Utica High School
Course Selection Guide

Utica High School
260 Jefferson Street
P.O. Box 677
Utica, Ohio 43080

Revised 2/2024

North Fork School District Vision Statement

"Provide and inspire achievement and accountability that maximizes quality learning"

Course selection is among the most important choices that our students will make during the course of their high school career. College and career paths begin here, and the foundation is laid for future success.

For 8th graders and freshmen, course selection is largely a process of finding elective courses that meet student interest and aptitude. For 10th and 11th graders, scheduling courses that meet the needs of their future plans is most important.

Rigorous course taking is among the best things a student can do to prepare for college! Neither the junior or senior years are the time to coast to the finish line. Students should take advantage of our Advanced Placement and College Credit Plus classes.

Our school counselors stand ready to assist students in making great decisions that will benefit their future.

FOR PARENTS:

Have a discussion with your student about their future, including what kind of post-secondary education they might want or need for their career. We have information that can help you have that conversation! You should also talk about how they have liked or disliked the high school courses they've taken, as that can indicate aptitude for college study as well. Communication is the key!

FOR STUDENTS:

High school is a time for learning. Take advantage of the opportunities available to you at UHS! Talk to your teachers and your school counselors about course selection, and even more importantly, talk to your parents about your career and post-secondary aspirations. We want to help you succeed.

UHS operates on a 10-period day. All students must register for a minimum of 8 periods of classes, per semester.

Counseling Office

Website: http://www.northfork.k12.oh.us/GuidanceOffice.aspx

Dinah Rice (Grades 8-9)
(740) 892-2855 ext. 2012
drice@northfork.k12.oh.us

Taylor Piatak (Grades 10-12)
(740) 892-2855 ext. 2011
tpiatak@northfork.k12.oh.us

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General Information

Course Credit

All final student grades for courses will be calculated with the grade scale and as follows: Course credit will be issued on a full-year basis rather than by semester for year-long courses. This means that students will not receive credit for one semester in a year-long course. They must pass the class for the year in order to receive credit for the course. If a student fails the course, he/she must repeat the entire course, not just the semester he/she may have failed.

Drop/Add Courses

Students who would like to change their schedule should speak with their counselor before the semester begins. Schedule changes will be made for students if there is an error on their schedule (missing class period, assigned two classes at the same time, etc). Counselors will change schedules during the first five days of a new semester if they were not done before the semester began. Students who choose to drop a class after this time will receive a withdraw fail for the class.

Athletic Eligibility

All OHSAA (Ohio High School Athletic Association) regulations regarding academic eligibility shall be followed. The athletic director shall be responsible for checking and certifying the eligibility of all athletes. Students must pass 5 courses (excluding PE) for each grading period.

NCAA Eligibility

The National Collegiate Athletic Association (NCAA) has established rules relating to eligibility, recruiting, and financial aid for high school students wishing to become college athletes. There are three divisions of the NCAA – Division I, Division II, and Division III. Membership of colleges is based on the size and scope of the athletic program and the offering of athletic scholarships.

Interested high school athletes who plan to enroll in college as freshmen and wish to participate in Division I or Division II sports must be certified by the NCAA initial "Eligibility Clearinghouse." See your school counselor for further information and/or visit the NCAA official web site at www.eligibilitycenter.org for an on-line application or call their toll-free hotline at (877) 262-1492.

PE Waiver

Students who have participated in interscholastic athletics, marching band, bowling, or cheerleading for at least two (2) full seasons, while enrolled in grades 9 through 12, and as documented by the school counselor may be excused from the high school physical education requirement. Forms must be completed and submitted to the school counselor by **September 1st** of the school year the PE Waiver is beginning. Students electing such an excuse shall complete one-half (1/2) unit of at least 60 hours of instruction in another course of study that meets high school curriculum requirements.

Advanced Placement Classes

Advanced Placement (AP) Are you ready for a unique learning experience that will help you succeed in college? Through AP's college-level courses and exams, you can earn college credit and advance placement, stand out in the admission process, and learn from some of the most skilled, dedicated, and inspiring teachers in the world.

A Different Kind of Class
From the moment you enter an AP classroom, you'll notice the difference – in the teacher's approach to the subject, in the attitude of your classmates, in the way you start to think. In AP classrooms, the focus is not on memorizing facts and figures. Instead you'll engage in intense discussions, solve problems collaboratively, and learn to write clearly and persuasively.

Prepare to Succeed in College
AP courses can help you acquire the skills and habits you'll need to be successful in college. You'll improve your writing skills, sharpen your problem-solving abilities, and develop time management skills, discipline, and study habits.

Earn College Credit and Placement
Most four-year colleges in the United States and colleges in more than 60 other countries give students credit, advanced placement or both on the basis of AP Exam scores. By entering college with AP credits, you'll have the time to move into upper-level courses, pursue a double-major or study abroad.

College Credit Plus

The College Credit Plus program is open to students in grades 7-12. The program enables college qualified students to take college courses while in high school at a state supported college/university at no cost to the student for tuition, books, or fees. Students will be financially responsible for any course that is failed during the CCP program. There may also be costs associated with College Credit Plus at a private college or university should these institutions participate in the program. Students and parents must have attended an informational meeting, complete an intent to participate form by April 1, ***sign and turn in the UHS Rules & Regulations form,*** and must meet all college application requirements and deadlines. This is typically determined by an ACT or ACCUPLACER test score. To learn more, visit https://www.ohiohighered.org/ccp or see a school counselor!

College Visits

Juniors (1 excused day) and seniors (2 excused days) are allowed a specific number of days for college visitation. College visitation permission forms must be obtained in the counseling office or on the counseling website and submitted to the main office following the visit. The visitation days will not count against students' attendance records.

C-TEC Process

Sophomore students interested in applying to C-TEC need to do so by the end of January (the specific day varies each year). Applications are made available to students after Sophomore Hands On Day, which generally falls the last week of November or the first week of December. The C-TEC application must be submitted online through the C-TEC website. Students are required to submit a parent signature form to the counseling office to complete their application. Once the form is submitted to the counseling office, and official transcript and Counselor Recommendation will be uploaded. All applications must be completed by the first Friday in February. Students generally hear of acceptance during the week of Spring Break, directly from C-TEC.

Applications will be reviewed by C-TEC based on the following courses completed by the end of the sophomore year:
2 English credits
2 Math credits
2 Science credits
2 Social Studies credits

½ PE credit
½ High School 101 credit
½ Health credit
½ Financial Literacy credit

Core classes (such as 9th & 10th grade English, physical science & biological science, US history, & modern world history, and 2 credits of math) and required elective credits (physical education, health, high school 101, and financial literacy) must be completed prior to going to CTEC. If not, there will be a cost to the student/family for the student to earn the required credits.

Please note: Some C-TEC programs require a specific GPA. Please contact your counselor or C-TEC for more information. C-TEC also uses attendance and behavior to guide their acceptance process.

Students who choose to withdraw their application, need to contact C-TEC directly and will be required to have parental permission.

Weighted Academic Point System

It is recognized that some courses of study in our curriculum are much more difficult than others. Therefore, it is not our intent to penalize students who are taking a more challenging schedule, but to encourage them by using the following weighted system. College Credit Plus courses, which replace classes with weighted grades at Utica High School will be weighted in the calculation of student's GPA. The weighted system is determined by adding the following values:

System	Grade=Points	Classes
Regular Point System	A=4.0 B=3.0 C=2.0 D=1.0 F=0	***All Courses except those listed below***
.25 System	A=4.25 B=3.25 C=2.25 D=1.25 F=0	• Advanced English 9 • Advanced Geometry • Advanced English 10 • Advanced Biology • Advanced Algebra 2 • Chemistry
.5 System	A=4.5 B=3.5 C=2.5 D=1.5 F=0	▪ Advanced Anatomy/Physiology ▪ Advanced Chemistry ▪ Advanced Chemistry 2 ▪ Advanced Physics ▪ Pre-calculus ▪ Spanish III, IV, & V ▪ College Algebra (CCP) ▪ Intro to Statistics (CCP) ▪ Calculus (CCP)
1.0 System	A=5.0 B=4.0 C=3.0 D=2.0 F=0	▪ AP English Literature & Comp ▪ AP English Language & Comp ▪ AP Government

**It may be possible to take additional weighted courses through the College Credit Plus program. See your counselor if you have questions regarding CCP and weighted courses. For additional information, please visit https://www.ohiohighered.org/ccp/faqs

Graduation Requirements

Graduating Class of 2025

21.25 Total Credits

Course	*Total # of Credits*
English	4 Credits
Mathematics (must include 1 credit of Algebra II or equivalent)	4 Credits
Science: Including ▪ Physical Science (1 Credit) ▪ Biological Science (1 Credit)	3 Credits
Social Studies: Including ▪ Modern World History (1 Credit) ▪ U.S. History (1 Credit) ▪ Government (1 Credit) (Economic/Financial Literacy is covered in this course)	3 Credits
Physical Education (¼ Credit per semester)	½ Credit
Health	½ Credit
High School 101	½ Credit
Computer Technology	½ Credit
Electives: ▪ Students must complete 2 semesters of Fine Arts (Art, Band, Music, Choir, Yearbook) in grades 7-12 before graduation.	5 Credits
Service Learning (30 Hours)	¼ Credit

Testing Requirements:

English 10
Algebra I (Math 2)
Geometry (Math 3)
Biology
US History
Government

**Substitute Exams: Students may take exams for a course listed above if that student is taking an AP Exam (at UHS currently this would only include Government).

State Requirements:

1. **Demonstrate Competency** – Students must demonstrate competency in math and English by passing the state's Algebra 1 and English 2 tests. Students who have taken required tests more than once without passing and have received remedial supports are able to show competency through one of the options below:
    - Earn credit for one math and/or one English course through College Credit Plus
    - Demonstrate career readiness and technical skills through foundational and supporting options
    - Enter into a contract to enlist in the military upon graduation

2. **Preparation for College or Careers** – Students must earn two diploma seals, one of which must be state defined to demonstrate academic, technical and professional readiness for careers, college, the military, or self-sustaining professions.

State System of Diploma Seals	
OhioMeansJobs Readiness Seal	Honors Diploma Seal
State Seal of Biliteracy	Technology Seal
Industry-Recognized Credential Seal	Citizenship Seal
College-Ready Seal	Fine and Performing Arts Seal
Military Enlistment Seal	Student Engagement Seal
Science Seal	Community Service Seal

Information can be found on the Ohio Department of Education Website:
http://education.ohio.gov/getattachment/Topics/Ohio-s-Graduation-Requirements/Sections/Classes-of-2023-and-Beyond-Graduation-Requirements/GradReq2023.pdf.aspx?lang=en-US

Graduation Requirements

Graduating Class of 2026 and Beyond

21.25 Total Credits

Course	*Total # of Credits*
English	4 Credits
Mathematics (must include 1 credit of Algebra II or equivalent)	4 Credits
Science: Including ▪ Physical Science (1 Credit) ▪ Biological Science (1 Credit)	3 Credits
Social Studies: Including ▪ Modern World History (1 Credit) ▪ U.S. History (1 Credit) ▪ Government (1 Credit) (Economic/Financial Literacy is covered in this course)	3 Credits
Physical Education (¼ Credit per semester)	½ Credit
Health	½ Credit
High School 101	½ Credit
Financial Literacy	½ Credit
Electives: ▪ Students must complete 2 semesters of Fine Arts (Art, Band, Music, Choir, Yearbook) in grades 7-12 before graduation.	5 Credits
Service Learning (30 Hours)	¼ Credit

Testing Requirements:
English 10
Algebra I (Math 2)
Geometry (Math 3)
Biology
US History
Government

**Substitute Exams: Students may take exams for a course listed above if that student is taking an AP Exam (at UHS currently this would only include Government).

State Requirements:

3. **Demonstrate Competency** – Students must demonstrate competency in math and English by passing the state's Algebra 1 and English 2 tests. Students who have taken required tests more than once without passing and have received remedial supports are able to show competency through one of the options below:
    - Earn credit for one math and/or one English course through College Credit Plus
    - Demonstrate career readiness and technical skills through foundational and supporting options
    - Enter into a contract to enlist in the military upon graduation

4. **Preparation for College or Careers** – Students must earn two diploma seals, one of which must be state defined to demonstrate academic, technical and professional readiness for careers, college, the military, or self-sustaining professions.

State System of Diploma Seals	
OhioMeansJobs Readiness Seal	Honors Diploma Seal
State Seal of Biliteracy	Technology Seal
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Criteria for Ohio High School Academic Honors Diploma

Class of 2023-2025

Students must meet ***all but one*** of the following criteria, unless it is a minimum graduation requirement. Students must meet general graduation requirements to qualify for honors diplomas.

Criterion	Academic Honors Diploma
Math	**4 Units**, Algebra I, Geometry, Algebra II (or equivalent), and one other higher-level course
Science	**4 Units**, including two units of advanced science
Social Studies	**4 Units**
World Languages	**3 Units** of one world language, or no less than 2 Units of each of two world languages
Fine Arts	**1 Unit**
GPA	**3.5** on a 4.0 scale
ACT/SAT	27 ACT/ 1280 SAT

Class of 2026 and Beyond

Students must meet ***all but one*** of the following criteria, unless it is a minimum graduation requirement. Students must meet general graduation requirements to qualify for honors diplomas. ***Students may replace one requirement of either 4, 5 or 6 with a "Student Strength Demonstration."***

Criterion	Academic Honors Diploma
(1) Math	**4 Units**, Algebra I, Geometry, Algebra II (or equivalent), and one other higher-level course
(2) Science	**4 Units**, including two units of advanced science
(3) Social Studies	**4 Units**
(4) World Languages	**3 Units** of one world language, or no less than 2 Units of each of two world languages
(5) GPA	**3.5** on a 4.0 scale
(6) ACT/SAT	27 ACT/ 1280 SAT
(7) Seal Requirement	Earn two additional diploma seals, not including Honors Diploma Seal
(8) Experiential Learning	Field Experience, OhioMeansJobs Readiness Seal*, Portfolio or Work-Based Learning

*Students can use OMJ Readiness Seal in 2 additional seals requirement if it is not used in Experiential Learning.

Student Strength Demonstration Replacement

Students can use the Student Strength Demonstration to replace one of either the **ACT/SAT, GPA *or* World Language** requirement for any Honors Diploma.

Options**:**

- College Credit Plus - 12 total CCP credit hours
- Advance Placement - Three courses with score of 3 or higher on AP tests
- Career-Technical Assurance Guide (CTAG) - 12 total credits
- Apprenticeship/Pre-Apprenticeship - Completion or evidence of acceptance
- WorkKeys - Score of 6 or higher on all tests
- Armed Services Vocational Battery - Score of 50 or above on ASVAB
- Work-Based Learning - 250 total hours of work-based learning

UTICA HIGH SCHOOL
COURSE PLANNING
_____'s HIGH SCHOOL 4-YEAR PLAN

RECOMMENDED COURSES FOR EACH GRADE LEVEL

9th	10th	11th	12th	
SELECT ONE ENGLISH 9 ENGLISH 9 ADV	**SELECT ONE** ENGLISH 10 ENGLISH 10 ADV	**SELECT ONE** ENGLISH 11 ENGLISH 11 ADV	**SELECT ONE** ENGLISH 12 ENGLISH 12 ADV BOOKS ON FILM	**4 UNITS MINIMUM FOR GRADUATION**
SELECT ONE MATH I ALGEBRA I GEOMETRY GEOMETRY ADV	**SELECT ONE** MATH II GEOMETRY GEOMETRY ADV ALGEBRA II ALGEBRA II ADV	**SELECT ONE** MATH III GEOMETRY ALGEBRA II ALGEBRA II ADV PRE-CALCULUS COLLEGE ALGEBRA INTRO TO STATS	**SELECT ONE** FINANCIAL ALG TRANS TO COLLEGE MATH PRE-CALCULUS CALCULUS COLLEGE ALGEBRA INTRO TO STATS	**4 UNITS MINIMUM FOR GRADUATION**
SELECT ONE PHYSICAL SCIENCE BIOLOGY BIOLOGY ADV	**SELECT ONE** BIOLOGY BIOLOGY ADV CHEMISTRY CHEMISTRY ADV	**SELECT ONE** CHEMISTRY CHEMISTRY ADV CHEMISTRY 2 ADV PHYSICS ADV EARTH SCIENCE ENV SCIENCE ANATOMY ADV	**SELECT ONE** CHEMISTRY CHEMISTRY ADV CHEMISTRY 2 ADV PHYSICS ADV ANATOMY ADV ASTRONOMY ENV SCIENCE	**3 UNITS MINIMUM FOR GRADUATION**
+ US HISTORY	+ MOD WORLD HISTORY	**SELECT ONE** GOVERNMENT AP GOVERNMENT	**SELECT ONE** PSYCHOLOGY WORLD GEOGRAPHY HIST THROUGH FILM HISTORY OF SPORTS	**3 UNITS MINIMUM FOR GRADUATION**
FOREIGN LANGUAGE ELECTIVE	FOREIGN LANGUAGE ELECTIVE	FOREIGN LANGUAGE ELECTIVE	FOREIGN LANGUAGE ELECTIVE	**2 UNITS RECOMMENDED FOR COLLEGE ADMISSIONS**
+ PHYSICAL EDUCATION + HEALTH	+ PHYSICAL EDUCATION			**½ UNIT PE** **½ UNIT HEALTH NEEDED FOR GRADUATION**
+ HIGH SCHOOL 101				**½ UNIT FOR GRADUATION**
SELECT ONE SOFTWARE APPLICATIONS I (Graduating class of 2025)	FINANCIAL LITERACY (Graduating class of 2026 & beyond)			**½ UNIT OF COMPUTER TECH. NEEDED FOR GRADUATION (2025)** **½ UNIT OF FINANICAL LITERACY (2026 BEYOND)**
✓ ELECTIVE	✓ ELECTIVE	✓ ELECTIVE	✓ ELECTIVE	**5 UNITS FOR GRADUATION**
30 HOURS OF SERVICE LEARNING – MUST BE COMPLETED BY MAY 1 OF SENIOR YEAR				**0.25 UNITS MINIMUM FOR GRADUATION**

Utica High School
Course Descriptions

*** A specific course listed in the course guide may not be taught in a given year due to small numbers of students registering for the course, a lack of certified staff, or administrative decisions. Please check the scheduling sheet for available courses.**

Agricultural Education

Agriculture, Food and Natural Resources (530)	Agricultural and Environmental Systems Capstone (531)
Animal and Plant Science (533)	Natural Resources (536)
Business Management for Agricultural (537)	Science and Technology of Food (538)
Livestock Selection, Nutrition, and Management (540)	FFA Leadership (541)

Program Description

The Agricultural Education Program is much more than a class. Classroom instruction gives students the knowledge and skills they need for success in today's world, and students get a chance to practice and apply these knowledge and skills in their Supervised Agricultural Experience Projects (SAE) and through the National FFA Organization. When the three parts are properly integrated, student education is maximized. Students learn important academic, career, technical, and life skills when all types of instruction are used.
To make the most of the Agricultural Education Program, all students should participate in FFA and have an SAE project.

SAE

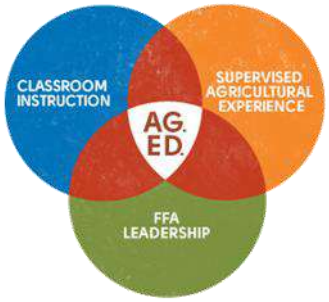
(Supervised Agricultural Experience)

An SAE project is any experience outside of regularly scheduled class time in which the student gains new skills or practices skills in agriculture. Students could hold an ag related job, job shadow an Ag professional, or own any agribusiness enterprise such as an animal or plant project or agriculture service business. Student can also hold a position that is not directly related to agriculture. For example, students could use babysitting, tutoring another student, or doing work around the house as their SAE. The student should select their project based on their career and interests. The type of project is up to the student.

Students should have at least one SAE project each year that they are enrolled in the Ag Ed/FFA program. Students may be required to complete an Agriscience Fair Project.

Ag Ed Classes

Public Law 740 defines SAE and FFA as integral parts of Agricultural Education classes. Students enrolled in Ag Ed Classes will pay a $18 fee for FFA Dues and will be required to have an SAE Project.



FFA

(Formerly Future Farmers of America, now known as the "National FFA Organization").

The Utica FFA Chapter offers a multitude of opportunities to get involved in leadership projects, community service, recreation, competitive events, scholarships, and skills development.
Students do not have to participate in all FFA activities – they can pick the activities that they want to get involved in. All FFA members should plan to participate in at least 1 FFA activity each 9 weeks.

Agriculture, Food and Natural Resources	Course 530	1 ¼ Elective Credit *	Full Year Course	9th – 12th Grades (Best fit for 9th Grade)
This first course in the career field is an introduction to Agricultural and Environmental Systems. Students will be introduced to the scope of the Agricultural and Environmental Systems career field. They will examine principles of food science, natural resource management, animal science & management, plant & horticultural science, power technology and bioscience. Students will examine the FFA organization and Supervised Agricultural Experience programs. Throughout the course, students will develop communication, leadership and business skills essential to the agriculture industry. When joining the course students will also become members of the National, State, and local FFA chapter. Students are required to have a Supervised Agricultural Experience.				
Prerequisite: None				

Animal and Plant Science	Course 533	1 ¼ Elective Credit *	Full Year Course	10th – 12th Grades (Best fit for 10th Grade)
Students will apply knowledge of animal and plant science to the agriculture industry. They will be introduced to the value of production animals relative to the agricultural marketplace. Students will engage in animal classification and selection, body systems, along with animal welfare and behavior in relation to the production of animals. Students will learn principles of plant anatomy and physiology, and the role of nutrition, deficiencies and growing environment on plant production. Throughout the course, business principles and professional skills will be examined. When joining the course students will also become members of the National, State, and local FFA chapter. Students are required to have a Supervised Agricultural Experience.				
Prerequisite: **Agriculture, Food and Natural Resources is strongly recommended**				

Business Management for Agricultural and Environmental Systems	Course 537	1 ¼ Elective Credit	Full Year Course	11th – 12th Grades
Learners will explore the components of agricultural business by developing a business plan, applying marketing and sales techniques, and identifying business structures. Learners will be presented with various leadership and management styles and will examine their impact on business. Learners will investigate how agro-security, finance, career development, and human resources are important components of business management. When joining the course students will also become members of the National, State, and local FFA chapter. Students are required to have a Supervised Agricultural Experience. ***This course will be offered ONLINE for students who are attending CTEC/KCCC.**				
Prerequisites: **Junior/Senior Course Only**				

Livestock Selection, Nutrition, and Management	Course 540	1 ¼ Elective Credit	Full Year Course	11th – 12th Grades
Students will identify and apply principles and routine husbandry practices to production animal populations. Topics will include principles of nutrition, feed utilization, animal welfare, selection and management of facilities, and herd populations. Students will apply knowledge of production animal care to enhance animal growth, selection of breeding stock, and management practices. Throughout the course, students will develop management plans reflecting practices for care and legal compliance. When joining the course, students will also become members of the National, State, and Local FFA chapter. Students are required to have a Supervised Agricultural Experience.				
Prerequisites: Agriculture, Food and Natural Resources is strongly recommended				

FFA Leadership	Course 541	1 Elective Credit	Full Year Course	10th – 12th Grades
This class is designed to equip FFA executive team members and upperclassmen with the tools to enhance their leadership skills and styles. Students will gain knowledge and skills in professional development, interviewing, and responsibility. Students will gain teamwork skills and build self-confidence.				
Prerequisites: FA Executive Team Member or Junior/Senior who has taken at least two agriculture classes. Based on teacher approval.				

Agricultural and Environmental Systems Capstone	Course 531	1 ¼ Elective Credit	Full Year Course	12th Grade
The capstone course is an opportunity for students to solve problems and demonstrate that they have achieved the requisite knowledge and skills in their chosen Agricultural and Environmental Systems career field pathway. The course is designed to assess cognitive, affective and psychomotor learning and to do so in a student-centered and student-directed manner. The capstone requires the application of learning to a project that serves as an instrument of evaluation. When joining the course students will also become members of the National, State, and local FFA chapter. Students are required to have a Supervised Agricultural Experience. *__This course will be offered ONLINE for students who are attending CTEC/KCCC.__				
Prerequisite: **Agriculture, Food and Natural Resources** **THIS IS A SENIOR ONLY COURSE!**				

Natural Resources	Course 536	1 ¼ Elective Credit *	Full Year Course	11th - 12th Grade
Students will study relationships between organisms and their environment. Principles of biogeochemical cycles, air-water-land relationships, non-point pollution, and wetlands will be applied. Students will examine fundamentals of resource development, agriculture sustainability, energy needs and pollution control. They will analyze and interpret data gathered from studies on the ecosystem. Throughout this course, students will develop responses to environmental problems and develop management strategies for responsible conservation and resource development. When joining the course students will also become members of the National, State, and local FFA chapter. Students are required to have a Supervised Agricultural Experience.				
Prerequisite: **Agriculture, Food and Natural Resources is strongly recommended**				

Science and Technology of Food	Course 538	1 ¼ Elective Credit *	Full Year Course	11th - 12th Grade
Students will examine the research, marketing, processing and packaging techniques applied to the development of food products. Learners will examine principles of food preservation techniques and determine correlations to food sensory, shelf life and food stability. Learners will examine and develop food safety, sanitation, and quality assurance protocol. Government regulations and food legislation will be examined and the implications to food science and technology will be identified. When joining the course students will also become members of the National, State, and local FFA chapter. Students are required to have a Supervised Agricultural Experience.				
Prerequisite: **Agriculture, Food and Natural Resources is strongly recommended**				

*Any combination of 2 of the starred courses, students will be able to earn their 3rd science credit for graduation requirements.

Art

Drawing & Painting I (611)	Ceramics & Sculpture I (614)
Drawing & Painting II (612)	Ceramics & Sculpture II (615)
Drawing & Painting III (613)	Ceramics & Sculpture III (616)
Visual Art Composition (618)	Digital Photography (610)

Drawing & Painting I	Course 611	½ Fine Arts Credit	Semester Course	9th – 12th Grades
Beginning Drawing & Painting will cover the 2-dimensional study of drawing and painting, composition, elements of design, color theory, and visual artists. This class will cover how to use drawing/painting materials such as pencils, colored pencils, watercolor and acrylic paints. Sketchbooks are required for this course. Class Fee: $30.				
Prerequisite: None				

Drawing & Painting II	Course 612	½ Fine Arts Credit	Semester Course	9th – 12th Grades
Intermediate Drawing & Painting is a continuation of Beginning Drawing/Painting with more advanced techniques being taught. This class will cover composition, elements of design, color theory, and visual artists. Sketchbooks are required for this course. Class Fee: $30.				
Prerequisites: Drawing/Painting I				

Drawing & Painting III	Course 613	½ Fine Arts Credit	Semester Course	10th – 12th Grades
Advanced Drawing & Painting is a continuation of Intermediate Drawing/Painting with more advanced procedures being taught. This class will focus on creating a portfolio and working in a collection or set of works. Juniors and Seniors may retake the advanced drawing and painting class without credit (audit), under these conditions; space must be available, the art teacher must give permission, and fees must be paid. Sketchbooks are required for this course. Class Fee: $30.				
Prerequisites: Both Drawing/Painting I and II				

Ceramics & Sculpture I	Course 614	½ Fine Arts Credit	Semester Course	9th – 12th Grades
Beginning Ceramics will cover the 3-dimensional study clay. We will focus on pinch, molding, slab, and coils in this class. We will make functional and non-functional pieces. This class will cover composition, elements of design, artists, and how to use the clay and appropriate tools/ materials. Class Fee: $30				
Prerequisite: None				

Ceramics & Sculpture II	Course 615	½ Fine Arts Credit	Semester Course	9th – 12th Grades
Intermediate Ceramics is a continuation of Beginning Ceramics with more advanced techniques taught. Instruction in class will cover the 3-dimensional study of clay and will focus on wheel thrown and hand-built pieces. This class will cover composition, elements of design, artists, and how to use clay tools/materials. Sketchbooks are required for this course. Class Fee: $30.				
Prerequisites: Ceramics & Sculpture I				

Ceramics & Sculpture III	Course 616	½ Fine Arts Credit	Semester Course	10th – 12th Grades
Advanced Ceramics & Sculpture is a continuation of Intermediate Ceramics with more advanced techniques being taught. Instruction in class will cover the 3-dimensional study of various materials. Clay is our main medium for this course. This class will cover composition, elements of design, artists, and how to use ceramics tools/ materials. Juniors and seniors may retake the advanced ceramics and sculpture class without credit (audit), under these conditions; space must be available, the art teacher must give permission, and fees must be paid. Get permission from the Mrs. Zimmerman first then the guidance office to sign up for the audit. Class Fee: $30.				
Prerequisites: Both Ceramics & Sculpture I and II				

Visual Art Composition	Course 618	1 Fine Arts Credit	Full Year Course	11th – 12th Grades
This course offers students an extended studio time to work on their visual arts portfolios. Students taking this course are dedicated to the arts and may be extending their focus into college work. The development of student's portfolios will be explored through several mediums and techniques. Students will have the creative freedom to design projects with the help of the teacher to individualize their projects. Students will create in-depth projects that manage time, resources, the process, self-critiques, and a final product to display. This course will include class critiques and reflections, demonstrations, research, presentations, career building skills, and portfolio basics. Sketchbook and large portfolio are required for this class. Class Fee: $30.				
Prerequisites: Both Drawing/Painting I and II and Teacher Permission Only				

Digital Photography	Course 610	1 Fine Arts Credit	Full Year Course	10th– 12th Grades
Students interested in this class must be a disciplined individual with an interest in being creative and a passion for learning. This course is designed to provide self-directed and advanced instruction and knowledge of opportunities in digital photography. Students will use technology to edit and learn about marketing of photographs and products, to create digital portfolio projects and presentations. Students will study various professional photographers throughout world history, making connections to their own use of the camera and/or school camera. Images will be printed and uploaded to a digital portfolio over the course of the year. Additionally, this class will have guest photographers to learn the business side of photography and how to self-promote and make connections/contacts. Classes will aide in the photography used in the UHS yearbook and Redskin Rumbling throughout the year. Students will be responsible to take photos in an out of class, working on projects without being promoted and being a self-advocate. Lab Fee: $30.00 and access to a DSLR Camera daily – Course contract will be signed by parent/guardian.				
Prerequisites: None. Class size is limited.				

Work Based Learning

Work Based Learning 11 (570) Work Based Learning Experience (572)
Work Based Learning 12 (571)

Work Based Learning & Work Experience	Courses WBL 11- 570 WBL 12- 571 WBL Ex.- 572	Work Based Learning Class- 1 Credit WBL Experience- 2 Credits	Full Year Course	11th – 12th Grades
Work Based Learning includes Related and Work Experience is for students who are recommended and meet qualifications for the program. Students spend one-half day in the classroom, (or as needed to complete graduation requirements), studying subjects related to on-the-job experience as well as other high school subjects. The other half-day the students receive on-the-job experience in actual occupational activities with the help of a cooperating employer and teacher-coordinator. The major objective is to develop, through work experience, the necessary skills, abilities, and attitudes, which will enable students to become gainfully employed.				
Prerequisite: Junior/senior standing and recommendation and acceptance of teacher upon application.				

Computer Technology

Intro to Computer Science I (651)	Computer Technology Assistant I (Hardware) (660)
Computer Science II (652)	Computer Technology Assistant II (Hardware) (661)
Computer Technician I (672)	Computer Technology Assistant III (Operating Systems) 662)
Computer Technician II (673)	Computer Technology Assistant IV (Operating Systems) (663)
Robotics (670)	Fundamentals of Cybersecurity (680)

Intro to Computer Science I	Course 651	½ Computer Technology Credit	Semester Course	9th – 12th Grades
Software Applications I is a computer science course introducing the basics of programming with Karel the Dog, the basics of designing a web page, understanding the hardware of a computer, and how information is represented digitally and sent over the Internet. Students will learn to code using blocks to drag and drop, but they can switch between blocks and text as desired. Students will create a personal portfolio website showing projects they build throughout the course. With a unique focus on creativity, problem solving and project-based learning, Computing Ideas gives students the opportunity to explore several important topics of computing using their own ideas and creativity to develop an interest in computer science that will foster further endeavors in the field. ***Graduation requirement for class of 2025***				
Prerequisite: None				

Computer Science II	Course 652	½ Computer Technology Credit	Semester Course	10th – 12th Grades
In Software Applications II, students will learn to code as it relates to music, art, and sports. Using a block-coding environment, students create music beats, explore the digital art medium by building coding programs that create collages, and develop their own sports video games and simulations using code. Students will create a personal portfolio website showing projects they build throughout the course. With a unique focus on creativity, problem solving and project-based learning.				
Prerequisite: Intro to Computer Science I				

CTA I (Hardware)	Course 660	½ Computer Technology Credit	Semester Course	10th – 12th Grades
CTA I introduces students to the basics of managing, maintaining, and troubleshooting hardware. Students will be introduced to hardware, form factors, power supplies, motherboards, processors, memory and hard drives. This course is recommended for students who plan to pursue a career in computers. Students taking this class are strongly encouraged to have a study hall in addition to this class. Students must fill out an application for this course with the course instructor.				
Prerequisite: Intro to Computer Science I and Instructor Approval				

CTA II (Hardware)	Course 661	½ Computer Technology Credit	Semester Course	10th – 12th Grades
CTA II introduces students to the basics of managing, maintaining, and troubleshooting hardware. Students will be introduced to installing input/output devices, multimedia devices, troubleshooting, printers etc. This course is recommended for students who plan to pursue a career in computers. Students taking this class are strongly encouraged to have a study hall in addition to this class. Students must have instructor sign off for this course.				
Prerequisite: CTA II (Hardware) and Instructor Approval				

CTA III (Operating Systems)	Course 662	½ Computer Technology Credit	Semester Course	11th – 12th Grades
CTA III introduces students to the basics of managing, maintaining, and troubleshooting software. Students will be introduced to networking as well as reviewing material from previous CTA courses. This course is recommended for students who plan to pursue a career in computers. Students taking this class are strongly encouraged to have a study hall in addition to this class. Students must have instructor sign off for this course.				
Prerequisites: CTA I and II (Hardware) and Instructor Approval				

CTA IV (Operating Systems)	Course 663	½ Computer Technology Credit	Semester Course	11th – 12th Grades
CTA IV introduces students to the basics of managing, maintaining, and troubleshooting software. Students will be introduced to software: comparing operating systems, how an OS works, boot process, supporting hard drives, Windows on networks and the Internet, Macs and ipads. This course is recommended for students who plan to pursue a career in computers. Students taking this class are strongly encouraged to have a study hall in addition to this class. Students must have instructor sign off for this course.				
Prerequisite: CTA III (Operating Systems) and Instructor Approval				

Computer Technician I	Course 672	½ Computer Technology Credit	Semester Course	12th Grade
Computer technician I is designed for students who have completed four semesters of computer technology, including CTA 1-4. Students will work as computer technicians throughout the building and/or district applying the cumulative knowledge from their computer technology background. Students will further develop professional skills required as a computer technician. Students will focus on independent areas of interest within computer technology. This course is recommended for students who want to pursue a career in computer technology. Students must have instructor sign off for this course.				
Prerequisites: CTA I-IV and Instructor Approval				

Computer Technician II	Course 673	½ Computer Technology Credit	Semester Course	12th Grade
Computer technician II designed to offer students who have completed Computer Technician 1 additional opportunities to master their skills. Students will work as computer technicians throughout the building and/or district applying the cumulative knowledge from their computer technology background. Students will further develop professional skills required as a computer technician. Students will focus on independent areas of interest within computer technology. This course is recommended for students who want to pursue a career in computer technology. Students must have instructor sign off for this course.				
Prerequisite: Computer Technician I and Instructor Approval				

Robotics	Course 670	½ Computer Technology Credit	Semester Course	9th-12th Grade
Students will be working with VEX Robotics equipment and VEXCode coding systems. VEX Robotics is a course based around learning about how robots' function and how to build them. Students will build the VEX robots to complete challenges and compete against their classmates to show the capabilities of robots. Students in this class will get to explore how robotics can be used is various ways; build low-cost scientific instruments, architect prototypes, musical instruments, the possibilities are endless!				
Prerequisite: None				

Fundamentals of Cyber Security	Course 680	½ Computer Technology Credit	Semester Course	9^{th}-12^{th} Grade
As our world becomes increasingly dependent on technology, cybersecurity is a topic of growing importance. It is crucial that companies and individuals take precautions to protect themselves from the growing threat of cyber-attacks. This course prepares students with crucial skills to be responsible citizens in a digital future. Students will learn foundational cybersecurity topics including networking fundamentals, software security, system administration and the basic of cryptography and programming, all through the CodeHS web-based platform. The entirely web-based curriculum is made up of a series of learning modules that cover fundamentals of cybersecurity.				
Prerequisite: None				

English

English 9 (010)
English 9 Advanced (012)
Advanced Placement Literature & Comp (024)
English 11 (020)
English 11 Advanced (033)
English 10 (015)
English 10 Advanced (017)
Advanced Placement Language & Comp (025)
English 12 (021)
English 12 Advanced (038)

ELECTIVE

Mystery/Fantasy/Science Fiction (044)
Great Books as Film (043)
Poetry (032)
Mythology (029)
Creative Writing (028)
Communications I (023)
Communications II (026)

English 9	Course 010	1 English Credit	Full Year Course	9th Grade
English 9 - This full-year course is required of all freshmen. This course places emphasis upon the fundamentals of grammar, the sentence, and paragraph development. Writing basic styles of compositions, such as argumentative and thematic essays, are part of the class. The literature portion of the class is designed to increase reading ability and comprehension, as well as the capacity for relating literature to personal experience. Emphasized are the short story, novel, drama, poetry, and non-fiction. This course emphasizes building essential skills in listening, speaking, reading, writing, and critical thinking, all of which are essential to helping students become effective learners.				
Prerequisite: None				

English 9 Advanced	Course 011	1 English Credit	Full Year Course	9th Grade
English 9 Advanced – This course consists of the same basic material as listed for English 9 regular; however, this course will include more exposure to recommended classic literature. Reading and writing projects will be more intense, and expectations for independent study will be higher. This course will also stress further vocabulary development and writing enhancement. Students should expect independent reading, accelerated pacing, and increased rigor.				
Prerequisites: 8th grade English teacher recommendation w/ at least a "B" average in 8th grade English				

English 10	Course 015	1 English Credit	Full Year Course	10th Grade
English 10 is a required course of all sophomores. This course places a strong emphasis upon writing and reading skills. Literature for the class includes: essays, short stories, the novel, drama, and poetry; while projects include essays, research projects and a report, presentations, career research and technology assignments.				
Prerequisite: English 9				

English 10 Advanced	017	1 English Credit	Full Year Course	10th Grade
This course will consist of the same basic material as that listed for English 10 regular; however, a greater emphasis will be placed on the presentation of original work along with a more intense, independent reading program. A larger variety of essays will be taught, allowing students to sharpen writing skills necessary for their futures. Students should expect independent reading, accelerated pacing, and increased rigor.				
Prerequisite: 9th grade English teacher recommendation				

AP Literature & Composition	Course 024	1 English Credit	Full Year Course	11th - 12th Grade
AP Lit & Comp is a demanding college-level course recommended for students who want to learn about literature. Students will read, analyze, discuss, and write about a wide variety of poetry and prose. The focus is on equipping lifelong learners with critical reading skills that enable them to synthesize evidence and gain new insights; such skills are essential to successful college study. Students enrolled in the course must take the first semester exam and the AP English Literature and Composition Exam in the spring. In the second semester, students must also complete a research project and update career passports. Students are required to buy several of the texts used in the course. **The course <u>cannot</u> be dropped after June 30th, and the parent must directly contact the Principal or School Counselors**.				
Prerequisites: Emphasis will be placed on Teacher Recommendation				

AP Language & Composition	Course 025	1 English Credit	Full Year Course	11th - 12th Grade
AP Lit & Comp is a demanding college-level course recommended for students who want to learn about literature. Students will read, analyze, discuss, and write about a wide variety of poetry and prose. The focus is on equipping lifelong learners with critical reading skills that enable them to synthesize evidence and gain new insights; such skills are essential to successful college study. Students enrolled in the course must take the first semester exam and the AP English Literature and Composition Exam in the spring. In the second semester, students must also complete a research project and update career passports. Students are required to buy several of the texts used in the course. **The course <u>cannot</u> be dropped after June 30th, and the parent must directly contact the Principal or School Counselors**.				
Prerequisites: Emphasis will be placed on Teacher Recommendation				

English 11	020	1 English Credit	Full Year Course	11th Grade
The course includes weekly spelling and vocabulary study; fiction and non-fiction reading selections with an emphasis on comprehension skills; and weekly writing instruction designed to improve students' competency in the areas of fundamental grammar, sentence structure and paragraph development. Students will also research topics, evaluate sources, and compile and present their findings.				
Prerequisite: 11th Grade Placement				

English 12	021	1 English Credit	Full Year Course	12th Grade
This course includes vocabulary study, development of reading comprehension and monitoring strategies, analysis of writing techniques, and use of visual literacy skills through fiction and non-fiction mediums. Writing instruction focuses on functional writing skills, coherent development of ideas, and writing conventions. Students will also research topics, evaluate sources, and compile and present their findings.				
Prerequisite: 12th Grade Placement				

English 11 Advanced	Course 033	1 English Credit	Full Year Course	11th Grade
This course is an exploration of a range of literature written by Americans throughout history and includes various genres, fiction and nonfiction. Students will be expected to discuss, reflect, and write about the material presented. A research project connecting the material to historical context will be included in the course. Students should expect independent reading, accelerated pacing, and increased rigor				
Prerequisites: 11th Grade Placement				

English 12 Advanced	Course 038	1 English Credit	Full Year Course	12th Grade
This course studies the British masters with a particular emphasis on both novels and Shakespeare. English 12 Advanced, as a class, is an intensive reading and writing class. This class involves a variety of readings, and writing projects including an APA formatted research paper. Students should expect independent reading, accelerated pacing, and increased rigor.				
Prerequisites: 12th Grade Placement				

Great Books on Film	Course 043	1 English Credit	1 Full Year Course	12th Grade
Through literature and film, students will explore cinematography, criticism, acting choice, author involvement, and much more. Class units will focus on eras of film and specific film's connection to books. Within this class, students will read and write with specifics to the literature and films, covering the same standards in English 12. Students will complete an independent research project.				
Prerequisites: English 9 & 10				

Elective Courses

Communications	Course 023	½ Elective Credit	Semester Course	10^{th} – 12^{th} Grades
Communications is a writing based English course that focuses on various types of speeches and communicating through writing. Students taking this course are required to give different types of speeches and no student will pass the course that refuses to do so. Students will learn how to prepare and deliver speeches as well as how to research topics for speeches that are to be given and practice impromptu speaking on various topics.				
Prerequisite: English 9				

Communications II	Course 026	½ Elective Credit	Semester Course	10^{th} – 12^{th} Grades
This course is designed to build upon Communications 1. Students will focus on continuing to develop their formal, and informal, communication skills and shift the focus into using those skills in their post high school life. Students will complete assignments that will push their developing communication skills in verbal and non-verbal ways. The purpose of this course is to develop real-world critical thinking and metacognitive skills through study and practice.				
Prerequisite: Passing grade in Communications I				

Creative Writing	Course 028	½ Elective Credit	Semester Course	11^{th} – 12^{th} Grades
Creative Writing is intended for all students who want to improve their writing skills. Students will examine professional models, explore activities for creative thinking, and build vocabulary. Students will write in various formats: character sketches, plot outlines, short stories, play writing, poetry, essays, personal narratives, etc. A willingness to try different types of writing, an ability to meet deadlines, and attendance during discussions, peer evaluations, and audio-visual presentations are the criteria for evaluation.				
Prerequisites: English 9 & 10				

Mythology	Course 029	½ Elective Credit	Semester Course	11^{th} – 12^{th} Grades
Mythology students will review Greek and Roman mythology and focus on other less well-known mythologies. Also, the modern application of myths will be studied. Quizzes, tests, projects, essays, attendance at audiovisual presentations, and one research project are the evaluation components for this class.				
Prerequisites: English 9 & 10				

Poetry	Course 032	½ Elective Credit	Semester Course	11^{th} – 12^{th} Grades
Poetry is a writing course that provides students a forum for reading, writing, and discussing poetry. Students will study different styles of poetry, different poets and periods of poetry, write their own, and complete a research project about a specific poet.				
Prerequisites: English 9 & 10				

Mystery/Fantasy/ Science Fiction	Course 044	½ Elective Credit	Semester Course	11^{th} – 12^{th} Grades
Mystery, Fantasy, and Science Fiction genre **literature** class will study each of these three types of literature through novels, short stories, television, and movies. In addition to reading students will be required to complete a variety of independent and group projects, including a research paper on one of the class's genres.				
Prerequisites: English 9 & 10				

Foreign Language

Spanish I (081)	Spanish III (083)	Spanish V (085)
Spanish II (082)	Spanish IV (084)	

Spanish I	Course 081	1 Foreign Language Credit	Full Year Course	8th – 11th Grades
In Spanish I, communications development is achieved through the use of the four language skills: listening, speaking, reading and writing. The student will learn common beginning vocabulary, grammar rules and how to conjugate verbs in the present tense. Sentence structure will be discussed and by the end of the year, the student should be able to read and write a simple paragraph in Spanish and carry on a simple conversation in Spanish. Cultural awareness is developed through the use of films and projects. Personal development is made through working in groups, reciting without embarrassment, listening patiently to one another, and through the positive experience of being successful with a foreign language.				
Prerequisite: Incoming 9th grade students must be recommended for English 9 Advanced. All other students must meet the following criteria: an A or B in English recommended, C average in English required.				

Spanish II	Course 082	1 Foreign Language Credit	Full Year Course	9th – 12th Grades
Spanish II is the second course in a foreign language sequence aimed at anyone with an interest in another culture, but especially useful to those preparing for college. Many colleges require a minimum of two years of high school foreign language for entrance. Reading, writing, listening, speaking, and culture are all included in this course.				
Prerequisite: a grade of a C or above in Spanish I				

Spanish III	Course 083	1 Foreign Language Credit	Full Year Course	10th – 12th Grades
Spanish III is a continuation of the development of communications skills and cultural awareness. The student will increase knowledge of advanced grammatical structures; more verb tenses will be introduced along with more advanced vocabulary. The student will be able to read longer intermediate level reading selections, communicate in discussions and write compositions in the Spanish language. This course is graded on a weighted system. Please refer to the weighted academic point system in this course guide for a more detailed explanation of the system.				
Prerequisite: a grade of a C in Spanish II				

Spanish IV	Course 084	1 Foreign Language Credit	Full Year Course	11th – 12th Grades
Spanish IV is furthering the development of communications skills and cultural awareness. The student will know all verb tenses, communicate in advanced discussions, write advanced compositions, and read advanced reading selections by the end of the fourth year. They will also have a better understanding of the Spanish-speaking cultures. This course is graded on a weighted system. Please refer to the weighted academic point system in this course guide for a more detailed explanation of the system.				
Prerequisite: B average or higher in Spanish III				

Health & High School 101

Health (631) High School 101 (665)

Health	Course 631	½ Health Credit	Semester Course	9th Grade
Health is graduation requirement for all Utica High School students. The goal of this course is to encourage students to make healthy choices to improve their overall level of wellness and reduce the risk of disease. The course will focus on personal habits that promote healthy lifestyles that reduce the risk of disease. Topics will include stress management, weight management, nutrition, the effects of sugar & caffeine on the body, heart rate and the benefits of physical activity. Students will explore how media messages impact body image and self-esteem and the dangers of using alcohol, drugs, tobacco and vaping products. All students will complete CPR training and learn about organ, eye and tissue donation to meet state requirements. The topics and activities of this course align with the National Health Standards.				
Prerequisite: None				

High School 101	Course 665	½ High School 101 Credit	Semester Course	9th Grade
High School 101 is graduation requirement for all Utica High School students. High School 101 is designed to help freshman students gain the necessary skills to be successful in high school. Students will explore the student handbook, study skills, time management, goal setting, GPA, test-taking strategies, career exploration, Internet safety, bullying and other useful topics during the semester class. Early in the year, students will learn how to navigate and use a variety of apps on their iPads as tools for use in the classroom. Additional topics that become pertinent to freshman students will be added throughout the semester as deemed necessary.				
Prerequisite: None				

Mathematics

Math I (302)	Algebra I (321)	Geometry Adv. (324)
Math II (322)	Algebra II (325)	Pre-calculus (326)
Math III (315)	Algebra II Adv. (327)	Transition to College Math (329)
Financial Algebra (331)	Geometry (323)	Calculus (CCP) (332)
	College Algebra (CCP) (328)	Introduction to Statistics (CCP) (330)

Math I (Algebra I)	Course 302	1 Mathematic Credit	Full Year Course	9th – 12th Grades
Math 1 covers the concepts and real-life applications of linear functions, quadratic functions, exponential functions, and statistical analysis. The focus of this course is to continue extending their proficiency of previous content as we as mastering making sense of mathematics, problem solving, modeling, and abstract thinking. Focus for the course based on the Ohio Standards for Learning. A scientific calculator is required for this course.				
Prerequisite: None				

Math II (Algebra II)	Course 322	1 Mathematic Credit	Full Year Course	10th – 12th Grades
Math II reviews the essentials of Math I, while extending those concepts. Topics include linear, quadratic, and exponential functions, systems, polynomial and rational algebraic expressions, exponents and logarithms, complex numbers, probability, and trigonometry. Focus for the course based on the Ohio Standards for Learning. A scientific calculator is required.				
Prerequisite: Passed Math I				

Math III (Geometry)	Course 315	1 Mathematic Credit	Full Year Course	11th – 12th Grades
Math III extends into the study of Geometry, providing students the opportunity to describe and apply the properties of similar and congruent figures, to apply the Pythagorean Theorem, to understand angles, to compare parallel and perpendicular lines, to explore compass and straight edge constructions in the context of geometric theorems, and to use a variety of techniques of proof. Students must be well organized and complete acceptable homework. Math III is intended to meet the common core requirements for topics in geometry. A scientific calculator is required.				
Prerequisite: Passed Math II				

Financial Algebra	Course 331	1 Mathematic Credit	Full Year Course	11th - 12th Grades
Financial Algebra is an algebra-based, application-oriented course that addresses college preparatory mathematics topics under seven financial umbrellas: Banking, Investing and Modeling a Business, Employment And Income Taxes, Automobile Ownership, Independent Living, Retirement Planning and Household Budgeting. Students us a variety of problem-solving skills and strategies in real-world contexts.				
Prerequisite: Passed Math III or Algebra 2				

Algebra I	Course 321	1 Mathematic Credit	Full Year Course	8th – 12th Grades
Algebra covers the concepts and real-life applications of linear functions, quadratic functions, exponential functions, and statistical analysis. Students will be able to demonstrate mastery in making sense of mathematics, problem solving, modeling, and abstract thinking. Focus for the course based on the Ohio Standards for Learning.				
Prerequisite: C Average or better in 8th grade Math / Teacher Recommendation from Math I				

Algebra II	Course 325	1 Mathematic Credit	Full Year Course	10th – 12th Grades
Algebra II quickly reviews the essentials of Algebra I, while extending those concepts greatly. Students considering science or math-related college studies and/or are on the Calculus or Pre-Calculus track should buckle-down and master the material in this course. Topics include linear and quadratic functions, systems, polynomial and rational algebraic expressions, exponents and logarithms, complex numbers, probability and trigonometry. A scientific calculator is required; however, a graphing calculator is highly recommended.				
Prerequisite: C Average or better in Algebra I and Geometry or teacher approval				

Algebra II Advanced	Course 327	1 Mathematic Credit	Full Year Course	10th – 12th Grades
Algebra II Advanced quickly reviews the essentials of Algebra I, while extending those concepts greatly. Topics include linear and quadratic functions, systems, polynomial and rational algebraic expressions, exponents and logarithms, complex numbers, probability, and trigonometry. Each of these topics is covered in a more accelerated pace than in Algebra II and with more challenging problems. Focus for the course is based on the Ohio Standards for Learning. A scientific calculator is required; however, a graphing calculator is highly recommended.				
Prerequisite: Teacher Recommendation and a B Average or better in Algebra I and Geometry				

Geometry	Course 323	1 Mathematic Credit	Full Year Course	9th – 12th Grades
The study of Geometry provides students the opportunity to describe and apply the properties of similar and congruent figures, to apply the Pythagorean Theorem, to understand angles, to compare parallel and perpendicular lines, to explore compass and straight edge constructions in the context of geometric theorems, and to use a variety of techniques of proof. Focus for the course is based on the Ohio Standards for Learning.				
Prerequisites: C Average or Better in Algebra 1 or Math1 (w/ teacher recommendation)				

Geometry Advanced	Course 324	1 Mathematic Credit	Full Year Course	10th – 12th Grades
The study of Geometry provides students the opportunity to describe and apply the properties of similar and congruent figures, to apply the Pythagorean Theorem, to understand angles, to compare parallel and perpendicular lines, to explore compass and straight edge constructions in the context of geometric theorems, and to use a variety of techniques of proof. The class will move at a more accelerated pace and will solve more challenging problems encountered in Geometry. Focus for the course is based on the Ohio Standards for Learning. A scientific calculator is required.				
Prerequisites: Teacher Recommendation and a B Average or Better in Algebra 1				

Transition to College Math	Course 329	1 Mathematic Credit	Full Year Course	12th Grade
Transition is for students who want to prepare themselves for the core of a college mathematics course, and possibly test-out of some basic college courses. Students who do not want to enter a mathematics-related major in college might be interested in this course. It provides for a more in-depth approach to algebraic and geometric applications to concrete problem settings. Graphing and calculators play a key role in the course. They provide concrete representation of relationships and access to demanding, realistic problems.				
Prerequisites: Passed Algebra II or Math 3 (w/ teacher recommendation)				

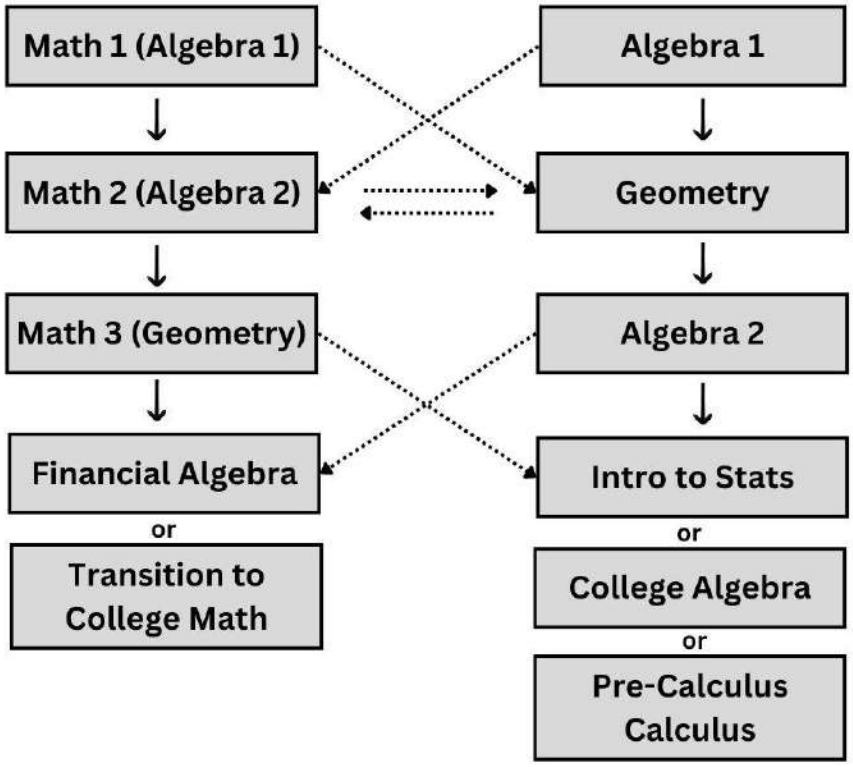
Pre-calculus	Course 326	1 Mathematic Credit	Full Year Course	11th – 12th Grades
Pre-calculus completes the formal study of the functions begun in Algebra I and Algebra II. Students focus on modeling, problem solving, data analysis, trigonometric and circular functions and their inverses, polar coordinates, complex numbers, conics, and quadratic relations. **This course is graded on the weighted system**.				
Prerequisites: Algebra I, II, Geometry, and Teacher approval				

College Algebra	Course 328	1 Mathematic Credit	Semester Course	11th – 12th Grades
This course is a study of algebraic functions including polynomial, rational, radical, exponential, logarithmic, and piece-wise defined functions. Topics investigated will include domain, range, graphs, inverses, operations, equations, inequalities and their applications. Students enrolled in this course will earn 3 semester hours of college credit upon passing. Students will need to score a 22 on the math section of the ACT or have a passing score on the placement test to enroll in this course. A graphing calculator is required. **This course is graded on a weighted system**				
Prerequisites: Completed Algebra I, II, and Geometry (Earned College Readiness placement score) Enrollment is dependent upon meeting COTC criterion for College Credit Plus.				

Intro to Statistics	Course 330	1 Mathematic Credit	Semester Course	11th – 12th Grades
This is a non-calculus, introductory course in descriptive and inferential statistics. Concepts are explained intuitively and supported by examples. The applications are general in nature, and the exercises include problems from agriculture, biology, business, economics, education, environmental studies, psychology, engineering, medicine, sociology and computer science. Students enrolled in this course will earn 3 semester hours of college credit upon passing. Students will need to score a 22 on the math section of the ACT or have a passing score on the placement test to enroll in this course. A graphing calculator is required. **This course is graded on a weighted system.**				
Prerequisites: Completed Algebra I, II, and Geometry (Earned College Readiness placement score) Enrollment is dependent upon meeting COTC criterion for College Credit Plus.				

Calculus	Course 332	1 Mathematic Credit	Full Year Course	11th Grade with Recommendation OR 12th Grade
Calculus covers the concepts of limits, derivatives, integrals, and their applications. Limits of functions are covered, including continuity of functions. The definition of the derivative as well as rules for differentiation develop the ability to find the derivatives of functions, including polynomial, rational, algebraic, trigonometric, inverse trigonometric, exponential, logarithmic, hyperbolic and inverse hyperbolic functions. Derivatives are used in curve sketching as well as in solving applied problems. The Mean Value Theorem and Newton's Method for optimization are covered. Definite and indefinite integrals, the Fundamental Theorem of Calculus, the substitution method and area between curves are discussed. Students enrolled in this course will earn 5 semester hours of college credit upon passing. **This course is graded on the weighted system.**				
Prerequisites: Students will need to score a 28 on the math section of the ACT or have a passing score on the placement test to enroll in this course and must have earned a C or better in Pre-Calculus. Enrollment is dependent upon meeting COTC criterion.				

UHS Math Progressions



Miscellaneous

Career Readiness (426)	College & Career Planning (427)
Publications & Design 1 (424)	Publications & Design 2 (425)
Leadership Development (429)	ACT Test Prep (668)
Financial Literacy (430)	

Publications & Design 1	Course 424	1 Elective Credit	Full Year Course	9th – 12th Grades
Publication students will learn the basics of gathering information and turning it into a story through different outlets such as the *Redskin Rumbling Newsletter,* and various school social media sources. Photography, editing, headline and caption writing, editorials, layout design, fundraising, media ethics will also be included. Students will learn about the different basic skills and styles of photography, Publisher, Canva, and other formats. Grades are based on participation/engagement, meeting deadline, creating quality work, and fundraising. Publications is looking for school spirited students who could have interests in being artistic, creative, and showing casing/reporting on our schools' events and departments. **Lab Fee $20.**				
Prerequisite: Students must apply and be selected as a member of this class. Class size is limited.				

Publications & Design 2	Course 425	1 Elective Credit	Full Year Course	10th – 12th
Publication 2 students will build upon the skills and techniques previously learned in Publications 1 and focus on creating a school yearbook for the student body. Students will develop ownership of pages, use more advanced photography, editing, headline and caption writing, layout design, fundraising, and media ethics will also be included. Students will learn basic skills of photography, Publisher, Canva, and other formats. Grades are based on participation/engagement, meeting deadline, creating quality work, and fundraising. Publications is looking for school spirited students who could have interests in being artistic, creative, and showing casing/reporting on our schools' events and departments. **Lab Fee $20.**				
Prerequisite: Publications 1 Course or by teacher permission. Class size is limited.				

Career Readiness	Course 426	½ Elective Credit	Semester Course	12th Grade
Career Readiness is a semester course designed exclusively for seniors preparing for the working world after graduation. The class will aim to prepare future graduates by teaching topics identified as the "soft skills" necessary for successful employment as identified by various business leaders. Topics may include: social graces, business communication, time management, teamwork/team building skills, leadership skills, customer service, job seeking skills, money management, and career development.				
Prerequisite: Senior Standing				

College & Career Planning	Course 427	½ Elective Credit	Semester Course	11th Grade
In this course, students will continue to research careers and occupations, review postsecondary admissions qualifications and process, and develop interviewing skills. Additional topics will include professionalism, employability skills, leadership, resume and college essay writing, ACT prep, communication and etiquette using electronic media and completion of job and college applications.				
Prerequisite: Junior Standing				

Leadership Development	Course 429	½ Elective Credit	Semester Course	9th – 12th Grade
Through reading, researching and school related projects; students will develop the necessary knowledge, attitudes, and skills to fulfill leadership opportunities in the school setting. Students will study leadership, effectiveness; assess their individual leadership styles and skills; and establish personal goals and understanding of leadership effectiveness. An emphasis will be placed on developing effective communication skills, habits characteristic of effective teens, and group skills including team building, conflict resolution, and stress management. Students will be asked to participate in group projects that benefit others in order to apply effective decision-making, communication, and critical thinking.				
Prerequisite: None				

ACT Test Prep	Course 668	½ Elective Credit	Semester Course	10th – 12th Grade
This class is designed to help students prepare for the ACT. Students will learn how the test is scored, strategies for test taking, and numerous tips on how to improve your own ACT score. The students will practice these strategies on the ACT prep website and real ACT tests in the classroom. Each student will compete 2 actual ACT practice tests, complete with knowing their composite score on both. This class will improve your score!				
Prerequisite: None				

Financial Literacy	Course 430	½ Elective Credit	Semester Course	9th – 12th Grade
Students will learn the fundamental understanding of financial literacy concepts. They will have the skills needed for them to be informed and savvy consumers in today's fast paced and ever-changing society. General topics of the course will include: financial responsibility & decision making, planning & money management, informed consumer, investing, credit & debt, and risk management & insurance. Students will apply the concepts to real world skills and content. **Financial Literacy is a graduation requirement for the class of 2026 and beyond.**				
Prerequisite: None				

Music

Band (644)	Concert Choir (646)
Marching Band Auxiliary (645)	Kantorians (640)
Music Theory (648)	Popular Trends in Music (642)
Intro to Band (641)	History of Musical Theater (649)
Guitar I (642)	Modern Musical Performance (650)
Guitar II (643)	

Band	Course 644	1 Fine Arts Credit	Full Year Course	9th – 12th Grades
The UHS Band is for students who play a band instrument and wish to participate in a full-size instrumental group. The class will operate as a marching unit in the fall and as a concert band for the remainder of the year. Students will study a variety of literature of different styles and time periods and learn proper playing techniques. Students will also have the opportunity throughout the year to supplement their training by performing in small ensembles. After-school rehearsals and performances will be held and, unless excused by the director, attendance at these is required.				
Prerequisite: None, however middle school band would be helpful				

Kantorians	Course 640	1 Fine Arts Credit	Full Year Course	9th – 12th Grades
Kantorians is an honors choir. It performs two styles of music: traditional, advanced choral literature and contemporary rock/standard music with choreography. In addition, they perform four evening concerts per year. Students must audition in the spring to earn a spot in the group for the following year. Performance attendance is required. Class fee: $12.00				
Prerequisite: Spring Auditions				

Concert Choir	Course 646	1 Fine Arts Credit	Full Year Course	9th – 12th Grades
Concert Choir is for students who enjoy singing and want to improve their skills. The group performs a variety of music types and styles. They perform four evening concerts per year as well as take various field trips. Performance attendance is required. Class fee: $12.00.				
Prerequisite: None				

Music Theory	Course 648	1 Fine Arts Credit	Full Year Course	9th – 12th Grades
Music Theory Students will review the basics of reading music. From there we will go into intervals, chords, and sight-singing. Transpositions will also be studied, and the students will get an opportunity to both arrange and compose music. Principles of four-part writing and chordal analysis will be covered, as well as dictation of music. Test and classroom work will be the basis for evaluation. A workbook will be required for this class.				
Prerequisite: Participation in Band or Choir for at least 1 year				

Popular Trends in Music	Course 642	1 Fine Arts Credit	Full Year Course	9th – 12th Grades
Popular Trends in Music (formerly History of Rock) is a year-long class focusing on the origins, development, and expansion of popular music in America. Influential genres, artists, music, and production/distribution of popular music will be discussed. Students will listen to music, discuss the structure of it, and discuss the meaning behind the lyrics. Handouts, class notes, and listening examples will be given daily. Quizzes, tests, and research papers will occur weekly or monthly.				
Prerequisite: None				

Intro to Band	Course 641	½ Fine Arts Credit	Semester Course	9th – 12th Grades
In this course students will learn how to play a woodwind, brass, or percussion instrument. This course is intended for students who want to play an instrument but haven't participated in band yet. It is also intended for students who participated in band early in their academic career and wish to re-join. Students will learn the basics of how to play an instrument and read music. Instruments can be provided if needed. There will be no out of school commitments during this course. It is expected that students taking this course wish to participate in high school band the following semester.				
Prerequisite: None				

Guitar I	Course 642	½ Fine Arts Credit	Semester Course	9th – 12th Grades
This one-semester course is for students with little or no previous guitar experience. Students will receive guidance and direction in playing the guitar at a beginning level. They will learn many of the different styles, skills, and techniques required to become a successful guitarist. Students will need to have access to a six-string acoustic or electric guitar. Buying, renting, or borrowing a guitar is required component of this class.				
Prerequisite: None				

Guitar II	Course 643	½ Fine Arts Credit	Semester Course	9th – 12th Grades
This one-semester course is for students with some previous guitar experience. It is a continuation of Guitar I. Students will refine their understanding of the different styles, skills, and techniques required to become a successful guitarist. Students will need to have access to a six-string acoustic or electric guitar. Buying, renting, or borrowing a guitar is required component of this class.				
Prerequisite: None				

History of Musical Theater	Course 649	½ Fine Arts Credit	Semester Course	9th – 12th Grades
History of Music Theatre is a semester-long course open to students in grades 9-12. The class is an overview of the history of Broadway musicals. We focus on ten shows that represent a variety of styles, eras, and genres of musical theatre. Evaluation is done through notebook checks, quizzes, and tests.				
Prerequisite: None				

Modern Musical Performance	Course 650	1 Fine Arts Credit	Full Year Course	9th – 12th Grades
This music performance class is an extension of Guitar, Band, and Choir classes. Students will be formed into "bands", learn cover versions of popular songs, and perform them. Students are expected to know how to play an instrument or sing prior to taking this class. Students will only be permitted to perform on an instrument if they have received musical instruction on that instrument in the past. This is a course which may be taken multiple years. New music will be performed each year.				
Prerequisite: 1 Full year of guitar, band, or choir				

Physical Education

Recreational PE (621)	Competitive PE (623)
Advanced Weight Lifting (624)	Personal Fitness (622)
Yoga (625)	

Recreational PE	Course 621	¼ Physical Education Credit	Semester Course	9th – 12th Grades
Recreational PE aims to promote a desire for physical fitness, lifetime physical activity, and healthy leisure time habits through physical activities, sports, and games. Activities will include numerous team, partner, and individual based games that will focus on fundamental improvement, understanding of game rules and procedures, and general tactics and strategies. The course is geared toward students who want to learn and practice the basics of physical activity and sport without the added pressure or stress of in class competition with peers. Activities are aligned with the five Ohio Standards for Physical Education. State fitness testing will also be conducted at the beginning and end of the semester. Students must bring proper shoes every day to change into for class. If a student is unable to participate due to a documented medical condition, an alternative program will be based on the medical restrictions.				
Prerequisite: None				

Competitive PE	Course 623	¼ Physical Education Credit	Semester Course	9th – 12th Grades
Competitive PE is an advanced level PE class where students will be competing at a high level on a daily basis with peers in a variety of physical activities, sports, and games. Activities will include numerous teams, partner, and individual based games that will focus on advanced skill development, specific tactics and strategies for each sport, and be played at an advanced speed and up-tempo pace. The course is geared toward students who enjoy a high level of competition and want to challenge themselves in a variety of physical activities. Activities are aligned with the five Ohio Standards for Physical Education. State fitness testing will also be conducted at the beginning and end of the semester. Students must bring proper shoes every day to change into for class. If a student is unable to participate due to a documented medical condition, an alternative program will be based on the medical restrictions.				
Prerequisite: None				

Personal Fitness	Course 622	¼ Physical Education Credit	Semester Course	9th – 12th Grades
In Personal Fitness, students will learn how to create, implement, and follow their own personal fitness plan and regimen. In the beginning of the course, students will create fitness goals for themselves, and then create a specific plan and workout regimen for themselves, which is catered toward meeting their own goals. For the remainder of the semester, students will follow their own workout routine every day. Each student's workout regimen will be approved by the instructor, and given guidelines to follow. Activities are aligned with the five Ohio Standards for Physical Education. Students must bring proper shoes every day to change into for class. If a student is unable to participate due to a documented medical condition, an alternative program will be based on the medical restrictions.				
Prerequisite: None				

Advanced Weight Lifting	Course 624	¼ Physical Education Credit	Semester Course	9th – 12th Grades
Advanced Physical Education includes weight training, flexibility, cardiovascular conditioning, plyometric training, nutrition, personal health and wellness. The student must bring shorts, wind pants, or sweatpants, a shirt, socks, and tennis shoes every day to change into for class. The students are **required** to "dress" and participate each class period. The instructor also reserves the right to remove any student with unsatisfactory effort from the class at any time. * This class may **ONLY** be repeated with **signed** permission from the instructor.				
Prerequisite: Approval by instructor				

Yoga	Course 625	¼ Physical Education Credit	Semester Course	9th – 12th Grades
Yoga will introduce students to the basic skills of yoga practice, breathing techniques, yoga etiquette, terminology and relaxation methods of yoga to promote a desire for lifetime physical activity and healthy leisure habits. Students will enjoy the benefits yoga and core training can provide by participation in this class. The course will focus on low impact activities to improve overall flexibility, strength, core and cardiovascular endurance. Reduction of stress and increased ability to focus can be an added benefit from regular yoga practice which can support management and improvement of the social-emotional health of participating students. Students will also develop an understanding of individual differences and acquire a non-competitive, positive self-image in regard to their own body and yoga practice. Students will be required to bring appropriate work out clothing to be worn during class activities and will be provided a personal yoga mat. Medical conditions do not exempt a student from the physical education requirement for graduation. If a student is unable to participate due to a documented medical condition, modified activities will be provided based on the students' medical restrictions. State fitness testing will be conducted at the beginning and end of the semester and all activities will align with the Ohio Standards for Physical Education.				
Prerequisite: None				

Science

Physical Science (210)	Environmental Science (214)
Physical Science Advanced (220)	Earth Science (212)
Biology (211)	Chemistry (232)
Biology Advanced (221)	Chemistry Advanced (233)
Astronomy (245)	Chemistry 2 Advanced (234)
Physics Advanced (241)	
Anatomy & Physiology Advanced (227)	

Physical Science	Course 210	1 Physical Science Credit	Full Year Course	9th Grade
Physical Science is designed to serve as a foundation course for other high school science courses. It is a laboratory course that integrates principles of chemistry and physics. It emphasizes inquiry-based learning, process skills, and higher order thinking skills. Instruction is based on the Ohio Science Curriculum Standards. Chemistry units include: composition of matter, atomic structure and periodic table, and chemical bonds and reactions together with basic nuclear chemistry. Physics units include: forces and motions; conservation of energy, electricity and magnetism; and wave phenomena, characteristics, behavior, including electromagnetic and sound waves. Because experimentation is the basis of science, laboratory investigations are an integral part of this course. Investigative, hands-on laboratory activities that address the high school inquiry standards are central to effective instruction in this course.				
Prerequisite: None				

Physical Science Advanced	Course 220	1 Physical Science Credit	Full Year Course	9th Grade
Advanced Physical Science will cover the same basic material as regular Physical Science, but will move more rapidly, with the exception of independent study by the student. The focus on work, energy, and Newton's laws of motion requires a higher level of understanding in math, particularly the ability to manipulate variables in algebraic equations.				
Prerequisite: B or better in 8th grade Science				

Biology	Course 211	1 Life Science Credit	Full Year Course	9th - 10th Grade
Biology covers various life science topics including cells, DNA, genetics, evolution, ecology, biomes, and how living things interact with the environment. Investigative, hands-on laboratory activities that address the high school inquiry standards are central to effective instruction in this course. Students will take a state-mandated End-of-Course Examination counting toward graduation credit.				
Prerequisite: Sophomore Standing or Freshmen with a B or better in 8th grade science				

Advanced Biology	Course 221	1 Life Science Credit	Full Year Course	9th - 10th Grade
Advanced Biology will cover various life science topics including cells, DNA, genetics, evolution, ecology, biomes, and how living things interact with the environment. Investigative, hands-on laboratory activities that address the high school inquiry standards are central to effective instruction in this course. The overall focus of this class will be the interconnection of all living things, with an emphasis on the effect of the human species historically and in the present time. Students will be expected to perform at a higher standard overall and will be expected to study independently outside of the classroom. Students will take a state-mandated End-of-Course Examination counting toward graduation credit. (4.25 weighted system)				
Prerequisite: A or better in 8th grade science and/or teacher recommendation.				

Environmental Science	Course	1 Science Credit	Full Year Course	11th - 12th Grade
The goal of this course is to provide students with the scientific principles to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, and to examine alternative solutions for resolving and/or preventing them. Environmental science is interdisciplinary and embraces a wide variety of topics from different areas of study. Topics to be explored include environmental economics and policy, human population growth, earth's systems and resources, energy, ecology, and environmental health. Students will conduct field studies, research, labs, and projects.				
Prerequisites: Physical Science or Chemistry and Biology				

Earth Science	Course 212	1 Science Credit	Full Year Course	11th – 12th Grades
This course is an examination of the Earth as a system within itself and as a part of the solar system, the Milky Way Galaxy and the Universe in which the Earth exists. Within the Earth both the abiotic and biotic realms and the interactions between them will be considered. The history of the Earth over 4.6 billion years of development will be studied to determine the changes that have resulted in the planet humans inhabit in the present. In all these areas this will be a science course using the principles of scientific ways of knowing the Earth and its environments.				
Prerequisites: Biology and (Physical Science or Chemistry)				

Anatomy & Physiology Advanced	Course 227	1 Life Science Credit	Full Year Course	11th – 12th Grades
Anatomy & Physiology is an advanced course for students pursuing a career in nursing, physical therapy, or any other medical degree. In this course, students will explore the different aspects of human anatomy and how our cellular and organ systems work together. The methodology of this course will utilize lecture, research writing, dissection, and vocational field-trip experiences. Topics covered include cells, body systems (muscular, skeletal, etc), advanced evolution, genetics, and microbiology. (4.5 weighted system).				
Prerequisites: Advanced Biology or Biology with teacher recommendation				

Chemistry	Course 232	1 Physical Science Credit	Full Year Course	10th – 12th Grades
Chemistry is a mathematics-based science. This course will introduce major chemistry principles while building on concepts introduced in Physical Science. Through well-designed lab experiences students will master concepts, use problem solving skills, and apply them to real-world situations. Investigative, hands-on lab activities that address the Ohio Inquiry standards are an integral part of this course. Topics to be covered include the periodic table, naming compounds and writing chemical formulas, chemical equations and reactions, bonding, calculation of chemical quantities, stoichiometry, properties and behaviors of gases and solutions, and nuclear chemistry. (4.25 weighted system).				
Prerequisite: C or better in Algebra I				

Advanced Chemistry	Course 233	1 Physical Science Credit	Full Year Course	10th – 12th Grades
Advanced Chemistry is a mathematics-based science. This course will introduce major chemistry principles while building on concepts introduced in Physical Science. Through well-designed lab experiences students will master concepts, use problem solving skills, and apply them to real-world situations. Investigative, hands-on lab activities that address the Ohio Inquiry standards are an integral part of this course. Topics to be covered include the periodic table, naming compounds and writing chemical formulas, chemical equations and reactions, bonding, calculation of chemical quantities, stoichiometry, properties and behaviors of gases and solutions, and nuclear chemistry. This is a more rigorous chemistry course, requiring additional mathematical experience, and a greater commitment from the student. The course includes the content described in the Chemistry course with additional emphasis on advanced topics for the college bound. (4.5 weighted system)				
Prerequisites: B or better in Algebra I and Teacher Permission				

Chemistry 2 Advanced	Course 234	1 Physical Science Credit	Full Year Course	11th - 12th Grade
This course is a sequel to Chemistry 1 with an emphasis on problem-solving, mathematical and real-world applications of chemistry via lab experiences. Topics included in the course are: a review of nomenclature, stoichiometry, and bonding; equilibrium; an acid base chemistry and pH; organic chemistry; thermodynamics; and electrochemistry. With the accelerated pace of an honors class, students will have opportunities to enrich their knowledge and understanding by exploring content standards at a deeper level. Projects and lab reports will be required. (4.5 weighted system)				
Prerequisites: Advanced Chemistry or Chemistry with teacher recommendation; Pre-Calculus or concurrent enrollment in Pre-Calculus or AP Calculus.				

Physics Advanced	Course 241	1 Science Credit	Full Year Course	11^{th} - 12^{th} Grade
Physics is intended for students with an interest in the physical world and a college-oriented career path, especially engineering. Physics explores kinematics, dynamics, energy, waves, light, electricity, and magnetism. There is a strong emphasis on laboratory work and analysis. Problem solving is encouraged by the use of relevant physics materials and inquiry-based laboratory materials. This advanced level course emphasizes a mathematical approach with extensive laboratory experiences, research and projects. This is graded on a 4.5 weighted system.				
Prerequisites: B or better in Algebra II and Geometry or teacher recommendation				

Astronomy	Course 245	1 Science Credit	Full Year Course	11^{th} - 12^{th} Grade
Astronomy is a class designed to foster the student's interest in the universe through scientific investigations. The concepts will be investigated through what can be observed in the sky. Beginning with the unaided eye and progressing to simple instruments. The history of astronomical discoveries will give a human context for the material and demonstrate the interaction between scientists. The understanding of our solar system will lead students to an appreciation of the universe of stars, nebulae and galaxies. Cosmological themes of the beginning of the universe will develop an understanding of the likely futures of the universe. Throughout the course current events in the field of space exploration will be presented and discussed.				
Prerequisites: 3 credits in any science course or concurrent enrollment while in 3^{rd} science credit				

The following pathways are reflective of typical students. Based on grades and teacher recommendations, students may move between tiers.

Recommended for general education students:

9^{th} Grade	10^{th} Grade	11^{th} and 12^{th} Grade
Physical Science	Biology	Chemistry
		Earth Science
		Astronomy
		Environmental Science

*Student can also complete their science graduation requirement by passing Physical Science, Biology, and 2 years of agricultural science.

Recommended for Honors level:

9^{th} Grade	10^{th} Grade	11^{th} and 12^{th} Grade
Biology Advanced	Chemistry Advanced	Chemistry Advanced 2
		Physics Advanced
		Anatomy & Physiology Advanced

Social Studies

Modern World History (120)	Psychology (119)	AP European History (124)
U.S. History (121)	American Government (142)	AP Government (140)
World Geography (117)	Contemporary World History (126)	History of Sports (122)
History through Film (123)	Adv. Modern World History (124)	Vietnam War Analysis (125)

U.S. History	Course 121	1 Social Studies Credit	Full Year Course	9th Grade
Ninth grade students will chronologically study the history of the United States with an emphasis on domestic affairs from 1877 through the late 20th century. As students study historical eras, they consider the geographic, cultural, economic and governmental changes that have occurred. Students develop a deeper understanding of their role as citizens and continue to expand their command of social study skills and methods. Course topics and content are aligned with Ohio's New Learning Standards for American History and students will take a computer-based assessment at the end of the year to determine content mastery. This course is required for all 9th graders.				
Prerequisite: 9th Grade Status				

Modern World History (1600 – Present)	Course 120	1 Social Studies Credit	Full Year Course	10th Grade
Tenth-grade students will chronologically study historical aspects from all over the world from the Age of Enlightenment through the late 20th century. Modern World History incorporates each of the seven social study content standards as aligned through Ohio's New Learning Standards. As students study historic eras, they consider the influence of geographic settings, cultural perspectives, economic systems and various forms of government. Students develop a deeper understanding of the role of citizens and continue to develop their research skills. This course is required for all 10th graders.				
Prerequisite: 10th Grade Status				

Advanced Modern World History	Course 124	1 Social Studies Credit	Full Year Course	10th Grade
Advanced Modern World History consists of the same basic material listed for Modern World History; however, this course will include a more in-depth analysis of the history of the world from the Age of Enlightenment to present day. Advanced Modern World History will place an emphasis on the relationship between past events and current affairs; helping students answer the question "why does this matter today?". The course is designed to serve the needs of both college and career readiness by assisting students in understanding the diversity and connectedness of the world around them. Advanced Modern World History is recommended for students who exceled in U.S. History and/or have a strong interest in history.				
Prerequisite: U.S. History teacher recommendation and at least a "B" average in U.S. History				

American Government	Course 142	1 Social Studies Credit	Full Year Course	11th Grade
American Government is a graduation requirement. The course will study the American political system at all levels with an emphasis on the federal government and the Constitution. Students are required to pass a state mandated, end of course test. This course is required for all 11th grade students.				
Prerequisite: Junior Standing				

AP Government	Course 140	1 Social Studies Credit	Full Year Course	11th Grade
This course will be an in-depth study of government and politics in the United States. It will include both the study of general concepts in government and politics, and an analysis of specific examples both historical and current. Students should have a strong background in political/historical events and a desire to look deeper into how these events have shaped the American political process. This course will require in-depth reading, writing, and daily participation in intellectual class discussion. Current events will play a major role in this course. Students must take an Advanced Placement College Level Exam at the end of the course for college credit.				
Prerequisite: 3.0 or higher cumulative GPA				

World Geography	Course 117	½ Elective Credit	Semester Course	11th – 12th Grades
World Geography is a semester course that will focus on numerous geography skills related to the physical earth and the people who inhabit it. The course will study different regions, countries, and cultures within the context of the contemporary world.				
Prerequisite: None				

Psychology	Course 119	½ Elective Credit	Semester Course	11th – 12th Grades
Psychology is the scientific study of the mind and behavior. Students will gain the basic understandings about various topics including patterns of life, mental health, and how social and physical environments affect behavior. This course involves mature class discussions about difficult topics.				
Prerequisite: None				

History of Sports	Course 122	½ Elective Credit	Semester Course	11th – 12th Grades
This history elective will examine how the American culture has developed a special and unique love/ hate relationship with sports. Students will learn to gain a greater comprehension of the social, economic and cultural influence that sports has had on the American society. We will examine the history of many different sports, and how they have evolved throughout time. Students will do historical research through differing primary and secondary sources, videos and speeches. This course will be broken down into lectures, current events reading, examination of historical documentaries and readings, as well as class wide discussion.				
Prerequisite: None				

History through Film	Course 123	½ Elective Credit	Semester Course	10th – 12th Grades
History through Film is a semester course designed to evaluate historical accuracy of modern motion picture films. Students will be asked to think like a historian as we analyze cause, effect, sequence and correlation to historical events. Each film will be introduced through the use of primary and secondary sources, investigative research and discussion. Following the viewing of the film, students will be asked to make connections to past and present events, collaborate with their peers, research, write about, and discuss the film. History through Film allows students to delve further into historical topics and seek new understanding of challenging and less-understood moments in US history.				
Prerequisite: Successful completion of U.S. History				

Contemporary World History	Course 126	½ Elective Credit	Semester Course	10th - 12th Grade
Contemporary World History is a course designed to engage and prepare students to analyze governments, people and cultures from around the world. Instruction will begin with some basic knowledge and understanding of history. It will then emphasize on the structures and policies of the United States in comparison with other international communities. Students apply critical thinking and research skills to examine current events and contemporary issues, including human rights, globalization, America's role in the international economy, environmental issues in different regions, religion and how it is often used to facilitate and justify violence and behavior, "War on Terror" and more.				
Prerequisite: None				

Critical Analysis of Vietnam War	Course 125	½ Elective Credit	Semester Course	10th - 12th Grade
This course will consist of researching, learning and understanding differing areas of the Vietnam war. This course will allow for a more in depth look at the war as opposed to the general look from U.S & World History. The base lessons involved in the course will be Vietnamese culture and history, the French in Vietnam, American Cold War foreign policy, American & Vietnamese perspectives on the war, and the American Anti-War movement. The course will include multiple readings from first hand perspectives and a Vietnam War textbook. We will also study the PBS documentary, The Vietnam War, by Ken Burns and Lynn Novick, as a supplemental guide throughout the course.				
Prerequisite: None				

Technology Education

Machine Tools (543)
Welding Technology (544)
Consumer Maintenance (549)
Architecture Design (547)
Manufacturing Operations (548)

Machine Tools	Course 543	1 Elective Credit	Full Year Course	9th – 12th Grades
This course will be an introduction to the many aspects of modern woodworking technology. Basic shop knowledge and skills will be taught using hands on practices, though the completion of a variety of woodworking projects. Shop safety and good work habits will be stressed throughout the course. This course will be a good prerequisite for those considering vocational school.				
Prerequisite: None				

Welding Technology	Course 544	1 Elective Credit	Full Year Course	9th – 12th Grades
This course will be an introduction to the many aspects of modern metalworking technology. Basic shop knowledge and skills will be taught using hands on practices, though the completion of a variety of metalworking projects. Shop safety and good work habits will be stressed throughout the course. This course will be a good prerequisite for those considering vocational school.				
Prerequisite: None				

Architecture Design	Course 547	1 Elective Credit	Full Year Course	10th – 12th Grades
Advanced Woodworking is an upper-level course designed for the student with an interest in woodworking. In this class students will be refining there woodworking skills by building a required furniture project. Students will also be allowed to plan, create drawings, and construct a piece of furniture in the style of his/her choice. All lumber and hardware cost will be the responsibility of the student for that project.				
Prerequisite: Machine Tools				

Manufacturing Operations	Course 548	1 Elective Credit	Full Year Course	10th – 12th Grades
Advanced Metalworking is an upper-level course designed for the student with an interest in metalworking. In this class students will be refining there metalworking skills by building a required metal project. Students will also be allowed to plan, create drawings, and construct a metal project of his/her choice. All material cost will be the responsibility of the student for that project.				
Prerequisite: Welding Technology				

Consumer Maintenance	Course 549	½ Elective Credit	Semester Course	11th – 12th Grades
Consumer Maintenance is a course designed to teach students basic automotive and household maintenance, though the use of hands-on activities. Part 1: Students will fully understand the workings of the internal combustion engine and the systems that make up the modern automobile. Activities will include taking apart and putting back together a small engine. As well as changing oil, checking fluids, checking tire pressures, changing and repairing flat tires, checking batteries/ alternator, checking and replacing lights. Part 2: Students will be exploring the most common household items that require regular maintenance and repair. Activities will include wiring common household electrical circuits, fixing common plumbing problems, repairing and painting walls, and refinishing woodwork.				
Prerequisite: None				