

# **UTICA HIGH SCHOOL COURSE SELECTION GUIDE**

## **2025-2026**



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

Revised 2/2025

# North Fork School District Vision Statement

“Provide and inspire achievement and accountability that maximizes quality learning”

## Course Selection Matters

Choosing the right courses shapes college and career opportunities.

High school lays the foundation for future success.

8th & 9th Graders: Focus on electives that match interests and strengths.

10th & 11th Graders: Prioritize courses that align with future goals.

Keep challenging yourself!

College Credit Plus courses are great preparation for college.

## For Parents:

Talk to your student about their career interests and potential post-secondary education. Discuss their past courses—what they’ve enjoyed and excelled in—to guide future choices. Communication is key!

## For Students:

Take advantage of UHS opportunities! Speak with teachers, counselors, and your parents about your goals. We’re here to support your success.

UHS runs on a 10-period day. Students must enroll in at least 7 periods per semester.

## Counseling Office

Our school counselors are here to help students make informed decisions for their future.

Alex Keith, Student Services: Student Last Names A-M

Email: [akeith@northfork.k12.oh.us](mailto:akeith@northfork.k12.oh.us)

Dinah Rice, School Counselor: Student Last Names N-Z

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# General Information

## Course Credit

Credit for year-long courses is awarded only after successful completion of the full year. Students will not receive partial credit for a single semester. If a student fails the course, they must repeat the entire year, not just the failed semester.

## Drop/Add Courses

Students wanting to change their schedule must meet with their counselor before the semester begins. Changes will only be made for schedule errors, such as missing class periods or double-booked classes.

After the semester starts, changes are allowed within the first five days. Students who drop a class after this period will receive a withdraw/fail on their transcript.

## Athletic Eligibility

To participate in athletics, students must meet OHSA (Ohio High School Athletic Association) academic requirements. This includes passing at least five courses per grading period (excluding PE).

The athletic director is responsible for verifying eligibility.

## NCAA Eligibility

Students interested in playing Division I or II college sports must meet NCAA academic and eligibility requirements. Certification is required through the NCAA Eligibility Center. Visit [www.eligibilitycenter.org](http://www.eligibilitycenter.org) for more information or talk to your school counselor.

## PE Waiver

Students who complete two full seasons of an approved activity—interscholastic sports, marching band, bowling, or cheerleading—may waive the physical education requirement. To qualify, students must submit the PE Waiver Form to their counselor by September 1 of the school year they begin the waiver. Students choosing this option must complete  $\frac{1}{2}$  credit (60 hours) in another course to fulfill graduation requirements.

## Advanced Placement (AP) Courses

AP courses offer college-level curriculum and the opportunity to earn college credit through AP Exams. These courses emphasize critical thinking, problem-solving, and discussion-based learning rather than memorization. Taking AP classes can help students stand out in the college admissions process and better prepare for college coursework. Most four-year colleges grant credit or advanced placement based on AP exam scores.

## College Credit Plus (CCP)

CCP allows students in grades 7-12 to take college courses for free at state-supported colleges/universities. Private colleges may charge fees. To participate, students must:

- Attend a mandatory informational meeting
  - Submit an intent to participate form by April 1
  - Complete all required college application materials, including qualifying ACT or ACCUPLACER scores
- For more information, visit Ohio Higher Ed CCP Website or speak with your counselor.

## College Visits

Juniors may take one excused college visit day

Seniors may take two excused college visit days

Students must obtain a College Visit Permission Form from the counseling office and submit it to the main office after their visit. These excused absences do not count against student attendance.

## C-TEC Process

Sophomores interested in C-TEC (Career & Technology Education Centers) must apply by the first Friday in February. Applications become available after Sophomore Hands-On Day (late November/early December) and must be submitted online via the C-TEC website.

Acceptance decisions are typically released during Spring Break.

### C-TEC Eligibility

Students must complete the following by the end of sophomore year to attend C-TEC:

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

Failure to complete these may result in additional costs for credit recovery. Some C-TEC programs have minimum GPA requirements—check with your counselor or C-TEC for details.

## Weighted Academic Point System

Some courses are more challenging than others, so Utica High School uses a weighted GPA system to reward students who take advanced classes. College Credit Plus (CCP) courses that replace weighted classes at UHS will also receive weighted GPA points. This system encourages students to challenge themselves without worrying about their GPA being negatively affected.

The weighted system adds extra points based on the course level:

System	Grade = Points	Courses Included
Regular System	A = 4.0 B = 3.0 C = 2.0 D = 1.0 F = 0	All courses except those listed below
+0.25 Weight	A = 4.25 B = 3.25 C = 2.25 D = 1.25 F = 0	Advanced English 9, 10, 11, & 12 Modern World History Advanced Advanced Geometry Advanced Algebra 2 Advanced Biology Chemistry
+0.5 Weight	A = 4.5 B = 3.5 C = 2.5 D = 1.5 F = 0	Advanced Anatomy/Physiology Advanced Chemistry & Chemistry 2 Advanced Physics Pre-Calculus Spanish III, IV, & V College Algebra (CCP) Intro to Statistics (CCP) Calculus (CCP)
+1.0 Weight	A = 5.0, B = 4.0, C = 3.0, D = 2.0, F = 0	AP Government



# Graduation Requirements

## CREDITS

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4 credits.....	English
4 credits.....	Math (1 credit of Algebra 2 or equivalent)
3 credits.....	Science (1 Physical & 1 Biological)
3 credits.....	History (US History, World History, Government)
.5 credit.....	Health
.5 credit.....	Physical Education
.5 credit.....	High School 101
.5 credit.....	Software Apps (Class of 2025)
	Financial Literacy (Class of 2026 & beyond)
5 credits.....	Electives (Must include 1 credit in Fine Arts)
.25 credit.....	Service Learning (30 Hours)

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## COMPETENCY

Algebra 1 (End of Course State Test) must score 684 or higher  
 English 10 (End of Course State Test) must score 684 or higher

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## DIPLOMA SEALS

Students must earn 2 Diploma Seals. *One State-Defined and One Locally-Defined*

### State-Defined



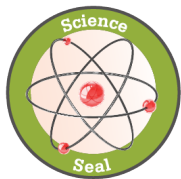
### Locally-Defined



State Seal Criteria is listed on the next page

# STATE OF OHIO DIPLOMA SEALS

## STATE-DEFINED SEALS



### Science Seal:

Meet at least one of the following:

1. Earn a final course grade of "B" or higher in an Advanced Science course
2. Earn a score of proficient on Ohio's State Test in Biology
3. Earn a score equivalent to proficient on an appropriate Advanced Placement or International Baccalaureate science test
4. Earn a "B" or higher in a College Credit Plus science course.



### Citizenship Seal:

Meet one of the American History options and one of the American Government options:

American History options:

1. Earn a final course grade of "B" or higher in an American History course
2. Earn a score of proficient or higher on Ohio's State Test in American History
3. Earn a score equivalent to proficient on an appropriate AP test in US History
4. Earn a "B" or higher in appropriate American History College Credit Plus course.

American Government options:

1. Earn a final course grade of a "B" or higher in an American Government course
2. Earn a score of proficient or higher on Ohio's State Test in American Government
3. Earn a score equivalent to proficient on an appropriate AP test in US Government
4. Earn a "B" or higher in appropriate American Government College Credit Plus course



### Military Seal:

Must complete one of the following:

- Show evidence of enlistment in a branch of the armed services
- Participate in a junior reserve officer training corps (JROTC) program for at least 2 school years
- Provide evidence student accepted scholarship to enter the reserve officer training corps
- Evidence of appointment into a United States military service academy.



### College-Ready Seal:

- Earn remediation-free scores on the ACT or SAT
- English 18; Reading 22; Math 22



### Ohio Means Jobs Seal:

- Meet requirements and criteria established for demonstrating work-readiness and professional competencies
- Complete 2-page verification form



### Honors Diploma Seal:

Must earn one of six honors diplomas:

- Academic Honors Diploma
- Career-Tech Honors Diploma
- International Baccalaureate Honors Diploma
- STEM Honors Diploma
- Arts Honors Diploma
- Civics and Social Sciences Honors Diploma



### Industry-Recognized Credential Seal:

Must do one of the following:

- Earn a 12-point industry-recognized credential
- Earn a group of credentials totaling 12 points in a single career field
- Obtain a state-issued license for a practice in a vocation that requires an examination



### Biliteracy Seal:

- Meet criteria of proficiency on assessments in a world language and in English



### Technology Seal:

Must satisfy at least one of the following:

- Earn a score equivalent to proficient on an appropriate Advanced Placement or International Baccalaureate test
- Earn a "B" or higher in an appropriate College Credit Plus technology course

## LOCALLY-DEFINED SEALS



### Community Service Seal:

- 30 hours of Service Learning
- 2-page Reflection Paper



### Student Engagement Seal:

- Must complete one of the following:
- Participate in 3 years of FFA
  - Participate in 3 seasons of athletics
  - Participate in 3 seasons of band, choir, or participate in musical/theater productions



### Fine Arts Seal:

Must complete one of the following:

- Earn 2 credits in Fine Art subject-based courses
- Participate in 2 years of Band or Choir
- Participate in 2 musical/theater productions

# Academic Honors Diploma

## Class of 2026 and Beyond

<u>Requirements</u> (Must meet all but one)	<u>State Minimum</u> May substitute ONE of the World Language, GPA, or ACT/SAT requirements with a "Student Strength Demonstration".			<u>Met</u>	<u>Not Met</u>
Math	Fourth math must be higher than Algebra 2				
Science	One additional unit of Advance Science				
Social Studies	One additional credit of Social Studies				
Seal Requirement	Earn 2 additional diploma seals, not including the Honors Diploma Seal *Students can use OMJ Readiness Seal in 2 additional seals requirement if it is not used in Experiential Learning*				
Experiential Learning	Field Experience, Ohio Means Job Seal, Portfolio, or Work Based Learning (250 hours)				
World Language	Three sequential credits of one world language, or no less than 2 credits of two world languages studied	or	<b>Can only have ONE substitute:</b>		
			<input type="checkbox"/> Student Strength Demonstration: _____		
GPA	3.5 on a 4.0 scale (unweighted)	or	<input type="checkbox"/> Student Strength Demonstration: _____		
ACT/SAT	ACT score of 27 or higher, SAT score of 1280 or higher (Super scores may be used)	or	<input type="checkbox"/> Student Strength Demonstration: _____		

**Student Strength Demonstration Options: 12 total credit hours of CCP Courses; 3 AP courses with a score of 3 or hight on the AP test; 12 total credits in Career-Technical Assurance Guide; Apprenticeship/Pre-Apprenticeship-Completion or Evidence of Acceptance if required to be older than 18 ; complete the WorkKeys test**

## Academic Honors Diploma: Planning Guide

Requirements	Use the following grid to plan your pathway to an Academic Honors Diploma!			
<u><b>Math</b></u>	Algebra I	Geometry	Algebra 2	Higher Math
<u><b>Science</b></u>	Phys. Science/Chemistry	Biology	Advanced Science	Advanced Science
<u><b>Social Studies</b></u>	American History	World History	American Government	Additional SS Course
<u><b>Seal Requirement</b></u> <ul style="list-style-type: none"> <li>Honors Diploma Seal does not count toward additional seals needed</li> <li>Students can use OMJ Readiness Seal if it is not used in Experiential Learning</li> </ul>	Seal # 1 _____	Seal #2 _____	Seal #3 _____	Seal #4 _____
<u><b>Experiential Learning</b></u>	Field Experience	Ohio Means Job Seal	Work Based Learning (250 Hours)	Portfolio
<u><b>World Language</b></u>	World Language 1	World Language 2	World Language 3	



# UTICA HIGH SCHOOL COURSE PLANNING

## 's HIGH SCHOOL 4-YEAR PLAN

<u>9th Grade</u>	<u>10th Grade</u>	<u>11th Grade</u>	<u>12th Grade</u>	<b>Grad. Requirements</b>
English 9 English 9 Adv.	English 10 English 10 Adv.	English 11 English 11 Adv.	English 12 English 12 Adv.	4 Credits Minimum for Graduation
Math I (Algebra I) Algebra I Geometry Geometry Adv.	Math II (Algebra II) Geometry Geometry Adv. Algebra II Algebra II Adv.	Math III (Geometry) Geometry Algebra II Algebra II Adv. Pre-Calculus College Algebra (CCP) Intro To Stats (CCP)	Math IV (Statistics) Trans To College Math Pre-Calculus Calculus College Algebra (CCP) Intro To Stats (CCP)	4 Credits Minimum for Graduation
Physical Science Physical Science Adv. Biology Adv.	Biology Biology Adv. Chemistry Chemistry Adv.	Chemistry Chemistry Adv. Chemistry II Adv. Physics Adv. Earth Science Environmental Science Anatomy Adv.	Chemistry Chemistry Adv. Chemistry II Adv. Physics Adv. Anatomy Adv. Astronomy Env. Science	3 Credits Minimum for Graduation
US History	Mod. World History Mod. World History Adv.	Government AP Government	Psychology World Geography History through Film History Of Sports Analysis of Vietnam War	3 Credits Minimum for Graduation
Foreign Language Elective	Foreign Language Elective	Foreign Language Elective	Foreign Language Elective	2 Credits Recommended for College Admissions
Physical Education	Physical Education			½ Credit Needed for Graduation
Health				½ Credit Needed for Graduation
High School 101				½ Credit Needed for Graduation
	Financial Literacy			½ Credit Needed for Graduation
Elective(s)  _____  _____	Elective(s)  _____  _____	Elective(s)  _____  _____	Elective(s)  _____  _____	5 Credits Needed for Graduation  **1 Credit of Fine Art Elective Needed for Graduation**
30 Hours of Service Learning Must Be Completed by May 1 of Senior Year				1/4 Credit Needed 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 low student registration for the course, a lack of certified staff, or administrative decisions.

The Course Request Sheet lists the available courses for each grade level.



# AGRICULTURAL EDUCATION

Agriculture, Food and Natural Resources (530)  
Animal and Plant Science (533)  
Natural Resources (536)

Agricultural and Environmental Systems Capstone (531)  
Business Management for Agricultural (537)  
Livestock Selection, Nutrition, and Management (540)

## 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 \$20 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.



Course Name	Course Number	Credits	Length of Course	Prerequisites
<b>Agriculture, Food and Natural Resources</b>	530	1 ¼ Elective Credit	Full Year	9th-12th Grade (Best fit for 9th)
<p>Course Description: 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 &amp; management, plant &amp; 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.</p>				
<b>Animal and Plant Science</b>	533	1 ¼ Elective Credit	Full Year	10th–12th Grade (Best fit for 10th) AFNR Recommended
<p>Course Description: 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.</p>				
<b>Business Management for Agricultural and Environmental Systems</b>	537	1 ¼ Elective Credit	Full Year	11th & 12th Grade
<p>Course Description: 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.</p> <p><b>This course will be offered ONLINE for students who are attending CTEC/KCCC.</b></p>				
<b>Livestock Selection, Nutrition, and Management</b>	540	1 ¼ Elective Credit	Full Year	11th & 12th Grade AFNR Recommended
<p>Course Description: 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.</p>				

Course Name	Course Number	Credits	Length of Course	Prerequisites
<b>Agricultural and Environmental Systems Capstone</b>	531	1 ¼ Elective Credit	Full Year	12th Grade AFNR
<p>Course Description: 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.</p> <p><b>This course will be offered ONLINE for students who are attending CTEC/KCCC.</b></p>				
<b>Natural Resources</b>	536	1 ¼ Elective Credit	Full Year	11th-12th Grade
<p>Course Description: 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.</p>				
<b>Agricultural Mechanics</b>	539	.5 Elective Credit	Semester	9th-12th Grade
<p>Course Description: Students will engage in the mechanical principles utilized in animal and plant production systems. They will learn electrical theory, design, wiring, hydraulic and pneumatic theory, along with metallurgy in relation to hot and cold metals. Students will apply knowledge of sheet metal fabrication applicable to the agricultural industry along with identify, diagnose, and maintain small, air-cooled engines. Throughout the course, students will learn critical components of site and personal safety as well as communication and leadership skills.</p>				
<b>Environmental Science for Agriculture</b>	534	1 ¼ Elective Credit	Full Year	11th-12th Grade
<p>Course Description: Students will study relationships between organisms in an ecosystem and the impact of those relationships on the environment. Students will investigate how different ecosystems function and respond to changes in various biological, chemical, and geological processes. Students will examine fundamentals of resource development, agriculture sustainability, energy needs and pollution control. Students will develop a basic understanding of the scientific method and learn to analyze and interpret data gathered from studies on the ecosystem. Throughout this course, students will develop responses to current and historic environmental problems and develop management strategies for responsible conservation and development of resources to meet world demand.</p>				
<b>Agricultural Leadership</b>	541	1 Elective Credit	Full Year	10th-12th Application Required
<p>Course Description: 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.</p>				

# ART

Drawing & Painting I (611)  
 Drawing & Painting II (612)  
 Drawing & Painting III (613)

Ceramics & Sculpture I (614)  
 Ceramics & Sculpture II (615)  
 Ceramics & Sculpture III (616)

Visual Art Composition (618)  
 Digital Photography (610)

Course Name	Course Number	Credits	Length of Course	Prerequisites
<b>Drawing &amp; Painting I</b>	611	½ Fine Arts Credit	Semester	9th–12th Grade
Course Description: Drawing & Painting I 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.				
<b>Drawing &amp; Painting II</b>	612	½ Fine Arts Credit	Semester	9th–12th Grade Drawing & Painting I
Course Description: Drawing & Painting II is a continuation of Drawing & Painting I 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.				
<b>Drawing &amp; Painting III</b>	613	½ Fine Arts Credit	Semester	10th–12th Grade Drawing & Painting I & II
Course Description: Drawing & Painting III is a continuation of Drawing/Painting II with more advanced procedures being taught. This class will focus on creating a portfolio and working in a collection or set of works. Course may be repeated with Instructor and Counseling Dept. approval. Sketchbooks are required for this course.				
<b>Ceramics &amp; Sculpture I</b>	614	½ Fine Arts Credit	Semester	9th–12th Grade
Course Description: Ceramics I will cover the 3-dimensional study clay. We 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 clay and appropriate tools/materials.				
<b>Ceramics &amp; Sculpture II</b>	615	½ Fine Arts Credit	Semester	9th – 12th Grade Ceramics & Sculpture I
Course Description: Ceramics II is a continuation of Ceramics I 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.				

<b>Course Name</b>	<b>Course Number</b>	<b>Credits</b>	<b>Length of Course</b>	<b>Prerequisites</b>
<b>Ceramics &amp; Sculpture III</b>	616	½ Fine Arts Credit	Semester	10th – 12th Grade Ceramics & Sculpture I & II
Course Description: Ceramics III is a continuation of Ceramics II 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. Course may be repeated with Instructor and Counseling Dept. approval.				
<b>Visual Art Composition</b>	618	1 Fine Arts Credit	Full Year	11th – 12th Grades Drawing & Painting I & II Teacher Permission
Course Description: 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: \$40				
<b>Digital Photography</b>	610	1 Fine Arts Credit	Full Year	10th– 12th Grade
Course Description: This course is for disciplined, creative, and self-motivated students with a passion for learning. It offers advanced, self-directed instruction in digital photography, covering editing, marketing, and portfolio creation. Students will explore the work of professional photographers, print and upload images, and engage with guest speakers to learn about the business side of photography. Additionally, students will contribute to the UHS Yearbook and Redskin Rumbling, capturing photos in and out of class. Daily access to a DSLR camera is required. A course contract must be signed by a parent/guardian. Class Fee: \$40				

# COMPUTER TECHNOLOGY

Intro to Computer Science I

CTA I (Hardware) (660)

CTA II (Hardware) (661)

CTA III (Operating System) (662)

CTA IV (Operating System) (663)

Computer Technician I (672)

Computer Technician II (673)

Course Name	Course Number	Credits	Length of Course	Prerequisites
<b>Intro to Computer Science I</b>	651	½ Elective Credit	Semester	9th–12th Grade
Course Description: Intro to Computer Science 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.				
<b>CTA I (Hardware)</b>	660	½ Elective Credit	Semester	9th–12th Grade
Course Description: 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.				
<b>CTA II (Hardware)</b>	661	½ Elective Credit	Semester	9th–12th Grade CTA I (Hardware)
Course Description: CTA II introduces students to the basics of managing, maintaining, and troubleshooting hardware. Students will be introduced to installing input/output devices, multimedia devices, etc.				
<b>CTA III (Operating Systems)</b>	662	½ Elective Credit	Semester	11th–12th Grade CTA I & II (Hardware)
Course Description: 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.				
<b>CTA IV (Operating Systems)</b>	663	½ Elective Credit	Semester	11th–12th Grade CTA I, II, & III
Course Description: 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.				
<b>Computer Technician I</b>	672	½ Elective Credit	Semester	12th Grade CTA I & II (Hardware) Instructor Approval
Course Description: 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.				
<b>Computer Technician II</b>	673	½ Elective Credit	Semester	12th Grade Computer Technician I Instructor Approval
Course Description: Computer Technician II designed to offer students who have completed Computer Technician I 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.				



English 9 (010)  
 English 9 Adv. (012)  
 English 10 (015)  
 English 10 Adv. (017)

# ENGLISH

English 11 (020)  
 English 11 Adv. (033)

English 12 (021)  
 English 12 Adv. (038)

## English Electives:

Great Books on Film (043)  
 Communications I (023)  
 Communications II (026)  
 Journalism

Course Name	Course Number	Credits	Length of Course	Prerequisites
<b>English 9</b>	010	1 English Credit	Full Year	9th Grade
Course Description: 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.				
<b>English 9 Advanced</b>	011	1 English Credit	Full Year	9th Grade 8th Grade Teacher Rec.
Course Description: This course consists of the same basic material as English 9; however, this course will include more exposure to classic literature. Reading and writing projects will be more intense, and expectations for independent study will be higher. This course will also stress vocabulary development and writing enhancement. Students should expect independent reading, accelerated pacing, and increased rigor. <b>*4.25 Weighted Course*</b>				
<b>English 10</b>	015	1 English Credit	Full Year	10th Grade
Course Description: 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.				
<b>English 10 Advanced</b>	017	1 English Credit	Full Year	10th Grade 9th Grade Teacher Rec.
Course Description: This course will consist of the same basic material as English 10; 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. <b>*4.25 Weighted Course*</b>				
<b>English 11</b>	020	1 English Credit	Full Year	11th Grade
Course Description: 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.				
<b>English 11 Advanced</b>	033	1 English Credit	Full Year	11th Grade
Course Description: This course is an exploration of a range of American Literature 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. <b>*4.25 Weighted Course*</b>				

Course Name	Course Number	Credits	Length of Course	Prerequisites
<b>English 12</b>	021	1 English Credit	Full Year	12th Grade
Course Description: 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 research topics, evaluate sources, and compile and present their findings.				
<b>English 12 Advanced</b>	038	1 English Credit	Full Year	12th Grade
Course Description: 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. <b>*4.25 Weighted Course*</b>				

## ENGLISH ELECTIVES

Course Name	Course Number	Credits	Length of Course	Prerequisites
<b>Great Books On Film</b>	043	½ Elective Credit	Semester	10th-12th Grade
Course Description: 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, and complete an independent research project.				
<b>Communications I</b>	023	½ Elective Credit	Semester	10th – 12th Grade
Course Description: 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.				
<b>Communications II</b>	026	½ Elective Credit	Semester	10th-12th Grade Communications I
Course Description: 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.				
<b>Creative Writing</b>	028	½ Elective Credit	Semester	10th–12th Grade
Course Description: 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.				

# FOREIGN LANGUAGE

Spanish I (081)  
Spanish II (082)

Spanish III (083)  
Spanish IV (084)

Course Name	Course Number	Credits	Length of Course	Prerequisites
Spanish I	081	1 Foreign Language Credit	Full Year	8th–11th Grade Corequisite: English 8 or 9 Adv. C Average in English
<p>Course Description: 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.</p>				
Spanish II	082	1 Foreign Language Credit	Full Year	9th–12th Grade C or higher in Spanish I
<p>Course Description: 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.</p>				
Spanish III	083	1 Foreign Language Credit	Full Year	10th–12th Grade C or higher in Spanish II
<p>Course Description: 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.</p> <p><b>*4.5 Weighted Course*</b></p>				
Spanish IV	084	1 Foreign Language Credit	Full Year	11th–12th Grade B or higher in Spanish III
<p>Course Description: 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. Students will also have a better understanding of the Spanish-speaking cultures. <b>*4.5 Weighted Course*</b></p>				

# HEALTH & HIGH SCHOOL 101

Health (631)

High School 101 (665)

Course Name	Course Number	Credits	Length of Course	Prerequisites
<b>Health</b>	631	½ Health Credit	Semester	9th Grade
<p>Course Description: 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 focuses on personal habits that promote healthy lifestyles that reduce the risk of disease. Topics will include stress/weight management, nutrition, the effects of sugar &amp; 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.</p>				
<b>High School 101</b>	665	½ High School 101 Credit	Semester	9th Grade
<p>Course Description: 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.</p>				

# PHYSICAL EDUCATION

Recreational PE (621)

Advanced Weightlifting (624)

Competitive PE (623)

Yoga (625)

Personal Fitness (622)

Course Name	Course Number	Credits	Length of Course	Prerequisites
<b>Recreational PE</b>	621	¼ P.E. Credit	Semester	9th–12th Grade
<p>Course Description: 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.</p>				

Course Name	Course Number	Credits	Length of Course	Prerequisites
<b>Competitive PE</b>	623	¼ P.E. Credit	Semester	9th–12th Grade
<p>Course Description: 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.</p>				
<b>Personal Fitness</b>	622	¼ P.E. Credit	Semester	9th–12th Grade
<p>Course Description: 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.</p>				
<b>Advanced Weightlifting</b>	624	¼ P.E. Credit	Semester	9th–12th Grade
<p>Course Description: 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.</p> <p><b>This class may ONLY be repeated with signed permission from the instructor.</b></p>				
<b>Yoga</b>	625	¼ P.E. Credit	Semester	9th–12th Grade
<p>Course Description: 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.</p>				

# INDUSTRIAL TECHNOLOGY EDUCATION

Machine Tools (543)

Welding Technology (544)

Consumer Maintenance (549)

Course Name	Course Number	Credits	Length of Course	Prerequisites
<b>Machine Tools</b>	543	½ Elective Credit	Semester	9th–12th Grade
Course Description: 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.				
<b>Welding Technology</b>	544	½ Elective Credit	Semester	9th–12th Grade
Course Description: 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.				
<b>Consumer Maintenance</b>	549	½ Elective Credit	Semester	10th–12th Grade
Course Description: 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.				

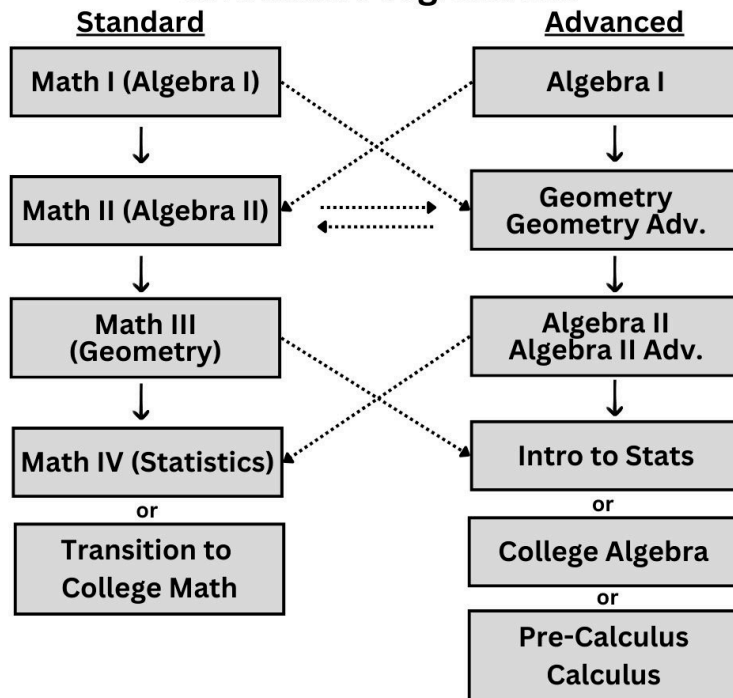
Math I (Algebra I) (302)  
 Math II (Algebra II) (322)  
 Math III (Geometry) (315)  
 Math IV (Statistics) (316)  
 Algebra I (321)  
 Algebra II (325)  
 Algebra II Advanced (327)

# MATHEMATICS

Geometry (323)  
 Geometry Advanced (324)  
 Transition to College Math (329)  
 Pre-Calculus (326)

**COTC Courses (In-house CCP):**  
 College Algebra (CCP) (328)  
 Calculus (CCP) (332)  
 Intro. to Statistics (CCP) (330)

## UHS Math Progressions



Course Name	Course Number	Credits	Length of Course	Prerequisites
<b>Math I (Algebra I)</b>	302	1 Math Credit	Full Year	9th–12th Grade
Course Description: Math I 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. A scientific calculator is required for this course.				
<b>Math II (Algebra II)</b>	322	1 Math Credit	Full Year	10th–12th Grade
Course Description: 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. A scientific calculator is required.				
<b>Math III (Geometry)</b>	315	1 Math Credit	Full Year	11th–12th Grade
Course Description: 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.				



Course Name	Course Number	Credits	Length of Course	Prerequisites
<b>Math IV (Statistics)</b>	316	1 Math Credit	Full Year	11th–12th Grade
Course Description: The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: Exploring Data, Sampling and Experimentation, Anticipating Patterns, and Statistical Inference.				
<b>Algebra I</b>	321	1 Math Credit	Full Year	8th–12th Grade “C” in Math 8 or Teacher Rec.
Course Description: Algebra I 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.				
<b>Algebra II</b>	325	1 Math Credit	Full Year	9th–12th Grade “C” in Alg. I or Teacher Rec.
Course Description: 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.				
<b>Algebra II Advanced</b>	327	1 Math Credit	Full Year	10th–12th Grade “B” in Alg. I or Teacher Rec.
Course Description: 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. A scientific calculator is required; however a graphing calculator is highly recommended. <b>*4.25 Weighted Course*</b>				
<b>Geometry</b>	323	1 Math Credit	Full Year	9th–12th Grade
Course Description: 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.				
<b>Geometry Advanced</b>	324	1 Math Credit	Full Year	10th–12th Grade “B” in Alg. I or Teacher Rec.
Course Description: 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. A scientific calculator is required. <b>*4.25 Weighted Course*</b>				



Course Name	Course Number	Credits	Length of Course	Prerequisites
<b>Transition to College Math</b>	329	1 Math Credit	Full Year	12th Grade
<p>Course Description: 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.</p>				
<b>Pre-Calculus</b>	326	1 Math Credit	Full Year	11th–12th Grade
<p>Course Description: 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.</p> <p><b>*4.5 Weighted Course*</b></p>				
<b>College Algebra (CCP)</b>	328	1 Math Credit 3 College Credits	Semester	11th–12th Grade Enrollment to COTC through CCP Program
<p>Course Description: 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. A graphing calculator is required.</p> <p><b>*4.5 Weighted Course*</b></p>				
<b>Intro to Statistics (CCP)</b>	330	1 Math Credit 3 College Credits	Semester	11th–12th Grade Enrollment to COTC through CCP Program
<p>Course Description: 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. A graphing calculator is required.</p> <p><b>*4.5 Weighted Course*</b></p>				
<b>Calculus</b>	332	1 Math Credit 5 College Credits	Full Year	11th Grade with Rec. OR 12th Grade Enrollment to COTC through CCP Program
<p>Course Description: 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.</p> <p><b>*4.5 Weighted Course*</b></p>				

# MISCELLANEOUS

Journalism (Publications 1) (425)

Leadership Development (429)

Yearbook (Publications 2) (424)

Financial Literacy (430)

Course Name	Course Number	Credits	Length of Course	Prerequisites
<b>Journalism (Publications 1)</b>	425	1 Elective Credit	Full Year	9th–12th Grade Application Required
<p>Course Description: Journalism students will learn the basics of gathering information and turning it into a story through different outlets like Redskin Rumbling Newsletter and various school social media sources. Photography, editing, headline/caption writing, editorials, layout design, fundraising, media ethics will also be included. Students will learn about the different basic skills/styles of photography, Canva, etc. Grades are based on participation/engagement, meeting deadline, creating quality work, and fundraising. Journalism is looking for school spirited students who could have interests in being artistic, creative, and showing casing/reporting on our schools events and departments.</p>				
<b>Yearbook (Publications 2)</b>	424	1 Fine Arts Credit	Full Year	10th– 12th Grade Journalism Course Application Required
<p>Course Description: Yearbook students will build upon the skills and techniques previously learned in Journalism 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, 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.</p>				
<b>Leadership Development</b>	429	½ Elective Credit	Semester	9th–12th Grade
<p>Course Description: 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.</p>				
<b>Financial Literacy</b>	430	½ Fin. Lit. Credit	Semester	10th Grade
<p>Course Description: 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 &amp; decision making, planning &amp; money management, informed consumer, investing, credit &amp; debt, and risk management &amp; insurance. Students will apply the concepts to real world skills and content.</p>				

# MUSIC EDUCATION

Band (644)

Kantorians (640)

Concert Choir (646)

Popular Trends in Music (647)

History of Musical Theater (649)

Guitar I (642)

Guitar II (643)

Course Name	Course Number	Credits	Length of Course	Prerequisites
<b>Band</b>	644	1 Fine Arts Credit	Full Year	9th–12th Grade Participation in MS Band
Course Description: High School Band is for students who play a band instrument and want to participate in a large ensemble. In the fall, students will participate in Marching Band (Band Camp, Friday night football games, community performances, and at least one festival performance are required for this course). For the remainder of the year, students participate in Concert Band, where they will study repertoire from a variety of time periods, cultures, and genres. Concert Band includes three required performances (one per quarter).				
<b>Kantorians</b>	640	1 Fine Arts Credit	Full Year	9th–12th Grade Spring Audition
Course Description: Kantorians is a select show choir. It performs two styles of music: traditional, advanced choral literature and contemporary rock/standard music with choreography. Kantorians 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.				
<b>Concert Choir</b>	646	1 Fine Arts Credit	Full Year	9th–12th Grade
Course Description: 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.				
<b>Popular Trends in Music</b>	647	½ Fine Arts Credit	Semester	9th–12th Grade
Course Description: Popular Trends in Music (formerly History of Rock) focuses on the last 100 years of music in the United States. Students will study a variety of genres and artists and their cultural significance. Students will learn how to listen critically to music and provide feedback on the elements of music they observe. Handouts, group assignments, listening activities, and projects assigned regularly.				
<b>Guitar I</b>	642	½ Fine Arts Credit	Semester	9th–12th Grade
Course Description: Students will receive guidance and direction in playing the guitar at a beginning level. They will learn many styles, skills, and techniques required to become a successful guitarist. Students will need to own, rent, or borrow a guitar for this class.				
<b>Guitar II</b>	643	½ Fine Arts Credit	Semester	9th–12th Grade Guitar I
Course Description: 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.				
<b>History of Musical Theater</b>	649	½ Fine Arts Credit	Semester	9th–12th Grade
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.				

# SCIENCE

Physical Science (210)

Physical Science Advanced (220)

Biology (211)

Biology Advanced (221)

Environmental Science (213)

Earth Science (212)

Anatomy & Physiology Advanced (227)

Chemistry (232)

Chemistry Advanced (233)

Chemistry 2 Advanced (234)

Physics Advanced (241)

Astronomy (245)

Course Name	Course Number	Credits	Length of Course	Prerequisites
<b>Physical Science</b>	210	1 Physical Science Credit	Full Year	9th Grade
<p>Course Description: 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.</p>				
<b>Physical Science Advanced</b>	220	1 Physical Science Credit	Full Year	9th Grade "B" in 8th Grade Science & Teacher Recommendation
<p>Course Description: 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 require a higher level of understanding in math, particularly the ability to manipulate variables in algebraic equations. <b>*4.25 Weighted Course*</b></p>				
<b>Biology</b>	211	1 Life Science Credit	Full Year	10th Grade
<p>Course Description: 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.</p>				
<b>Biology Advanced</b>	221	1 Life Science Credit	Full Year	9th-10th Grade "A" in 8th Grade Science & Teacher Recommendation
<p>Course Description: 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. <b>*4.25 Weighted Course*</b></p>				

Course Name	Course Number	Credits	Length of Course	Prerequisites
<b>Environmental Science</b>	213	1 Science Credit	Full Year	11th-12th Grade
Course Description: 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.				
<b>Earth Science</b>	212	1 Science Credit	Full Year	11th-12th Grade
Course Description: 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.				
<b>Anatomy &amp; Physiology Advanced</b>	227	1 Life Science Credit	Full Year	11th-12th Grade Advanced Biology or Teacher Recommendation
Course Description: 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. <b>*4.5 Weighted Course*</b>				
<b>Chemistry</b>	232	1 Physical Science Credit	Full Year	10th-12th Grade C or better in Algebra I
Course Description: Chemistry is a math-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 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. <b>*4.25 Weighted Course*</b>				
<b>Chemistry Advanced</b>	233	1 Physical Science Credit	Full Year	10th-12th Grade B or better in Algebra I & Instructor Approval
Course Description: 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. <b>*4.5 Weighted Course*</b>				

Course Name	Course Number	Credits	Length of Course	Prerequisites
<b>Chemistry 2 Advanced</b>	234	1 Physical Science Credit	Full Year	11th-12th Grade Advanced Chemistry or Chemistry w/ teacher recommendation Corequisite: Pre-Calculus
<p>Course Description: 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.</p> <p><b>*4.5 Weighted Course*</b></p>				
<b>Physics Advanced</b>	241	1 Science Credit	Full Year	11th - 12th Grade B in Algebra II & Geometry or Teacher Recommendation
<p>Course Description: 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. <b>*4.5 Weighted Course*</b></p>				
<b>Astronomy</b>	245	1 Science Credit	Full Year	11th-12th Grade 3 science credits or concurrent with 3rd science
<p>Course Description: 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.</p>				

# SOCIAL STUDIES

U.S. History (121)  
 Modern World History (120)  
 Modern World History Advanced (124)  
 American Government (142)  
 AP Government (140)

**Social Studies Electives:**  
 World Geography (117)  
 Psychology (119)  
 History of Sports (122)  
 History through Film (123)  
 Analysis of the  
 Vietnam War (125)

Course Name	Course Number	Credits	Length of Course	Prerequisites
<b>U.S. History</b>	121	1 Social Studies Credit	Full Year	9th Grade
Course Description: 9th 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. Students will take the Ohio End of Course test to determine content mastery.				
<b>Modern World History</b>	120	1 Social Studies Credit	Full Year	10th Grade
Course Description: 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.				
<b>Modern World History Advanced</b>	124	1 Social Studies Credit	Full Year	10th Grade "B" in U.S. History Teacher Recommendation
Course Description: 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 excelled in U.S. History or have a strong interest in history. <b>*4.25 Weighted Course*</b>				
<b>American Government</b>	142	1 Social Studies Credit	Full Year	11th Grade
Course Description: 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.				
<b>AP Government</b>	140	1 Social Studies Credit	Full Year	11th Grade 3.0 Cumulative GPA
Course Description: 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. <b>*5.0 Weighted Course*</b>				



# SOCIAL STUDIES ELECTIVES

Course Name	Course Number	Credits	Length of Course	Prerequisites
<b>World Geography</b>	117	½ SS Elective Credit	Semester	11th–12th Grade
Course Description: 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.				
<b>Psychology</b>	119	½ SS Elective Credit	Semester	11th–12th Grade
Course Description: 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.				
<b>History of Sports</b>	122	½ SS Elective Credit	Semester	11th–12th Grade
Course Description: 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.				
<b>History through Film</b>	123	½ SS Elective Credit	Semester	10th–12th Grade
Course Description: 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.				
<b>Analysis of the Vietnam War</b>	125	½ SS Elective Credit	Semester	10th–12th Grade
Course Description: Analysis of the Vietnam War is a course that will focus on understanding the conflict in Vietnam from the perspectives of both sides of the war. Throughout the course, we will immerse ourselves in the political and social aspects of the conflict. This will involve reading both fictional and non-fictional accounts of the conflict, watching portions of Ken Burn's documentary on the Vietnam War, viewing Hollywood films about the Vietnam War, and reading stories from soldiers and civilians who experienced the war firsthand. A focus will be placed on honoring stories of local Vietnam veterans from both Utica and the surrounding areas of Licking County. The culminating project will include a research-based, historically accurate retelling of one soldier's story.				



# WORK BASED LEARNING

11th Grade WBL: 570

12th Grade WBL: 571

WBL Work Experience: 572

Course Name	Course Number	Credits	Length of Course	Prerequisites
<b>Work Based Learning &amp; Work Experience</b>	11th Grade WBL: 570 12th Grade WBL: 571 WBL Work Experience: 572	WBL Class: 1 Elective Credit WBL Exp.: 2 Elective Credits	Full Year	11th-12th Grade Instructor Approval Application Required
Course Description: Work-Based Learning, including Related and Work Experience, is for recommended students who meet program qualifications. Students split their time between classroom instruction (or as needed for graduation) and hands-on job experience with a cooperating employer and teacher-coordinator. An optional virtual school day is available for added flexibility. The program's goal is to develop skills, abilities, and attitudes for successful employment.				

# CAREER BASED LEARNING

Career-Based Learning (901)

Course Name	Course Number	Credits	Length of Course	Prerequisites
<b>Career-Based Learning</b>	901	1 Elective Credit	Full Year or Semester	12th Grade Instructor Approval Application Required
Course Description: Career-Based Learning is a senior-only program for students with a 3.0 GPA or higher who are currently employed. This program allows students to take only the courses required for graduation while gaining real-world work experience. Participants have the flexibility to leave school early to work, applying their skills in a professional setting. This opportunity is designed to prepare students for future career success by fostering independence, responsibility, and workplace readiness.				