMESTER
Prerequisite: Junior standing
EMIS: 072150
Grade: 11-12
Credit: 1.0
This course focuses on the application of rules for constructing and defining medical terms with an emphasis on building a working medical vocabulary. Topics include using the appropriate abbreviations and symbols for anatomical, physiological, and pathological classifications and the associated medical specialties and procedures. Students will decipher medical terms by identifying and using word elements with an emphasis on derivation, meaning, and pronunciation. Further, students will interpret and translate medical records and documents.

PRE-NURSING 2: MENTAL HEALTH (938) - ONE SEMESTER
Prerequisite: senior standing
EMIS: 072065
Grade: 12
Credit: 1.00
Students will learn contemporary mental health theories related to psychiatric disorders and mental diseases. Students will differentiate between stress, anxiety, and crisis, and identify methods to maintain mental health, including problem-solving techniques, treatments and intervention strategies. Students will assess, plan, implement and evaluate mental health needs of the client. Additionally, students will use therapeutic communication techniques to be able to discuss documentation guidelines and the plan of care with the patient.

PRE-NURSING 2: PRINCIPLES OF ALLIED HEALTH (934) - ONE SEMESTER
Prerequisite: senior standing
EMIS: 072035
Grade: 12
Credit: 1.00
Students will apply knowledge and clinical skills necessary to assess, plan, provide, and evaluate care to patients in varied healthcare settings. Students will apply first aid principles and techniques needed for response to choking, cardiopulmonary resuscitation, and other life-threatening emergencies. Emphasis will be placed on regulatory compliance, patient safety, pathophysiology, and medical interventions. Possible industry credentials include: First Aid; CPR; Phlebotomy.

Visual Arts Pathway

The Visual Arts pathway provides students with an opportunity to explore art as a viable industry, develop their artistic voice, creativity, and technical abilities. Students receive a wealth of real world experiences as well as explore various mediums. Students gain an understanding of art history, commercialism, and its contemporary use within our society. Field trips to local museums, higher education programs and job shadowing afford students the opportunity to broaden their knowledge of the art world to ensure their experience is comprehensive. Students who complete this pathway will receive a violet cord to wear at graduation. Courses in this pathway also count towards the Fine & Performing Arts Diploma Seal.

FOUNDATIONS OF ART (800) - ONE SEMESTER
Prerequisite: none
EMIS: 020012
Grade: 9-12
Credit: 0.50
Fee: $40
Foundations of Art (FDA) is an introduction to various art processes such as drawing, painting, and three dimensional form. An emphasis is placed on composition which involves the use of formal art elements and principles of design. This course includes studio projects, art history, criticism, aesthetics, and a weekly sketchbook assignment. Students will be encouraged to create personally expressive art works.

DRAWING (801) - ONE SEMESTER
Prerequisite: completion of Foundations of Art
EMIS: 020250
Grade: 9-12
Credit: 0.50
Fee: $40
Drawing is offered to the student who has successfully completed Foundations of Art and would like to further explore the world of drawing on a higher level of detail. Course goals are to increase student's drawing skills and foundations for successful drawing in the following areas: self-expression, social expression, contour line, gesture drawing perspective. Students will use multiple mediums.

PAINTING (802) - ONE SEMESTER
Prerequisite: completion of Foundations of Art
EMIS: 020250
Grade: 9-12
Credit: 0.50
Fee: $40
Painting is offered to the student who has successfully completed Foundations of Art and would like to further explore the world of painting on a higher level of detail. Course goals are to develop an understanding of color theory while emphasizing on painting foundations for success painting.

CERAMICS (803) - ONE SEMESTER
Prerequisite: completion of Foundations of Art; grade 11-12; grade 10 with teacher approval
EMIS: 020242
Grade 11-12
Credit: 0.50
Fee: $40
Ceramics allows students to explore basic ceramics and pottery. Students will learn to develop quality projects with clay materials through various projects, to include the potter's wheel and handling techniques. Students will keep a portfolio of their work.

SCULPTURE (804) - ONE SEMESTER
Prerequisite: completion of Foundations of Art; grades 11-12; grade 10 with teacher approval
EMIS: 020290
Grade: 11-12
Credit: 0.50
Fee: $40
This class is for students who desire to explore the world of sculpture. Students will use a variety of materials to create quality projects, including paper manipulation, classy, plaster, wire, and traditional sculpture methods.

INDEPENDENT STUDY (805-806) - ONE SEMESTER
Prerequisite: Teacher permission; completion of Foundations of Art, Drawing, or Painting.
EMIS: 020012
Grade: 10-12
Credit: 0.50
Fee: $40 per semester
Independent study allows students to engage in self-directed art study. Within this course, students will research mediums and create original works representing investigation and mastery of studio art. Areas of investigation are drawing, painting, mixed media, ceramics, and sculpture.

AP ART STUDIO: 2D/3D/DRAWING (807-808) - ONE YEAR
Prerequisite: Teacher permission
EMIS:
Grade: 11-12
Credit: 1.00
Fee: $55
The AP Studio Art Portfolios are designed for students who are seriously interested in the practical experiences of art. AP Studio

Art is not based on a written exam; instead, students submit portfolios for evaluation in May, by the deadline set forth by the College Board. The AP Studio Art program consists of three portfolios- 2D Design, 3D Design, and Drawing - corresponding to the most common college foundations courses. Students will be expected to work independently on projects and will need to complete work over the previous summer before taking the course. An additional class period of Independent Study Art is required for this class.

Career Pathway Internship

CAREER INTERNSHIP (850-851) - ONE SEMESTER
Prerequisite: Participation in a career pathway; submit an application to participate.
EMIS: 300010
Grade: 11-12
Credit: varies, depending on hours completed. Approximately 0.5 credit per 60 hours of work.
An internship is a temporary position with an emphasis of on-the-job training rather than merely employment and it can be paid or unpaid. Companies usually have a specific project that is a good fit for interns. To participate, students must be in a career pathway, be on target to graduate, and maintain a grade of C or better in all classes. Parents will need to consent and a background check may need to be performed if necessary.

Academic Courses

English/Language Arts

ENGLISH 1 (100/101) – ONE YEAR
Prerequisite: none
EMIS: 050160
Grade: 9
Credit: 1.00
Fee: None, however students may be required to purchase novel(s) for the course.
Students will be introduced to literary analysis by studying the following literary forms: short story, novel, poetry, epic, drama and nonfiction. This will be accomplished in part by learning and applying an understanding of literary terms applicable to the study of literature. In addition, students will study vocabulary commonly used on college boards as well as learning roots, suffixes, and prefixes. Writing will focus on narrative and persuasive forms.

ENGLISH 2 (104/105) - ONE YEAR
Prerequisite: sophomore standing
EMIS: 050170
Grade: 10
Credit: 1.00
Fee: None, however students may be required to purchase novel(s) for the course.
This course is designed to give students a challenging and accelerated study of literature and composition. Writing skills receive more emphasis and students are required to write essays and critical analysis on the following types of literature: the short story, novel, and drama.

HONORS ENGLISH 2 (106/107) – ONE YEAR
Prerequisite: Completion of Honors English 1; Teacher/Counselor/Principal recommendation only/Gifted ELA status
EMIS: 050170
Grade: 10
Credit: 1.00
Fee: None, however students may be required to purchase novel(s) for the course.
This class is designed for students who are highly motivated to read and write and to improve their reading and writing skills. Students will be expected to offer insights and opinions and be ready to discuss and debate current and past literary material. The material will include English research, analysis of literature, Shakespeare, poetry, nonfiction, and contemporary plays. Students who do not maintain a "C" or better in the class may be removed.

ENGLISH 3 (108/109) – ONE YEAR
Prerequisite: junior standing
EMIS: 050180
Grade: 11
Credit: 1.00
Fee: None, however students may be required to purchase novel(s) for the course.
Students will read a variety of materials by American authors including fiction, non-fiction, short stories, poetry, and plays. Students will complete book reports during the school year, read novels, and study a play. Students will write analytical essays throughout the school year. In addition, students complete projects during the study of one novel and the play. Students are expected to work independently, critically read challenging material, and improve their writing skills.

HONORS ENGLISH 3 (110/111) – ONE YEAR
Prerequisite: Completion of Honors English 2; Teacher/Counselor/Principal recommendation only/Gifted ELA status
EMIS: 050180
Grade: 11
Credit: 1.00
Fee: None, however students may be required to purchase novel(s) for the course.
This class is designed for highly motivated students who are prepared to read several novels independently, study two to three additional novels and a play as a group, write essays that are analytical and expository, and study some non-fiction and poetry. Students are expected to fully participate in classroom discussions and group projects. In addition, students will be expected to work independently. Students who do not maintain a "C" or better in the class may be removed.

ENGLISH 4 (112/113) - ONE YEAR
Prerequisite: senior standing
EMIS: 050190
Grade: 12
Credit: 1.00
Fee: None, however students may be required to purchase novel(s) for the course.
Students will study non-fiction reading and writing. They will also be doing an in-depth study and analysis of material preparation for college reading and writing. Vocabulary study will continue. Writing will focus on exposition, analysis and interpretation, and persuasion.

SPEECH (120) - ONE SEMESTER
Prerequisite: Completion of English 1
EMIS: 059999
Grade: 9-12
Credit: .50
*This class does not count as an English credit for graduation.
The goal of this course is to stress individual improvement in speaking. Students will present a variety of speeches during class (informative, persuasive, problem-solving, conviction, news related, group, and impromptu.) Students will also study effective delivery techniques of oral interpretation and develop better listening skills as they learn about oral communication in a variety of settings. This class counts as a course toward the Fine and Performing Arts Seal.

ENGLISH COMPOSITION I (CCP) (ENG1000) - ONE SEMESTER
Prerequisite: accepted to Marion Technical College; qualifying test score as determined by MTC
Grade: 9-12; seniors have first priority into the course.
Credit: 1.0 HIGH SCHOOL CREDIT; 3 COLLEGE SEMESTER HOURS
In this composition course, you will write themes and essays based on your own experience. This class includes an analysis of the formality needs of Standard English, the study of effective organization and style, the analysis of writing for logic and reason, and a strong concentration on developing clear and concise writing skills. This course is part of the Ohio Transfer Module (OTM) and approved to transfer to any state college or institution. Each section of the course is limited to 22 students, with seniors and accepted students having the first priority.

CollegeCredit PLUS

ENGLISH COMPOSITION II (CCP) (ENG1100) - ONE SEMESTER
Prerequisite: "C" or better in English Comp I
Grade: 9-12
Credit: 1.0 HIGH SCHOOL CREDIT; 3 COLLEGE SEMESTER HOURS
As a continuation of English Composition I, students will expand their knowledge through reading, thinking, and writing assignments. Through essay writing, students will demonstrate their ability to analyze and evaluate ideas and integrate those ideas into their own writing. Students will engage in writing both independently and collaboratively while participating in discussions and reading assigned literature. The course places emphasis on the research essay as a fundamental form of writing in which students will document sources while integrating research into their writing. This course is part of the Ohio Transfer Module (OTM) and will transfer to any state college or university in Ohio. OTM Course TME002.

CollegeCredit PLUS

Health/Physical Education

HEALTH (550) – ONE SEMESTER
Prerequisite: None
EMIS: 260101
Credit: .50
Grade: 9
This course is designed to meet the requirements of the State Department of Education. Some of the areas covered are; mental health, nutrition, exercise and fitness, drug abuse, alcoholic beverages, tobacco, family and social health, and the effects of drug additives. This course may be taught in an online format. Most North Union students earn this credit in 8th grade.

PHYSICAL EDUCATION (551) – ONE SEMESTER
Prerequisite: None
EMIS: 080300
Credit: .25
Grade: 9
Students are required to have two Physical Education classes. The majority of incoming freshmen, who attended North Union Middle School, will have high school credit from their class in 8th grade.
Students gain exposure to a variety of team and individual sports and recreational activities. The emphasis is on skill development and understanding the activity. The specific activities are dependent upon class size and season of the year. Some of the activities are; archery, basketball, volleyball, gymnastics, softball, table tennis, weight-training and badminton. Students are instructed using the lecture, demonstration, and participation methods. Dressing for and participation in class is a requirement that must be met. The grade is based primarily on participation and skill development. Quizzes are given and students are evaluated on their playing ability and game knowledge. The requirement to dress and participate must be met or grade penalties will result.

Mathematics

Suggested sequence of courses:

8th grade math class:	9th	10th	11th	12th
Algebra 1 (1.0 High School Credit)	Honors Geometry	Honors Algebra 2	Pre-Calculus or CCP Statistics or CCP College Algebra	AP Calculus CCP Statistics, CCP College Algebra, or other CCP Math Option Discrete Math/Computer Science AQR (Adv. Quantitative Reasoning)
Math 8 (no High School Credit)	Algebra 1 Algebra 1 and Algebra 1 Workshop (teacher placement)	Geometry Geometry and Geometry Workshop (teacher placement) Honors Geometry	Algebra 2 Honors Algebra 2 AQR (Adv. Quantitative Reasoning) Discrete Math/Computer Science	Pre-Calculus CCP Statistics or other CCP Math Option AQR (Adv. Quantitative Reasoning) Discrete Math/Computer Science

ALGEBRA 1 (200/201) – ONE YEAR

Prerequisite: none
EMIS: 110301
Grade: 9
Credit: 1.0

This course is designed to meet the objectives as laid out in the common core state standards. These include, but are not limited to working with algebra expressions; properties of real numbers; solving, graphing, and writing linear equations; solving, graphing, and writing linear inequalities; solving systems of equations; exponents; quadratic equations and factoring quadratics; radical rational equations; probability and data analysis.

ALGEBRA 1 WORKSHOP (202/203) - ONE YEAR

Prerequisite: concurrent enrollment in Algebra 1; teacher or counselor placement only
EMIS: 111960
Grade: 9
Credit: 1.0

This course focuses on support and remediation in the area of algebra. Students will receive direct instruction in all areas of Algebra 1 beyond what they receive in the classroom. Along with direct instruction, students will work in an online program. The goal of Algebra 1 workshop is to build foundational skills to help the student connect math with real world situations.

GEOMETRY (204/205) – ONE YEAR
Prerequisite: completion of Algebra 1 or teacher permission
EMIS: 1112000
Grade: 10-12
Credit: 1.00
This course is designed to meet the objectives as laid out in the common core standards. These include, but are not limited to, reasoning, lines, and their relation to each other; triangle and relationships within triangles; congruity; similarity; and quads.

GEOMETRY WORKSHOP (206/207) - ONE YEAR
Prerequisite: concurrent enrollment in Geometry; teacher placement only
EMIS: 111970
Grade: 10-12
Credit: 1.00
This course focuses on remediation in the area of geometry. Students will receive direct instruction in geometry beyond what is taught in the regular class. Along with direct instruction, students will also work in an online program. The goal of the geometry workshop is to build the foundational skills to connect math for real world situations and to be better prepared for algebra 2.

HONORS GEOMETRY (208/209) – ONE YEAR
Prerequisite: "B" or better in Algebra 1 and teacher placement
EMIS: 111200
Grade: 9 – 10
Credit: 1.00
This course is designed to meet the objectives as laid out in the common core state standards. These include, but are not limited to reasoning; lines and their relations to each other; triangle and relationship within triangles; congruity; similarity; quads.

ALGEBRA 2 (210/211) – ONE YEAR
Prerequisite: Geometry or teacher permission
EMIS: 110302
Credit: 1.00
Grade: 11-12
This course is designed to meet the objectives as laid out in the common core standards. These include, but are not limited to, linear equations; linear systems; quadratic functions; polynomial functions; radical functions; exponential functions; rational functions; and sequence and series.

HONORS ALGEBRA 2 (212/213) - ONE YEAR
Prerequisite: "B" or better in Honors Geometry; teacher recommendation.
EMIS: 110302
Grade: 10 –11
Credit: 1.00
Fee: None; however students must provide their own graphing calculator
This rigorous course is designed to meet the objectives as laid out in the common core state standards. A variety of functions will be introduced, such as quadratics, polynomials, exponentials, logarithmic, and rational functions. Statistics and probability theory will also be explored. Students are strongly encouraged to purchase their own graphing calculator.

ADVANCED QUANTITATIVE REASONING (AQR) (214/215) – ONE YEAR
Prerequisite: Teacher recommendation; course can be substituted for the Algebra 2 requirement.
EMIS: 110500
Grade: 11-12
Credit: 1.00
Fee: None; however students must provide their own graphing calculator
This course is designed to promote reasoning and problem solving and modeling through thematic units focused on mathematical practices while reinforcing and extending content in Number and Quantity, Algebra, Functions, Statistics and Probability, and Geometry. Quantitative reasoning and modeling involve the application of mathematics to real world situations, with careful attention to the choice of units and contextual challenges. Problem solving requires analyzing an unfamiliar situation and devising a solution strategy. Problem-solving and modeling together provide opportunities for students to

experience success with mathematics, not merely improve their self-perception. These habits and skills promote perseverance and cut across disciplines, thus providing a gateway into successful postsecondary education and a variety of careers.

DISCRETE MATHEMATICS/COMPUTER SCIENCE (222-223) - ONE YEAR
Prerequisite: Teacher recommendation; course can be used as a 4th math credit.
EMIS: 111300
Grade: 11-12
Credit: 1.00
Fee: None; however students must provide their own graphing calculator
This course will be a pilot class for the Ohio Department of Education for the 2023-24 school year. Students will explore a variety of Discrete Math topics through a mix of hands-on classroom activities, traditional mathematical/logical reasoning and interactive computer science activities designed for students with no prior coding experience. Topics include computational thinking, computer logic, game theory, counting/combinatorics, probability, connectivity, iteration and recursion, and cryptography. All topics emphasize logical reasoning, proof and communication with precise mathematical and computer science language.

PRE-CALCULUS (216/217) – ONE YEAR
Prerequisite: Algebra 2; or teacher permission
EMIS: 110099
Grade: 11-12
Credit: 1.0
Fee: None; however students must provide their own graphing calculator
This course is designed for students preparing for AP Calculus. Topics include but are not limited to properties of functions, right triangles, graphing trigonometric functions, matrices, sequences and series, polar equations, and vectors. Students will need to provide their own graphing calculator.

AP CALCULUS AB (218/219) – ONE YEAR
Prerequisite: A "C" or better in Pre-Calculus or permission of the instructor.
EMIS: 110600
Grade: 11-12
Credit: 1.00
Fee: None; however students must provide their own graphing calculator
This course is designed to meet the objectives laid out in the Advanced Placement curriculum. Topics include limits of functions, differentiation, integration, and differential equations, and applications of those topics. Every student is required to take the AP Calculus exam at the end of the year. Students will need to purchase their own graphing calculator.

COLLEGE ALGEBRA (MTH1245) - ONE SEMESTER
Prerequisite: Successful completion of Algebra 2, admittance to Marion Technical College and a 22+ on the ACT math section, or three years of high school math, including Algebra 2, with a B or higher.
EMIS:
Grade: 11-12
Credit: 1.0
College Credit Plus: MTH1245 - 3 semester hours from Marion Technical College
College Algebra emphasizes the use of algebra and functions in problem solving and modeling. Appropriate use of technology and applying mathematics to real-world situations is emphasized. Topics include relations, functions, graphs, polynomial functions, rational functions, exponentials, logarithms, and systems of equations.

CollegeCredit PLUS

STATISTICS (MTH1240) - ONE SEMESTER
Prerequisite: Successful completion of Algebra 2; admittance to Marion Technical College and a 18+ on the ACT math section or 3 years of high school math, including Algebra 2, with a B or higher.
EMIS: 119550
Grade: 11-12

Credit: 1.0 for College Credit; 0.5 for high school credit only
College Credit Plus: MTH1240 - 3 semester hours from Marion Technical College (if student qualifies)
Statistics is an introduction to descriptive and inferential statistical methods including sampling, probability, point and interval estimation, hypothesis testing, and regression. Real data and appropriate technology will be used.

Science

Suggested sequence of courses:

9th grade	Biology
10th grade	Chemistry or Physical Science
11th grade	Environmental Science, Chemistry, AP Biology, AP Chemistry*, or Physics
12th grade	Environmental Science, Chemistry, AP Biology, AP Chemistry*, Physics

AP Chemistry is offered every other year; AP Chemistry will be taught in 2024-2025.

BIOLOGY (300/301) – ONE YEAR
Prerequisite: none
EMIS: 132230
Credit: 1.00
Grade: 9
Fee: $18.00 Lab Fee (Lab glasses included)
This course utilizes a cellular approach used to study interactions of living organisms. Organisms (microorganisms, plants, invertebrates, and vertebrates) are studied on the bases of cells, genetics, and evolution. Students are required to participate in laboratory activities. This course meets Ohio's graduation requirement for a credit of a biological science.

HONORS BIOLOGY (302/303) – ONE YEAR
Prerequisite: 8th grade recommendation
EMIS: 132230
Credit: 1.00
Grade: 9
Fee: $18.00 Lab Fee (Lab glasses included)
This course utilizes a cellular approach to study interactions of living organisms. Organisms (microorganisms, plants, invertebrates, and vertebrates) are studied on the bases of cells, genetics, and evolution. Students are required to participate in laboratory activities. This course meets Ohio's graduation requirement for a credit of a biological science.

PHYSICAL SCIENCE (304/305) – ONE YEAR
Prerequisite: none
EMIS: 132220
Credit: 1.00
Grade: 10
Fee: $10.00 Lab Fee and a basic calculator

The goal of this course is to give the high school student a general introduction to chemistry and physics. Topics include an introduction to basic lab skills, overview of motion, energy interactions, and properties of matter. Students will need a basic calculator. This course meets Ohio's graduation requirement for a credit of physical science.

CHEMISTRY (306/307) – ONE YEAR

Prerequisite: successful completion of Algebra 1. Biology recommended.
Credit: 1.00
Grade: 10-12
Fee: $15.00 Lab Fee; scientific calculator
This course is an inquiry-based introduction to general chemistry. Topics covered include properties of matter, chemical formulas, chemical reactions, atomic structure, periodic laws, and solutions. Emphasis is placed on using particle models to interpret observable conditions, scientific ways of knowing, and basic laboratory skills. A composition-style notebook and scientific calculator are required. This course meets Ohio's graduation requirement for a credit of physical science.

ENVIRONMENTAL SCIENCE (308/309) – ONE YEAR

Prerequisite: Junior standing; completion of biology and chemistry or physical science
EMIS: 132350
Credit: 1.00
Grade: 11-12
Fee: $10.00 Lab Fee
Environmental Science provides an overview of the nature of ecosystems, energy flow, and the relationships of biology, geology, and chemical cycles. Students will explore issues in population studies, environmental pollution, and the organization and dynamics of ecological communities.

ADVANCED PLACEMENT (AP) BIOLOGY (310/311) – ONE YEAR

Prerequisite: Passed Biology with a "C" or better and have successfully completed Chemistry.
EMIS: 132230
Credit: 1.00
Grade: 11 –12
Fee: $25.00 Lab Fee; scientific calculator required.
This course is a more in-depth study of life processes, genetics, bacteriology, anatomy, and physiology than was covered in biology. This course will emphasize independent work and research skills. Works of both fiction and nonfiction will be used to illustrate scientific principles. Students will participate in AP required laboratory activities. Students are required to take the AP Exam in May.

PHYSICS (312/313) – ONE YEAR

Prerequisite: successful completion of Geometry; sophomore standing
EMIS: 130302
Credit: 1.00
Grade: 10 –12
Fee: $10.00 Lab Fee; scientific calculator required
This course provides an introduction to a wide range of physics topics. Emphasis will be placed on using laboratory experiences to empirically explore motion, forces, energy, momentum, waves, sound, electricity, magnetism and light. Some students may be also eligible to earn 5 college credit semester hours for this course. A lab notebook will be provided. A scientific calculator is required.

ADVANCED PLACEMENT (AP) CHEMISTRY (314-315) – ONE YEAR - offered every other year; will not be offered in 2023-2024; offered in 2024-25.

Prerequisite: mastered Chemistry and Physics; approval of previous science teacher
EMIS: 132326
Credit: 1.00
Grade: 11-12
Fee: $15.00 Lab Fee; scientific calculator
This is an advanced placement course designed to prepare the student for the AP Chemistry exam and to be the equivalent of the two semester general chemistry course typically taken in the first year of college. AP Chemistry is a rigorous math-based course, with a strong laboratory component. Students will develop their ability to incorporate mathematical skills in the solution of chemistry problems, both through the use of textbook problems and laboratory activities, and to keep a thorough and

accurate ongoing laboratory notebook. A composition-style notebook and scientific calculator are required; students may use the same lab notebook they used in CP Chemistry.

INTRO TO ANATOMY & PHYSIOLOGY (320) – ONE SEMESTER
Prerequisite: Biology with a "C" or better and junior status
EMIS: 13998
Credit: 0.50
Grades: 11-12
Fee: $15.00 Lab Fee
This class is recommended for anyone who is considering a career in the medical field. The class will concentrate on cells, tissues, organs, body systems, how they function, and the terminology necessary to communicate about the body and its structures. Readings will be required as well as dissections.

INTRO TO ASTRONOMY (321) - ONE SEMESTER
Prerequisite: successful completion of Geometry and junior status
EMIS: 139998
Credit: 0.50
Grades: 11-12
Lab Fee: $10.00
Astronomy introduces you to the composition and structure of the universe. Astronomy is the scientific study of the contents of the entire Universe. This course provides the student with a study of the universe and the conditions, properties, and motions of bodies in space. The content includes, but is not limited to, historical astronomy, astronomical instruments, the celestial sphere, the solar system, the earth as a system in space, the earth/moon system, the sun as a star, and stars.

Social Studies

WORLD HISTORY (400/401) – ONE YEAR
Prerequisite: none
EMIS: 150890
Credit: 1.00
Grade: 9
This course is a thematic and chronological survey of world history from The Age of Enlightenment to the present day. Emphasis is placed on revolution and change and the development of governmental, economic, and social systems. Students will be introduced to the forces that shaped the modern world such as the Enlightenment, the Industrial Revolution, the French Revolution, European Imperialism and Colonialism, the Russian Communist Revolution, the World Wars, Cold War, and post-Cold War Era. Throughout the year, we will examine modern world issues and study their origins in the subjects of our curriculum.

U.S. HISTORY (404/405) – ONE YEAR
Prerequisite: Sophomore standing
EMIS: 150810
Credit: 1.00
Grade: 10
This course is a chronological survey of the 20th Century U.S. History from the Age of Imperialism to the present. Emphasis will be placed on the attitudes and values of the modern United States and the forces which have shaped the United States. Emphasis will be placed on the effects of Industrialization, the Progress Movement, American Imperialism, the depression, the Cold War and all of the other conflicts of the 20th Century. Students will be exposed to how these events shaped the political and economic development of the world. Skills will be developed in analyzing world events and the reading of maps and graphs. This course can be counted towards the Citizenship Diploma Seal.

GOVERNMENT (408/409) – ONE YEAR
Prerequisite: completion of US History
EMIS: 150300
Credit: 1.00
Grade: 11 –12

This course is a study of the US Constitution, the three branches of the government, and the economy and how they influence our society. Special attention will be given to current issues as we discuss how they affect our daily lives. This course can be counted towards the Citizenship Diploma Seal.

EARLY AMERICAN HISTORY (HST1500) - ONE SEMESTER (3 college semester hours).
Prerequisite: Acceptance to Marion Technical College
EMIS: 150810
Credit: 1.0
Grade: 10 –12
College Credit Plus: 3 semester hours via Marion Technical College; Ohio Transfer Module and TAG Assured (HST1500)
This course is an introduction to the political, social, and cultural development of the American nation. HST1500 studies American civilization from the Age of Exploration through the Civil War. In addition, this course will focus on central themes and issues noted in the growth of the U.S. with the enduring theme being Life in Early America. The student will be asked to read supplementary analyses and critiques, and apply historical issues to modern topics. HST1500 will investigate the various dreams held by early Americans for the new nation and how these notions are interpreted by contemporary historians.
This course meets the US History graduation requirement.

MODERN AMERICAN HISTORY (HST1510) - ONE SEMESTER (3 college semester hours)
Prerequisite: acceptance to Marion Technical College
EMIS: 150810
Credit: 1.0
Grade: 10 –12
College Credit Plus: 3 semester hours via Marion Technical College; Ohio Transfer Module and TAG Assured (HST1600)
This history course is an introduction to the political, economic, and social (with an emphasis on race, gender, and class) development of the American nation starting with Reconstruction. The primary objectives of this course are to develop your skills as a critical reader and provide you with fundamental knowledge about the events, people and institutions that have influenced and created America. We will examine how the perceptions of freedom and equality shifted and thus shaped American History. In addition, the course will investigate the various dreams Americans had as the nation progressed and how these are interpreted by contemporary historians. Key topics include the rise of industrialism and capitalism, the impact of immigration and urbanization, the rise of the US as a global power (including foreign relations) and how populism, civil rights and feminism shaped our culture, political and social institutions. This course meets the US History graduation requirement.

CURRENT EVENTS (421) – ONE SEMESTER
Prerequisite: none
EMIS: 152150
Grade: 9-12
This class will focus on contemporary topics, such as the global war on terrorism, domestic politics, economics and other topics of interest for the current day. Social Studies content standards will be reinforced.

GLOBAL STUDIES (422) - ONE SEMESTER
Prerequisite: none
EMIS: 150700
Grade: 10-12
This one semester course builds on students' understanding of geography, spatial thinking, and world cultures. Contemporary world issues are explored through the lens of geography. In addition to understanding where physical and cultural features are located and why those features are located as they are, students examine the implications of these spatial arrangements.

PRESIDENTIAL HISTORY (420) - ONE SEMESTER
Prerequisite: none
EMIS: 159999
Grade: 10-12
This course will survey the history of the presidency and Washington, D.C.. It will include past and present presidential administrations and those individuals who have held the highest office in the land.

AMERICAN POP CULTURE (427) - ONE SEMESTER
Prerequisite: grades 10-12
EMIS: 159999
Grade: 10-12
Credit: 0.50
This course will examine the role of pop culture on American society throughout modern history to the present day. Students will be expected to research various elements of pop culture over time - including mass media, music, visual art, literature, theater, film, radio, TV, sports, fashion and advertising - and analyze how they emerged as responses to a variety of social, cultural, economic and political influences. Each unit will include a brief overview of the significant historical developments of the time period. Media will be consumed in full class, small group, and independent settings. Students are expected to have earbuds/headphones, expected to participate in class discussions, create projects from their research and deliver presentations. This course will count as a half-credit towards the Fine/Performing Arts Diploma Seal.

Special Topics in History: ***The classes below will be taught in a two-year rotating sequence over four topics in history. Each class will cover a specific period and region. Students will learn the basic historiography of the specified period including the basic chronology of events and major social, political, and cultural concepts. See the course descriptions below. Classes are elective classes and will not count towards social studies requirements for graduation. However, it will count as an extra social studies credit towards the Honors Diploma.***

WORLD WAR II (424) – ONE SEMESTER (Offered in 2023-24; not offered in 2024-25)
Prerequisite: none
Credit: 0.50
Grade: 10-12
Quality Points: 1.0
Class Type: college prep, general
This class is an in-depth chronological survey of the Second World War focusing on both the European and Asiatic theaters of the war. Special emphasis will be placed on the role of strategy, leadership, and technology in the war.

CLASSICAL CIVILIZATIONS (423) – ONE SEMESTER (NOTE: offered in 2023-2024– not offered in 2024-25)
Prerequisite: none; world history recommended
Grade: 10-12
Class type: college prep, general
This class will focus on the history of the classical cultures of Greece and Rome focusing on the enduring contributions of those cultures to modern western civilization.

MEDIEVAL EUROPE (426) – ONE SEMESTER (note: this course will not be offered in 2023-24 and will only be offered every other year)
Prerequisite: none
Grade: 10-12
Class type: college prep, general
This class will focus on European history from the fall of Rome through the beginning of the Renaissance.

CONTEMPORARY U.S. HISTORY (425) – ONE SEMESTER (note: this course will not be offered in 2023-24 and will only be offered every other year)
Prerequisite: none
Grade: 10-12
Class type: college prep, general
This class will focus on US History from the turn of the century focusing on contemporary topics, such as the global war on terrorism, domestic politics and economics and other topics of interest for the 21st century.

Miscellaneous Classes

CREDIT RECOVERY (920/921)
Prerequisite: Principal or Counselor placement only
Credits: amount varies
Grade: 10-12
Credit Recovery is a program to help students make up credits. Students will take the curriculum via online. The credit recovery program is limited to 10-20 students at a time. Placement is made by the Principals and the Counselor with priority given to older students. Students are expected to complete the work in a timely manner; otherwise they may be removed from the program at the discretion of the principals or counselor.

ACT Prep (910) - One Semester
Prerequisite: Sophomore standing
Credit: 0.25 per semester / graded on Pass/Fail
Grade: 10-12
Course Fee: $75.00
This course is designed to prepare students for ACT testing. Testing strategies will be discussed as well as various content for the English, Reading, Math, and Science sections of the test. This course may not be taught five days a week; some of the days will be used as a study hall. English and math teachers will rotate through the class. Students are required to take the ACT per the state of Ohio in the spring of their junior year. This course can be repeated. This course does not count as one of the five minimum credits needed for the senior year or towards athletic eligibility.

COMPUTER GRAPHICS / YEARBOOK (180-181) - ONE YEAR
Prerequisite: Sophomore standing
EMIS: 290150
Credit: 1.00
Grade: 10-12
Course Fee: None
Students in this class will create the upcoming year's CAT TALES yearbook. Students will learn about desktop publishing and design as they develop artistic, journalistic, photographic and writing skills in creating designed yearbook pages. Students will also learn about the business aspects of yearbook publishing as they determine the budget and finance the book through advertising and subscription sales. Grades are based on yearbook page design and completion, class attendance, and participation and deadlines. Leadership, participation, initiative, and strong attendance are all attributes of a powerful yearbook staff. This course may be repeated for credit.

Ohio | Department of Education

Ohio High School Honors Diploma

Criterion	Ohio Diploma	Academic Honors Diploma	International Baccalaureate Honors Diploma	Career Tech Honors Diploma	STEM Honors Diploma	Arts Honors Diploma (includes dance, drama/theatre, music, and visual art)	Social Science & Civic Engagement Honors Diploma
Math	4 units, must include one unit of algebra II or equivalent	4 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content	4 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content	4 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content	5 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content[4]	4 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content	4 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content
Science	3 units	4 units, including two units of advanced science[2]	4 units, biology, chemistry, and at least one additional advance science[2]	4 units, including two units of advanced science[2]	5 units, including two units of advanced science[2]	3 units, including one unit of advanced science[2]	3 units, including one unit of advanced science[2]
Social Studies	3 units	4 units	4 units	4 units	3 units	3 units	5 units
World Languages	N/A	3 units of one world language, or no less than 2 units of each of two world languages studied	4 units minimum, with at least 2 units in each language studied	2 units of one world language studied	3 units of one world language, or no less than 2 units of each of two world languages studied	3 units of one world language, or no less than 2 units of each of two world languages studied	3 units of one world language, or no less than 2 units of each of two world languages studied
Fine Arts	2 Semesters	1 unit	1 unit	N/A	1 unit	4 units	1 unit
Electives	5 units	N/A	N/A	4 units of Career-Technical minimum[3]	2 units with a focus in STEM courses	2 units with a focus in fine arts course work	3 units with a focus in social sciences and/or civics
GPA	N/A	3.5 on a 4.0 scale	3.5 on a 4.0 scale	3.5 on 4.0 scale	3.5 on a 4.0 scale	3.5 on a 4.0 scale	3.5 on a 4.0 scale
ACT/SAT/ WorkKeys[1]	N/A	27 ACT/1280 SAT[8]	27 ACT/1280 SAT[8]	27 ACT/1280 SAT[8]/WorkKeys (6 Reading for Information & 6 Applied Mathematics)[7]	27 ACT/1280 SAT[8]	27 ACT/1280 SAT[8]	27 ACT/1280 SAT[8]
Field Experience	N/A	N/A	Complete a field experience and document the experience in a portfolio specific to the student's area of focus[5]	Complete a field experience and document the experience in a portfolio specific to the student's area of focus[5]	Complete a field experience and document the experience in a portfolio specific to the student's area of focus[5]	Complete a field experience and document the experience in a portfolio specific to the student's area of focus[5]	Complete a field experience and document the experience in a portfolio specific to the student's area of focus[5]
Portfolio	N/A	N/A	Develop a comprehensive portfolio of work based on the student's field experience or a topic related to the student's area of focus that is reviewed and validated by external experts[6]	Develop a comprehensive portfolio of work based on the student's field experience or a topic related to the student's area of focus that is reviewed and validated by external experts[6]	Develop a comprehensive portfolio of work based on the student's field experience or a topic that is related to the student's area of focus that is reviewed and validated by external experts[6]	Develop a comprehensive portfolio of work based on the student's field experience or a topic that is related to the student's area of focus that is reviewed and validated by external experts[6]	Develop a comprehensive portfolio of work based on the student's field experience or a topic that is related to the student's area of focus that is reviewed and validated by external experts[6]
Additional Assessments	N/A	N/A	N/A	Earn an industry-recognized credential or achieve proficiency benchmark for appropriate Ohio Career-Technical Competency Assessment or equivalent	N/A	N/A	N/A

NOTE: Items shaded in blue are changes that were made to the honors diploma system, including the entire STEM, Arts, and Social Science and Civic Engagement Honors Diplomas

1/24/17

Ohio | Department of Education

Ohio High School Honors Diploma

NOTES:

For the Academic, International Baccalaureate, and Career Tech Honors Diplomas, students who entered the ninth grade between July 1, 2013 and June 30, 2017 may choose to pursue the diploma by meeting the requirements of these criteria or the previous criteria. Students entering the ninth grade on or after July 1, 2017 must meet these criteria.

Completion of any advanced standing program, which includes Advanced Placement, International Baccalaureate, College Credit Plus, and may include Credit Flexibility, can be counted toward the unit requirements of an Honors Diploma.

Students must meet all but one of the criteria to qualify for an Honors Diploma, and any one of the criteria may be the one that is not met.

Diploma with Honors requirements pre-suppose the completion of all high school diploma requirements in the Ohio Revised Code including:

½ unit physical education (unless exempted), ½ unit health, ½ unit in American history, ½ unit in government, and 4 units in English. The class of 2021 and beyond will need to have ½ unit in world history and civilizations as well.

[1] Writing sections of either standardized test should not be included in the calculation of this score. The Locating Information test is not included in the calculation of the WorkKeys score.

[2] Advanced science refers to courses that are inquiry-based with laboratory experiences and align with the 11/12th grade standards (or above) or with an AP science course, or with an entry-level college course (clearly preparing students for a college freshman-level science class, such as anatomy, botany, or astronomy).

[3] Program must lead to an industry recognized credential, apprenticeship, or be part of an articulated career pathway which can lead to post-secondary credit.

[4] The fifth mathematics and science credit for the STEM honors diploma may be fulfilled with a single course.

[5] Field Experience refers to experiential learning in either an internship or apprenticeship. Students will document their experiences by describing their understanding in a portfolio.

[6] The student portfolio is a collection of experiential learning and competencies based on the student's field experiences. Students will engage with professionals or scholars in the field while developing their own portfolio or ePortfolio of original work that documents their technical, critical and creative skills representative of their honors focus; students' work must be reviewed and evaluated by scholars or professionals within the field/area of study in which the students' work is focused, and the scholars or professionals must be external to the district staff; students will give a presentation to showcase the work and provide an analysis of it to the school and local community. If the student does not complete a field experience, the portfolio can be based on a collection of work related to the student's honors diploma area of focus.

[7] Students must score a minimum of a 6 on the Applied Mathematics WorkKeys Assessment and a minimum of 6 on the Reading for Information WorkKeys Assessment in order to meet the WorkKeys score requirement. The WorkKeys option applies only to the Career Tech Honors Diploma.

[8] These scores are based on the 2016 ACT and SAT assessments. Concordance tables outlining equivalent scores for past and future tests that differ from the 2016 versions will be published on the ODE website. Tables to concord SAT assessments taken prior to March 2016 can be found here. Further information on test concordance can be found here.

FAQ

Your Future:
You can go anywhere you want and get there faster by choosing Tri-Rivers!

Questions? Here are answers to some of the most Frequently Asked Questions

Am I eligible to attend Tri-Rivers?
Yes, if you have at least 6 core credits for a Level 1 program or 3 core credits for Construction 10.

Can I still participate in my associate school activities such as athletics, band, pep assemblies, cheerleading, etc.?
Of course. In fact we encourage you to remain active in your home school activities.

How do I get to Tri-Rivers?
Bus transportation from your associate school is usually available each day Tri-Rivers is in session. You may drive to school providing you secure a parking permit from Tri-Rivers.

What does it cost to attend Tri-Rivers?
There is no tuition. There is a cost for uniforms. Some programs require background checks and health physicals.

What would my daily schedule be like at Tri-Rivers?
In general, you would have three academic classes—English, math, & science or a social studies class—along with lunch for half of the day. The other half of the day, you will be in your career tech program.

Will I get a good quality education if I attend Tri-Rivers?
The quality of your education is directly dependent upon how much effort you put into it. Tri-Rivers instructors are professionals in their respective skill areas and the equipment you train on is advanced and up to date. Our academic instructors are designated *Highly Qualified Teachers* under the Ohio Department of Education's criteria.

How many credits will I receive while attending Tri-Rivers?
Full-time Tri-Rivers students receive 7 credits per year, which are distributed among your career program and academics.

As a college-bound student, can I attend college while attending Tri-Rivers?
Yes. Many of our eligible students take college classes either at Tri-Rivers or on the college campus through the College Credit Plus (CCP) program.

Can I attend college after graduation if I attend Tri-Rivers?
You certainly can! Many colleges in Ohio grant college credit for the career program completed at Tri-Rivers. Eligible students at Tri-Rivers may also participate in College Credit Plus (CCP).

Can I earn industry-recognized credentials to fulfill one of the graduation pathways?
Yes, students have the opportunity to earn valuable industry credentials that can be used to help fulfill graduation and employment requirements.

Am I still eligible for college scholarships if I attend Tri-Rivers?
Yes. In fact, you might be eligible for even more scholarships by attending the Career Center! This is because you would be considered for both your home school scholarships and also Tri-Rivers scholarships. The guidance offices in both your associate school and at Tri-Rivers work together to provide information on scholarships and the FAFSA.

I want to enter the military after completing high school. Should I stay at my associate school or go to Tri-Rivers?
Some Tri-Rivers students find that by having career skill training they are eligible for promotion to higher ranks after completion of basic training. This promotion means more money!

I need to pass Ohio's State Tests (OST); Can I take the tests at Tri-Rivers?
Yes, Tri-Rivers is an OST test site in the fall and spring.

Can I attend Tri-Rivers and work half days?
As a senior you may have the option of participating in an Advanced Placement program during your senior year. Apprenticeship and Job Shadowing opportunities are also available in several programs.

Why shouldn't I stay at my associate school, take general courses and go to work after I graduate?
Statistics show that Career Center graduates are much more successful in finding jobs, earn more money, and have lower unemployment rates than non-career center graduates. The days of the unskilled, untrained person finding a good, high-paying job are over. Most good jobs today require skills training.

How do I apply?
You must complete an online application in order to be admitted. Visit www.tririvers.com. Every attempt will be made to accommodate your program request. Since some programs fill up fast, it is important to apply early!

Do I need credit in certain courses before I can attend Tri-Rivers?
Ideally students should have credit in the following courses before attending Tri-Rivers:
English...2 credits
Social Studies...2 credits
Health...1/2 credit
Math...2 credits—(Must include Algebra)
Physical Education...1/2 credit
Science...2 credits, especially Biology
Electives...1 or 2 credits

Our Admissions & Recruitment Coordinator Courtney Murphy is available to answer questions.
cmurphy@tririvers.com
or 740-389-8522

www.tririvers.com

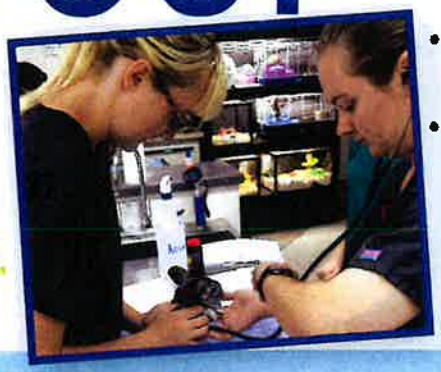
Tri-Rivers CAREER CENTER

#TRCCYouBelongHere

Tri-Rivers Career Center affirms that equal opportunities are offered without regard to race, color, religion, sex, military status, national origin disability, age, and ancestry of person.

Which CAREER is for YOU?

Explore the possibilities. Make your dreams a reality.



AGRICULTURAL SCIENCES

Veterinary Science

- Work directly with large, small, and exotic animals in a learning lab environment
- Learn about animal nutrition, health, reproduction, anatomy & physiology, grooming and first aid
- Gain veterinary assisting skills necessary to communicate with animal owners

ARTS & COMMUNICATIONS

Interactive Media

- Design cutting edge multi-media productions using editing, directing and scriptwriting skills
- Use your creativity with After Effects, Animate, Photoshop, Adobe Illustrator & Premiere Pro
- Create illustrations, motion graphics, logos, photos, and traditional art for dynamic marketing campaigns

HUMAN SERVICES

Culinary Arts

- Work with a certified chef to create professional foods, cakes and pastries with an artistic presentation
- Plan, prepare and serve meals for upscale events and casual dining
- Work in all stages of our student-run restaurant, C.C. Bistro; coffee shop, C.C. Beans; & pastry shop, C.C. Buns

HUMAN SERVICES

Cosmetology

- Work in a state-of-the-art salon—Total Reflections
- Evaluate, recommend and create hair designs to exceed client expectations
- Use advanced techniques to deliver a wide-range of skin care and nail treatments

Esthetics (Skin Care)

- Work in a state-of-the-art salon—Total Reflections
- Perform facial treatments, hair removal, lash and brow tint and apply makeup to enhance a person's overall appearance

Nail Tech (Senior Only Program)

- Work in a state-of-the-art salon—Total Reflections
- Learn to do manicures, pedicures, artificial nails and hand/foot massage treatments
- Create artistic nail designs, advanced polish applications & nail extension techniques
- Connect with clients through excellent customer service

HEALTH SCIENCE

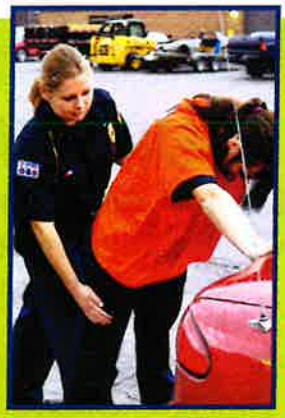
Health Careers Academy

- Explore a wide range of medical careers through practical lab experiences, clinicals, and related coursework
- Develop professional work ethic, communication, medical, and patient/client care skills
- Focus on Patient Care Assisting & Medical Assisting

Exercise Science & Sports Medicine

- Explore a wide range of exercise science, sports medicine, nutrition, wellness, and physical therapy careers in a new state of the art lab and sports complex
- Work with professionals to gain experience in sports medicine, exercise science, athletic training, physical therapy, occupational therapy and therapeutic exercise
- Prevent and heal injuries using techniques based on anatomy & physiology principles

LAW & PUBLIC SAFETY



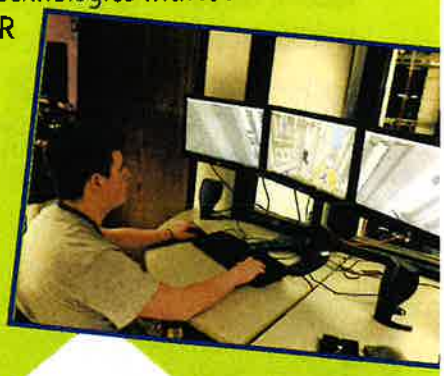
Criminal Justice

- Develop the mind and body through a physical fitness regimen and defensive tactics training
- Use current computer programs, technology, and methods for the identification and management of the criminal population
- Use investigative techniques to solve crimes and to mediate terrorist attacks

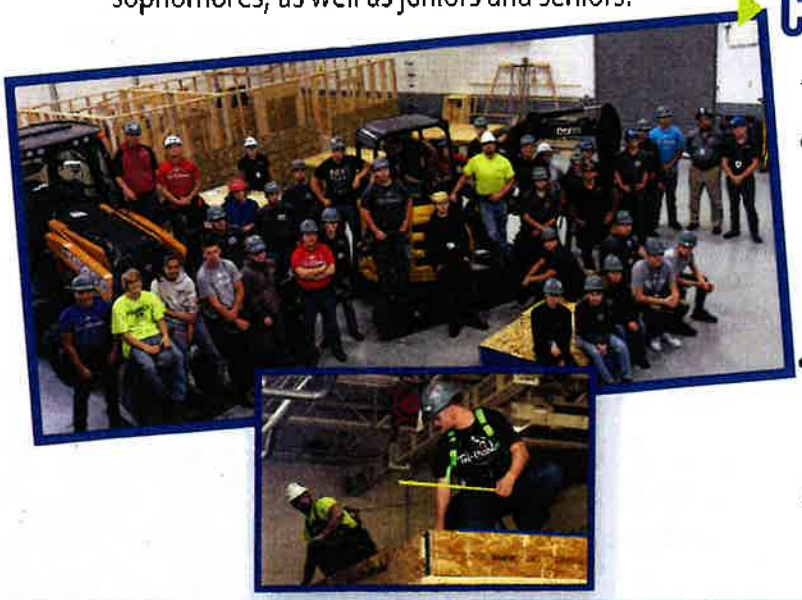
COMPUTER ENGINEERING

Computer Networking Electronics Technologies (CNET)

- Explore & learn new technologies with IoT (Internet of Things), AR (Augmented Reality), ProGaming, Robotics, Raspberry Pi's
- Design, install, implement, and repair networks
- Build, troubleshoot, upgrade, and repair computers



*Construction Trades Academy is also open to sophomores, as well as juniors and seniors.



CONSTRUCTION TECHNOLOGIES

* Construction Trades Academy

- Multi-Trade—Work in all aspects of construction and related careers, including: estimating, wood & commercial metal framing, roofing, interior finishing, masonry concrete form work, electrical, heavy equipment, concrete place and finish
- Interpret blueprints and specifications to build commercial metal framing & residential wood framing structures
- Operate heavy equipment in a construction setting

Look forward to school. Make the most of your high school experience by learning in a field of interest

Visit www.tririvers.com for more details

TRI-RIVERS students are academically prepared for **COLLEGE** and a **CAREER.**

ADVANCED MANUFACTURING, ROBOTICS, & AUTOMATION/WELDING/ENGINEERING SCIENCE TECHNOLOGIES—PROGRAMS AT TRI-RIVERS' RAMTEC

Engineering Technologies @ RAMTEC

- Envision, design, and sketch real life concepts using Solidworks 3D CAD Solid Modeling Software
- Graduate with industry recognized certifications for completing FANUC, Yaskawa Motoman, and Solidworks
- Design and program robotics & automation projects to compete in the FANUC Challenge, SME PRIME, SKillsUSA, and National Robotics Challenge

Welding @ RAMTEC

- Use advanced welding techniques—including FANUC robotic welding—to design, engineer, build and troubleshoot complex manufacturing solutions

- Interpret blueprints and specifications using math and critical thinking
- Develop the confidence, work ethic, and stamina necessary for a high-tech career in fabrication

HUMAN SERVICES

C.E.I. (Career Experience for Independence)

- Explore various career fields of interest, as well as employability skills
- Gain job specific works skills, interpersonal relationships, socialization at work, and employer expectations
- Work in hospitality, food prep, a greenhouse, office setting, as well as community job experience at Kingston Assisted Living Facility, Goodwill Retail Center and Meijer

TRANSPORTATION SYSTEMS

Automotive Technology

- Diagnose, service, and repair a wide-range of vehicles alongside a certified Master Technician
- Utilize advanced diagnostic equipment to troubleshoot and repair complex automotive systems
- Use problem solving skills while working on today's advanced computerized automotive systems

AG & ENVIRONMENTAL SYSTEMS

Ag & Industrial Power Technology

- Learn the fundamentals of Outdoor Power Equipment
- Service, troubleshoot, repair and overhaul diesel and gas machinery, equipment, and small engines
- Diagnose, repair & operate modern agricultural and heavy construction equipment
- Work on hydraulics, electronic systems, and fuel systems

North Union High School
Four Year Planner for the Class of 2021 and Beyond

Name _____
Student ID _____

Graduation Requirements	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES	HEALTH	PHYSICAL EDUCATION	FINE ARTS	CAREER CLASS	ELECTIVES
23 Credits	4.0	4.0	3.0	3.0	0.5	0.5(2 classes)	1.0	0.5	6.5
		Mathematics units must include one unit of algebra II or the equivalent of algebra II. Students in an approved career-tech program may waive the Algebra II requirement.	*Science units must include one unit of physical sciences, one unit of life sciences and one unit of advanced study in one or more of the following sciences: chemistry, physics or other physical science; advanced biology or other life science.*	*including one unit each of World Studies, American History, and American Government.*		*Physical education - Students who participate in interscholastic athletics, marching band or cheerleading for two full seasons may waive the physical education requirement.*	*Unless participates in a Career-Tech Program; however must have two semesters between grades 7-12*	*All students must receive instruction in economics and financial literacy during grades 9-12. This class fulfills the financial literacy requirement.*	*Elective credits must include one or any combination of foreign language, fine arts, business, career-technical education, technology, agricultural education or English language arts, mathematics, science or social studies courses not otherwise required. At least two years of foreign language required for 4 year college admission.*
8th Grade Cumulative Credits: _____									
9th Grade Cumulative Credits: _____									
10th Grade Cumulative Credits: _____									
11th Grade Cumulative Credits: _____									
12th Grade Cumulative Credits: _____									

Students must meet the state testing requirement for Ohio.