



**XENIA HIGH SCHOOL**

**2026 - 2027  
REGISTRATION GUIDE**

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# WELCOME TO XENIA HIGH SCHOOL

Dear Xenia High School Families,

We are excited to share the 2026-2027 Xenia High School Registration Guide with you! This guide is your essential tool for exploring all the exciting academic opportunities available to your student for the upcoming school year.

We've designed this booklet to be as easy to read and understand as possible. Think of it as a roadmap to help you and your student make the best choices for their future.

## ***Why Course Planning Matters***

At Xenia High School, we believe that thoughtful planning is the key to success throughout all four years of high school. The courses your student chooses now will build a strong foundation for graduation and beyond, whether they plan to attend college, join the military, or enter the workforce.

Please use this guide together to explore the options and discuss how each course fits into your student's long-term goals.

## ***Need Assistance? We're Here to Help!***

We understand that choosing courses can raise questions, and we welcome the opportunity to connect with you. Our goal is to make the registration process clear and stress-free for every family.

Please don't hesitate to contact the Guidance Office with any questions about the curriculum or the course selection process.

We look forward to partnering with you to make the 2026-2027 school year a successful and rewarding experience for your student!

Sincerely,

[Mr. Todd Whalen](#)

Principal

[Mrs. Candice Patrick](#)

Assistant Principal  
(A-G)

[Mr. Jay Meno](#)

Assistant Principal  
(H-M)

[Mr. Matt Bartley](#)

Assistant Principal  
(N-Z)

[Mr. Nathan Kopp](#)

Athletic Director

[Mr. Shawn Rudegear](#)

Counselor (A-G)

[Mrs. Amy Biggs](#)

Counselor (H-M)

[Ms. Jasmine Tolbert](#)

Counselor (N-Z)

## ***Important Phone Numbers***

**Main Office: 937 - 372 - 6983**

**Guidance Office: 937 - 372 - 6983 Ext. 8400**

**Athletic Office: 937 - 374 - 4217**

**Attendance Office: 937 - 372 - 6983 Ext. 8410**

**Contact Hours: Monday through Friday, 7:10 a.m. to 2:40 p.m.**

## **Looking for enrollment information?**

Find details about how to enroll a new student in Xenia Community Schools at [xeniaschools.org/enrollment](https://xeniaschools.org/enrollment).



# PORTRAIT OF A GRADUATE



COMMUNITY SCHOOLS

EMPATHY • LEARNER'S MINDSET • PERSEVERANCE • RESPONSIBILITY • CRITICAL THINKING • COMMUNICATION



## EMPATHY

XCS students notice and respect other people's feelings, treat them with kindness and respect, and use this understanding to build meaningful connections.



## LEARNER'S MINDSET

XCS students will be curious learners who are always eager to discover new things. They will embrace challenges, try new approaches, and stay open to growth with each experience.



## PERSEVERANCE

XCS students understand that failure is a natural part of the learning process as they persevere through adversity, learn from mistakes, and use setbacks as opportunities to grow stronger while striving to reach their goals.



## RESPONSIBILITY

XCS students own their choices, stay accountable, and contribute positively to their community and the people around them.



## CRITICAL THINKING

XCS students think critically by questioning information, evaluating evidence, considering multiple perspectives, and developing reasoned solutions in real-life situations.



## COMMUNICATION

XCS students communicate effectively by listening attentively, articulating thoughts clearly and adapting their message for different situations and audiences to build understanding and collaboration.



# STAY CONNECTED!



## Final Forms

Use Final Forms to enroll a new student and update your forms every year.



## Google Classroom

Use Google Classroom to find more information about your student's classroom assignments and more! Follow along on the [linked video](#) to learn more about navigating Google Classroom.



## ParentSquare + StudentSquare

Keep in the loop! Receive messages from teachers and administrators, as well as from the district. This includes notices about closings & delays, as well as day-to-day events at XHS. StudentSquare keeps students safely in contact with coaches, teachers, and group advisors.

Not receiving messages? Make sure your information is accurate in Final Forms!



## ProgressBook

Did you know that you can access your child's grades and other critical information online by logging into ProgressBook? How to access ProgressBook:

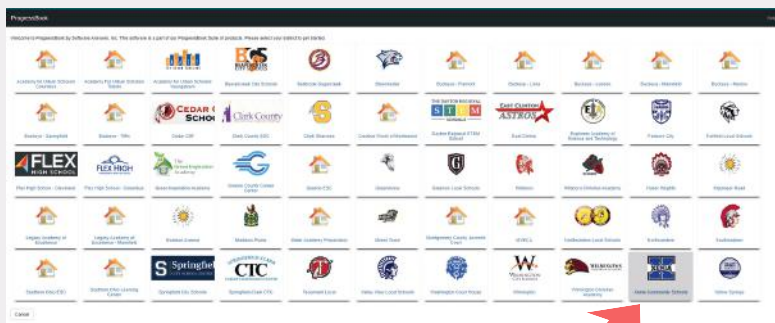


### STEP #1

Go to [www.xeniaschools.org](http://www.xeniaschools.org) and click the ProgressBook link on the home page.

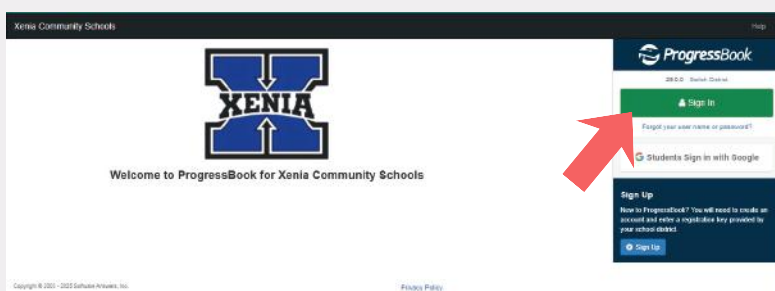
-OR-

Scan the QR code to go to Step #2 from your mobile device.



### STEP #2

Click the Xenia Community Schools logo on the page.



### STEP #3

Click the **GREEN** sign in button on the right of the screen.

Sign in with the user name and password provided.

## School Procedure and Policy on Scheduling Classes

The scheduling process for students begins in February, when Xenia High School Guidance Counselors begin meeting with students in small groups to discuss scheduling. Students are provided with an online list of class offerings, and are encouraged to discuss their interests and academic goals with their current teachers, their Guidance Counselor, and their parents.

On their computer, students will enter in their list of class requests that they would like to take. Based on the choices submitted by all students, a preliminary schedule for the High School will be built, and a tentative schedule will be created for each student. Before the end of the current school year, Guidance Counselors will meet with students to review this tentative schedule, and address any student concerns regarding the next year's schedule. Schedules are finalized over June and July, and students will be able to pick up their schedules in August prior to the start of the school year.

If a student feels his or her schedule needs to be changed, they should meet with their Guidance Counselor **BEFORE the 1st day** of school. Requests for changes ***must*** be based on one or more of the following circumstances:

- Completion of a make-up course during summer school, or a failure to successfully complete a prerequisite course.
- A scheduling conflict involving two or more courses.
- Other extraordinary circumstances that might require individual consideration.

Student schedules will **NOT** be changed **ONLY** to move a student into a different study hall or lunch period. Student schedules will **NOT** be changed **ONLY** to assign a student to a different teacher teaching the same class.



# GRADUATION REQUIREMENTS

## Academic Requirements

**First**, all students must **meet academic requirements** by earning at least 21 credits to qualify for a diploma. These credits are spread out over several disciplines, as noted below:

English Language Arts – 4.0 Credits  
Science – 3.0 Credits  
Financial Literacy - 0.5 Credits  
Physical Education – 0.5 Credits

Mathematics – 4.0 Credits  
Social Studies – 3.0 Credits  
Health – 0.5 Credits  
Electives – 5.5 Credits\*\*

Students must also take [End of Course Tests](#) for the following courses: English II\*, Algebra I\*, Geometry, Biology\*, American History\*, and American Government\*.

\*All students must take the tests listed above one time, however a passing score is only needed in these courses.

\*\*Students should complete two semesters of Fine Arts between grades 7-12 to ensure a well-rounded academic profile. While Fine Arts is not a standalone graduation requirement, these credits should be used toward the 5.5 required elective credits needed for graduation. (see p.15) Alternatively, students may fulfill this elective focus with two semesters of Career-Tech classes during grades 9-12. [For more details, please visit ODEW.](#)

## Competency: EOC Tests

**Second**, students must demonstrate **competency** by earning a passing score on the Algebra I and English II End of Course (EOC) Tests.

If a student does not earn a passing score, they can meet the second criteria through one of the following options:

- Demonstrating Completion of Two Career-Focused Activities (at least one must be foundational)
  - Earn a score of proficient or higher on three or more WebXams in a single career pathway (Foundational)
  - Earn a 12-point approved industry-recognized credential or group of credentials totaling 12 points in a single career field (Foundational)
  - Complete a pre-apprenticeship in the student's chosen career field or, for students ages 18 and older, show evidence of acceptance into an apprenticeship program after high school (Foundational)
  - Complete a 250-hour work-based learning experience with evidence of positive evaluations (Supporting)
  - Earn the workforce readiness score on WorkKeys (Supporting)
  - Earn the OhioMeansJobs-Readiness Seal (Supporting)
- Enlistment in the US Military
- Completing a college-level math and/or college-level English course (for the subject not passed) through the Ohio College Credit Plus (CCP) Program

## Readiness: Diploma Seals

**Thirdly**, students must demonstrate **readiness** by earning at least two (2) Diploma Seals. Students will be able to choose from a variety of options that give them the chance to demonstrate academic, technical and professional skills and knowledge that align to their passions, interests and planned next steps after high school.

# DIPLOMA SEALS

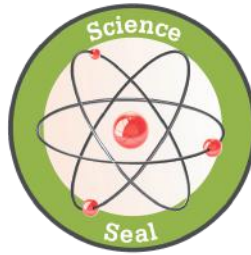
The following are the Diploma Seal Options students will have to choose from. At least one of the two must be Ohio-designed.

## Ohio-Designed Seals

Ohio Means Jobs  
Readiness Seal



Science Seal



Industry-Recognized  
Credential Seal



Honors Diploma Seal



College-Ready Seal



Seal of Biliteracy



Military Enlistment Seal



Technology Seal



Citizenship Seal



## Locally-Designed Seals

Community Service Seal



Fine and Performing  
Arts Seal



Student Engagement Seal



# SCHEDULING

## Scheduling Recommendations

The College Preparatory Curriculum as suggested by the Guidance Department and the Board of Education is as follows:

- English – 4.0 Credits
- Math - 4.0 Credits; including Algebra I, Geometry, and Algebra II
- Science – 4.0 Credits; including Biology, Chemistry, and Physics
- Social Studies – 3.0 Credits; including World History, US History, and US Government
- Foreign Language – 2.0 Credits
- Health and Physical Education – 1.0 Credits
- Fine Arts – 1.0 Credits
- Financial Literacy - 0.5 Credits
- Electives – 1.5 Credits

Total Credits: 21 out of 21 Credits needed for graduation

## Advanced Educational Opportunities

Xenia High School offers several systems for advancing academic learning in non-traditional ways for high school students. Some include an option for students to receive “dual credit”, affording high school students the chance to receive college credits while completing their high school credits.

### Credit Flexibility Plans

[Ohio law](#) allows alternate pathways for students to earn units of high school credit based upon demonstration of subject area competency or learning expectations through Credit Flexibility Plans, or CFPs. Credit Flexibility is the customizing of educational delivery to the learning styles and interests of individual students. Students show what they know and move on to higher-order content they are ready to learn and have not yet mastered. They learn subject matter and earn course credit in ways not limited solely to “seat time” or the walls of a school building. They customize aspects of their learning around their interests and needs, which might include flexible schedules and a choice of modalities (e.g., online learning, work-based learning and community-based projects), as well as options to pursue niche interest areas, combine subjects and graduate early.

Students have two types of CFPs they may attempt. Ask your guidance counselor for more information.

### Advanced Placement Program®

The Advanced Placement Program® (AP) enables willing and academically prepared students to pursue college-level studies while still in high school. The program consists of college-level courses developed by the AP Program from College Board® that high schools can choose to offer, and corresponding exams that are administered once a year.

Taking AP courses and exams can help students:

- Stand out on college applications. AP courses on a student’s transcript shows that they’ve challenged themselves with the most rigorous courses available to them. And success on an AP Exam shows that they’re ready for college-level coursework.
- Earn college credit and/or skip introductory courses in college. Most four-year colleges and universities in the United States—as well as many institutions in more than 100 other countries—grant students credit, placement, or both for qualifying AP Exam scores. [Search credit policies by college.](#)

Advanced placement opportunities are offered at XHS in *AP Chemistry*, *AP Calculus*, *AP US History*, *AP World History*, *AP Human Geography*, *AP Government*, and *AP English Language and Composition*. Students not enrolled in an AP course and would like to take one of the tests, must notify the XHS Guidance Office by December, prior to the spring testing, if they plan to take an Advanced Placement examination.

**In order to complete preparation for the Advanced Placement Examination, individual outside study, summer work, and intensive in-class work may be necessary. Students enrolled in AP classes are required to take the AP exams. There is a State Testing Fee for each AP Test. This fee is set by the State and will be collected by XHS. This fee needs to be paid prior to testing day. The approximate cost for each test is \$100.**



**NOTE: Once the exams have been ordered, the fee cannot be removed from the student's account. This includes students who have dropped the course.**

## College Credit Plus (CCP)

College Credit Plus (CCP) is Ohio's dual enrollment program that provides students in grades 7-12 the opportunity to earn college and high school credits at the same time by taking courses from Ohio colleges or universities. The purpose of this program is to enhance students' career readiness and postsecondary success, while providing a wide variety of options to college-ready students, at no or limited costs to students and families.

CCP offers general education classes that students normally take during the freshman and sophomore years of college. Students may choose between two plans offering 15 and 30 credit hours. It also includes a variety of optional classes from which to choose.

Students may take classes:

- at Xenia High School, taught by a qualified high school teacher or college professor
- at one of the local college campuses
- online, taught by a college instructor

After graduating from high school, students can use the earned CCP credits to transfer to another Ohio college or university to complete a degree. *Students are responsible for checking with potential colleges and universities for transfer credit eligibility.*



**TIP: Visit [transferology.com](https://www.transferology.com) to evaluate potential courses to determine if and how they would be accepted by other institutions.**



### Program Benefits

- Earn college credit & high school credit upon successful completion of the course
- Accelerate achievement of educational goals
- Opportunity to enroll in course not offered at Xenia High School
- Eliminate duplication of high school and college course content
- Increase the rigor and challenge of course offerings while in high school
- Decrease the cost of college with tuition paid for by Xenia Community Schools

## Eligibility Requirements

Ohio public high schools and public colleges and universities are required to participate in this program. Every student in grades 7-12 will have the opportunity to apply. In order to participate, students must meet certain requirements to demonstrate academic readiness. [For more information](#) and a list of requirements contact the Xenia High School Guidance Office.

Students who choose to participate in the CCP program may not take more than 30 college credit hours during an academic year (split between high school and college), and no more than the equivalent of 4 academic years, or 120 college credit hours total through the program. (This includes students eligible to start participating in the program in seventh and eighth grade.)



**A Letter of Intent must be signed and turned in before April 1 of the previous year. The letter must be filed every year to continue to participate in CCP.**

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## PLANNING NOTE: EARLY RELEASE & LATE ARRIVAL OPTION

Seniors who are eligible to graduate may choose this option in lieu of taking one elective or study hall at the beginning or end of the day. To qualify for this class, a senior must:

- Have completed all of his or her required class work necessary to be able to finish their graduation requirements in six periods.
- Have no attendance plan or discipline referrals leading to suspension.
- Submit written permission from his or her guardian stating that said guardian has approved their student leaving school early.
- Be enrolled in six periods of classes. (NO STUDY HALLS)
- Maintain passing grades in all six of his or her classes at the end of each quarter grading period.

***Failure to meet any of these prerequisites will result in the student being assigned to a full schedule for the remainder of the student's school year.***

## Guidelines for Student Athletic Eligibility



The Ohio High School Athletic Association (OHSAA) sets the standards for students to participate in extracurricular athletics programs for all high schools in Ohio. [XCS policy 2431](#) aligns with those standards, and establishes district guidelines for participation.

Students should reference the district's [Student Code of Conduct](#) and the [XHS Student Handbook](#), as well as the policy linked above, for details about GPA and other eligibility requirements for participating in athletics.



# ACHIEVEMENT OPPORTUNITIES

## Honor Roll

Xenia High School attempts to recognize various levels of academic accomplishment throughout the year. Each nine weeks, the honor roll is calculated with two levels:

- Honor Roll - 3.25 to 3.99
- Super Honor Roll - 4.00 and above

These lists are posted in the building and published in the *Xenia Daily Gazette*.

## Renaissance Program

The Renaissance Program is another means of recognizing academic achievement, good behavior, and attendance. Three cards are awarded based on achievement: a gold card for all A's; a blue card for all A's and B's; and a white card for A's, B's, and C's. Quarterly rewards are a component of this program.

## National Honor Society

The National Honor Society is an organization that recognizes juniors and seniors who have a cumulative GPA of 3.50 or better, starting with ninth grade, and who have excelled in the areas of leadership, character, and service. A faculty committee reviews those who are scholastically eligible. The induction ceremony is held in the late fall.

## Early Graduation

A student who completes the academic graduation requirements through a combination of traditional coursework and advanced academic opportunities may receive their high school diploma in less than four years. **Students interested in pursuing this option should contact their grade level counselor during their sophomore year.**

## High School Grading Scale and Grade Point Average (GPA) Calculation

In high school, the grade earned in a class is given a point value, which is used to calculate a student's Grade Point Average (GPA). The point value grade is dependent on the type of class the student is taking.

The grading scale and point values at Xenia High School is as follows:

Grade % in Course	Letter Grade	Grade Points	Grade Points for Honors, AP, or CCP
90% or more	A	4.0	5.0
80% – 89%	B	3.0	4.0
70% – 79%	C	2.0	3.0
60% – 69%	D	1.0	2.0
59% or less	F	0.0	0.0

GPA is calculated by dividing the total amount of grade points earned by the total amount of credit hours **attempted**. A grade of F will be counted in credits attempted for computation. A student's GPA may range from 0.0 to 5.0 on a scale which ranges from 0.0 to 4.0. It is possible to have a GPA which is higher than 4.0 if Honors, AP, or CCP courses were attempted.

## Honors Diploma

To be awarded a diploma with honors, a student shall be required to **meet at least seven (7) of the eight (8) criteria listed by the Ohio Department of Education**. Please see your high school guidance counselor if you have questions about earning an Honors Diploma.

View the [Ohio Honors Diploma Requirements](#) from the Ohio Department of Education and Workforce (ODEW).

## Valedictorian and Salutatorian

Beginning with the Class of 2027, students will receive traditional\* graduation honors, such as Valedictorian and Salutatorian. This will be determined by the student's GPA after final grades have been entered for their Senior year.

- No student shall be eligible for graduation honors unless they have been enrolled in Xenia Schools as a full-time student for six (6) consecutive semesters prior to the final semester utilized for the purpose of determining such honors. Students eligible for early graduation shall not be denied such honors if other criteria have been met.
- The grades of students transferring to the high school from another school will be recognized; however, such students shall have no established class rank Valedictorian or Salutatorian, until they have completed six (6) semesters enrolled in Xenia Schools.
- Students entering Xenia High School from non-chartered or home-based schooling shall have no established grade point average (GPA) or class rank for Valedictorian or Salutatorian, until they have completed six (6) semesters enrolled in Xenia Schools.

*\*The Class of 2026 is the last to receive the Graduate of Distinction Award. [See XCS Board Policy 5430 CLASS RANK](#).*



# XHS COURSE PLANNING CHART

Subject	XHS Graduation Requirements	College Prep Recommended Courses	Diploma with Honors Course Requirements	Greene County Career Center Graduation Requirements
English	4.0 credits	4.0 credits	4.0 credits	4.0 credits
Math	4.0 credits	4.0 credits	4.0 credits	4.0 credits
Science	3.0 credits <i>Must include at least: 1 Phys Science 1 Life Science</i>	4.0 credits	4.0 credits <i>Must include at least 2 units of advanced science.</i>	3.0 credits <i>Must include at least: 1 Phys Science 1 Life Science</i>
Social Studies	3.0 credits	4.0 credits	4.0 credits	3.0 credits
Health	0.5 credits	0.5 credits	0.5 credits	0.5 credits
Physical Education	0.5 credits (2 semesters)	0.5 credits (2 semesters)	0.5 credits (2 semesters)	0.5 credits (2 semesters)
Financial Literacy	0.5 credits	0.5 credits	0.5 credits	0.5 credits
Career Technical or Fine Arts	1.0 credit	1.0 Fine Arts + 2.0 Foreign Language	1.0 Fine Arts + 3.0 Foreign Language	1.0 credits <i>In either of these two areas.</i>
Other	4.5 credits	<i>Check specific college/ university requirements.</i>	<i>For additional requirements, see <a href="#">Diploma with Honors.</a></i>	4.5 credits in elective courses
<b>Total Credits</b>	<b>21.0 credits</b>	<b>21.0 credits</b>	<b>21.0 credits</b>	<b>21.0 credits</b>

# CAREER CLUSTERS & PATHWAYS

Most careers require education/training beyond a high school diploma. Xenia High School encourages students to select courses based on a career pathway. The goal is for students to take a pathway that facilitates a seamless transition from high school to post-secondary education (including apprenticeships, adult education, two- and four- year colleges, and graduate school), and from post-secondary education to the workplace.

The jobs in each career field require different levels of academic and technical skills. Preparing for your future career should be a part of your high school plan. Your high school and career pathway plan should be reviewed and updated annually with your XHS Guidance Counselor at scheduling time.

Career pathways are typical paths by which an individual might reach employment in a certain occupation. While they are by no means the only way to become employed in a given occupation, they offer a general guideline. Ohio has identified 16 Career Clusters that align career pathways by their primary industry. While these career pathways are organized by their primary industry, it should also be noted that career pathways and occupations can be found across multiple industries.



Explore the most up-to-date career options [through Career Cluster page](#) from Ohio Means Jobs.

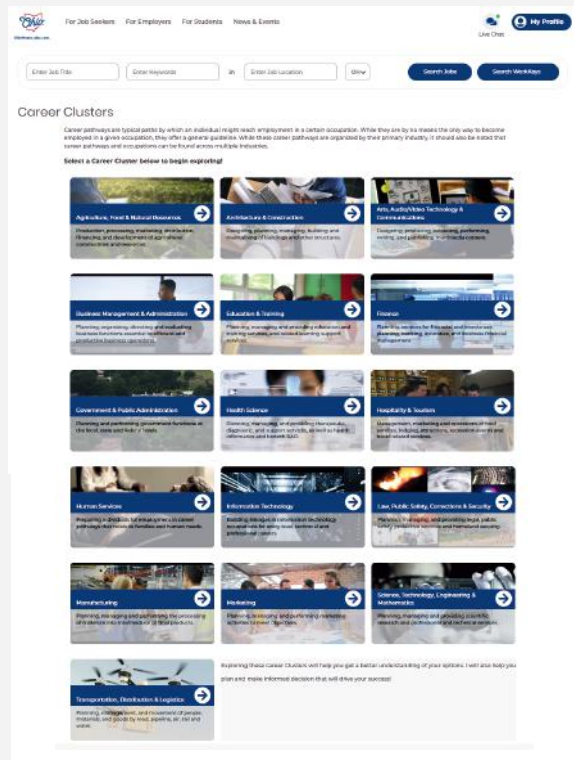


Explore options in each area of interest, ranging from entry level positions that may only require a high school diploma or on the job training to intermediate and advanced education degrees.



**Did you know... that your YouScience score can help you discover your natural aptitudes, and focus on a career direction that is a great fit for you?**

You Science can help students discover more about how their interests and aptitudes can come together to help you plan for the future!





# GRADUATION TRACKS






AT XENIA HIGH SCHOOL



To help students successfully navigate the path to earning their high school diploma, and set them up for success in their chosen education plan, Xenia High School has created this guide to show multiple paths to graduation. These tracks both meet the requirements for the State of Ohio, as well as give students the chance to position themselves well – whatever their life plan!

Students can decide which track best fits their needs, customize it to fit their needs, and choose the courses that will help them create memorable and engaging high school learning experience.

**Questions?** Talk to your counselor as you put together your plan to make sure you are completing all requirements, and setting yourself up for success!

<p><b>General Graduation Requirements</b></p> 	<p><b>Diploma with Honors</b></p> 	<p><b>2- or 4-Year College Prep</b></p> 	<p><b>CTE @XHS</b></p> 	<p><b>CTE @GCCC</b></p> 
<p>Meets requirements for a high school diploma in the state of Ohio. Ideal for students who plan to head directly into the workforce.</p>	<p>Prepares students for success in post-secondary education, meeting high standards while maintaining a rigorous course of study.</p>	<p>Prepares students for professional careers with an emphasis in technical studies for roles requiring an associate's degree, 4-year college, or technical training.</p>	<p>Prepares students to complete a career pathway while attending XHS for 4 years.</p>	<p>Prepares students to complete courses that should be taken at XHS during 9<sup>th</sup> and 10<sup>th</sup> grade before enrolling at GCCC.</p>

# PATH TO 21: GENERAL EDUCATION

## General Graduation Requirements



Meets requirements for a high school diploma in the state of Ohio. Ideal for students who plan to head directly into the workforce.

### 9th Grade

**ELA:** English 9  
**MATH:** Algebra 1  
**SCIENCE:** Spectra of Science  
**SOCIAL STUDIES:** U.S. History  
**OTHER:** 2.0 - 3.0 credits, TBD

### 10th Grade

**ELA:** English 10  
**MATH:** Geometry  
**SCIENCE:** Biology  
**SOCIAL STUDIES:** World History  
**OTHER:** 2.0 - 3.0 credits, TBD

### 11th Grade

**ELA:** English 11  
**MATH (Choose 1):** Algebra 2, Algebra IIA, Data Science, Discrete Math  
**SCIENCE (Choose 1-2):** Chemistry, Science Electives  
**SOCIAL STUDIES:** American Government  
**OTHER:** 2.0 - 3.0 credits, TBD

### 12th Grade

**ELA:** English 12  
**MATH:** 4<sup>th</sup> Year Math  
**SCIENCE:** Electives (optional)  
**SOCIAL STUDIES:** Electives (optional)  
**OTHER:** 2.0 - 3.0 credits, TBD

*Required courses that can be taken any time. Include with "Other" courses, along with fine arts, language, and other options:*

- Health
- P.E. (or meet waiver requirements)
- Financial Literacy or Economics

## Required Credits for Graduation\*

ELA 4.0

Math 4.0

Science 3.0

Social Studies 3.0

Health (0.5) /P.E. (0.5) 1.0

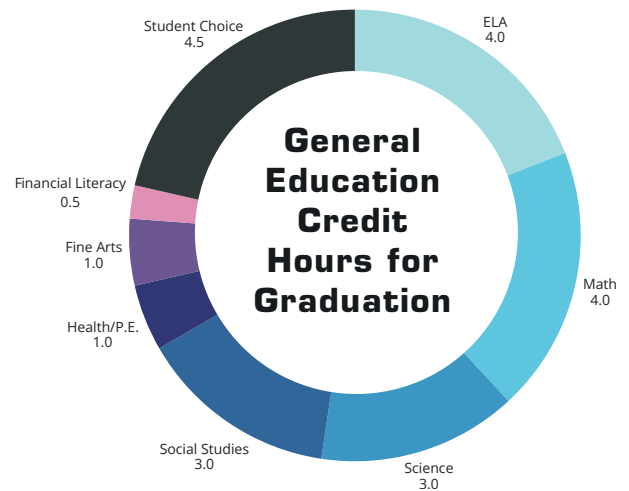
Fine Arts 1.0

CTE 0.0

Financial Literacy 0.5

Student Choice\*\* 4.5

\*Meets minimum credit hour requirement. See p.15 for credit hour requirements & recommendations.  
 \*\*Combined total of electives, fine arts, or other eligible courses.



## PATH TO 21

What courses do I need to graduate?

TOTAL CREDIT HOURS	ELA	Math	Science	Social Studies	Graduation Requirements (taken any time)	Fine Arts	CTE
4.0	English 12	Year 4 Math	AP, CCP, Year 4, Electives	AP, CCP, or Electives			
3.5							
3.0	English 11	Alg II, Data Science, or Discrete Math	Chemistry	American Gov't.			
2.5							
2.0							
1.5	English 10	Geometry or Algebra II	Biology	World History	Financial Literacy		Pathway Intro
1.0							
1.0	English 9	Algebra I or Geometry	Spectra of Science	U.S. History	P.E. (2 sem; 0.25 credits each) Health	student choice fine art course(s)	
0.5							

# PATH TO 21: DIPLOMA WITH HONORS

## Diploma with Honors



Prepares students for success in post-secondary education, meeting high standards while maintaining a rigorous course of study.

### Recommended Credits for Graduation\*

ELA	4.0
Math	4.0
Science	4.0
Social Studies	4.0
Health (0.5) /P.E. (0.5)	1.0
Fine Arts	1.0
CTE	0.0
Financial Literacy	0.5
Foreign Language	3.0
Student Choice**	0.0

\*Exceeds Ohio's minimum credit hour requirement. See p.15 for credit hour requirements & recommendations.

\*\*Combined total of electives, fine arts, or other eligible courses.

### 9th Grade

**ELA:** English 9 (Regular or Honors)  
**MATH:** Algebra 1 (Honors) or Geometry (H), if completed Algebra I in 8<sup>th</sup>  
**SCIENCE:** Spectra of Science (Honors)  
**SOCIAL STUDIES:** U.S. History (Regular or Honors)  
**OTHER:** 2.0 - 3.0 credits, TBD

### 10th Grade

**ELA:** English 10  
**MATH:** Geometry or Algebra 2  
**SCIENCE:** Biology  
**SOCIAL STUDIES:** World History  
**OTHER:** 2.0 - 3.0 credits, TBD

### 11th Grade

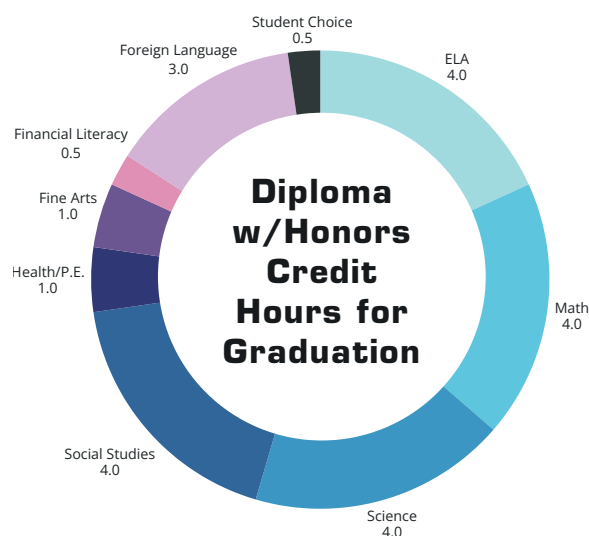
**ELA:** English 11 (Regular or Honors)  
**MATH (Choose 1):** Algebra 2 (Honors)  
**SCIENCE:** Chemistry (Honors)  
**SOCIAL STUDIES:** American Government (Regular or Honors)  
**OTHER:** 2.0 - 3.0 credits, TBD

### 12th Grade

**ELA:** English 12 (Regular or Honors)  
**MATH:** AP, CCP, 4<sup>th</sup> Year Math  
**SCIENCE:** AP, CCP, or Electives (1 per semester)  
**SOCIAL STUDIES:** Electives (1 per semester)  
**OTHER:** 2.0 - 3.0 credits, TBD

**Required courses that can be taken any time. Include with "Other" courses, along with fine arts, language, and other options:**

- Health
- P.E. (or meet waiver requirements)
- Financial Literacy or Economics



## PATH TO 21

### What do I need to graduate with an Honors Diploma?

TOTAL CREDIT HOURS	4.0	English 12	Year 4 Math	AP, CCP, Year 4, Electives	AP, CCP, or Electives		Spanish IV	
	3.5							
	3.0							
	2.5	English 11	Alg II, Data Science, or Discrete Math	Chemistry	American Gov't.		Spanish III	
	2.0							
	1.5	English 10	Geometry or Algebra II	Biology	World History	Financial Literacy	Spanish II	
	1.0	English 9	Algebra I or Geometry	Spectra of Science	U.S. History	P.E. (2 sem; 0.25 credits each) Health	student choice fine art course(s)	Spanish I
0.5								
		ELA	Math	Science	Social Studies	Graduation Requirements (taken any time)	Fine Arts	Foreign Language

# PATH TO 21: 2- OR 4-YEAR COLLEGE

## 2- or 4-Year College Prep



Prepares students for professional careers with an emphasis in technical studies for roles requiring an associate's degree, 4-year college, or technical training.

### Recommended Credits for Graduation\*

ELA	4.0
Math	4.0
Science	4.0
Social Studies	4.0
Health (0.5) /P.E. (0.5)	1.0
Fine Arts	1.0
CTE	0.0
Financial Literacy	0.5
Foreign Language	2.0
Student Choice**	0.5

\*Meets minimum credit hour requirement. See p.15 for credit hour requirements & recommendations.  
 \*\*Combined total of electives, fine arts, or other eligible courses.

### 9th Grade

**ELA:** English 9 (Regular or Honors)  
**MATH:** Algebra 1 (Honors) or Geometry (H), if completed Algebra I in 8<sup>th</sup>  
**SCIENCE:** Spectra of Science (Honors)  
**SOCIAL STUDIES:** U.S. History (Regular or Honors)  
**OTHER:** 2.0 - 3.0 credits, TBD

### 10th Grade

**ELA:** English 10  
**MATH:** Geometry or Algebra 2  
**SCIENCE:** Biology  
**SOCIAL STUDIES:** World History  
**OTHER:** 2.0 - 3.0 credits, TBD

### 11th Grade

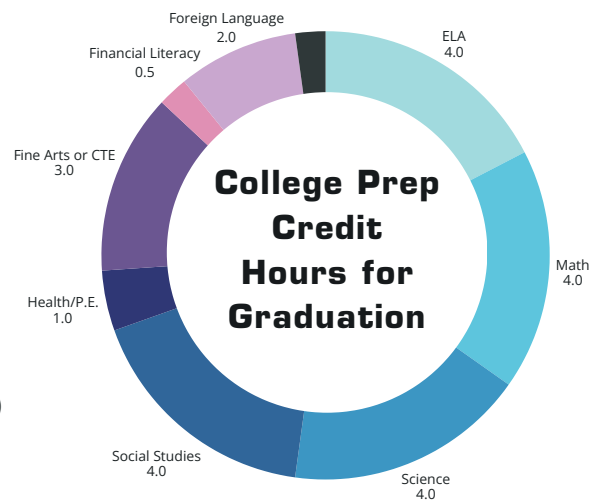
**ELA:** English 11 (Regular or Honors)  
**MATH (Choose 1):** Algebra 2 (Honors)  
**SCIENCE:** Chemistry (Honors)  
**SOCIAL STUDIES:** American Government (Regular or Honors)  
**OTHER:** 2.0 - 3.0 credits, TBD

### 12th Grade

**ELA:** English 12 (Regular or Honors)  
**MATH:** AP, CCP, 4<sup>th</sup> Year Math  
**SCIENCE:** AP, CCP, or Electives (1 per semester)  
**SOCIAL STUDIES:** Electives (1 per semester)  
**OTHER:** 2.0 - 3.0 credits, TBD

**Required courses that can be taken any time. Include with "Other" courses, along with fine arts, language, and other options:**

- Health
- P.E. (or meet waiver requirements)
- Financial Literacy or Economics



## PATH TO 21

What do I need to graduate ready for advanced study?

TOTAL CREDIT HOURS	4.0	English 12	Year 4 Math	AP, CCP, Year 4, Electives	AP, CCP, or Electives			Spanish IV
	3.5							
	3.0	English 11	Alg II, Data Science, or Discrete Math	Chemistry	American Gov't.			Spanish III
	2.5							
	2.0	English 10	Geometry or Algebra II	Biology	World History	Financial Literacy		Spanish II
1.5	English 9	Algebra I or Geometry	Spectra of Science	U.S. History	P.E. (2 sem; 0.25 credits each) Health	student choice fine art course(s)		Spanish I
1.0								
0.5								
		ELA	Math	Science	Social Studies	Graduation Requirements (taken any time)	Fine Arts	Foreign Language

# PATH TO 21: CTE PATHWAYS AT XHS

CTE @XHS



Prepares students to complete a career pathway (e.g. Ag, Allied, Health, Media) while attending XHS for 4 years.

## Recommended Credits for Graduation\*

ELA	4.0
Math	4.0
Science	3.0
Social Studies	3.0
Health (0.5) /P.E. (0.5)	1.0
Fine Arts	1.0
CTE	4.5
Financial Literacy	0.5
Student Choice**	0.0

\*Meets minimum credit hour requirement. See p.15 for credit hour requirements & recommendations.  
 \*\*Combined total of electives, fine arts, or other eligible courses.

## 9th Grade

**ELA:** English 9 (Regular or Honors)  
**MATH:** Algebra 1 (Honors) or Geometry (H), if completed Algebra I in 8<sup>th</sup>  
**SCIENCE:** Spectra of Science (Honors)  
**SOCIAL STUDIES:** U.S. History (Regular or Honors)  
**OTHER:** 2.0 - 3.0 credits, TBD

## 10th Grade

**ELA:** English 10  
**MATH:** Geometry or Algebra 2  
**SCIENCE:** Biology  
**SOCIAL STUDIES:** World History  
**OTHER:** Pathway Intro Course + 2.0 credits, TBD

## 11th Grade

**ELA:** English 11 (Regular or Honors)  
**MATH (Choose 1):** Algebra 2, Algebra IIA, Data Science, Discrete Math  
**SCIENCE:** Chemistry (Honors)  
**SOCIAL STUDIES:** American Government (Regular or Honors)  
**OTHER:** Pathway Sequence, Year 1 + 1.0 - 2.0 credits, as needed

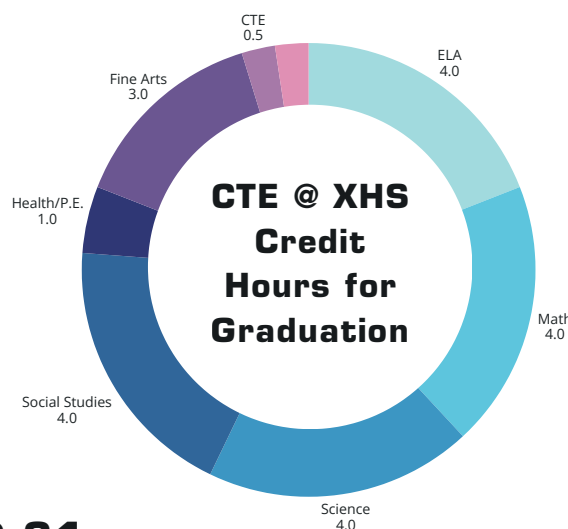
## 12th Grade

**ELA:** English 12 (Regular or Honors)  
**MATH:** AP, CCP, 4<sup>th</sup> Year Math (optional)  
**SCIENCE:** AP, CCP, or Electives (opt: 1 per sem)  
**SOCIAL STUDIES:** Electives (opt: 1 per sem)  
**OTHER:** Pathway Sequence, Year 2 + 1.0 - 2.0 credits, as needed

### Required courses that can be taken any time:

- Health
- P.E. (or meet waiver requirements)
- Financial Literacy or Economics

NOTE: It is *strongly* recommended that students complete these requirements during grades 9 or 10 in order to complete the full pathway sequence during their junior/senior years.



## PATH TO 21

### What do I need to graduate on a CTE Pathway?

TOTAL CREDIT HOURS	ELA	Math	Science	Social Studies	Graduation Requirements (taken any time)	Fine Arts	CTE
4.0	English 12	Year 4 Math	AP, CCP, Year 4, Electives	AP, CCP, or Electives			
3.5							
3.0	English 11	Alg II, Data Science, or Discrete Math	Chemistry	American Gov't.			
2.5							
2.0	English 10	Geometry or Algebra II	Biology	World History			
1.5					Financial Literacy		Pathway Intro Grade 10
1.0	English 9	Algebra I or Geometry	Spectra of Science	U.S. History	P.E. (2 sem; 0.25 credits each)	student choice fine art course(s)	+ 4-Class Pathway Course of Study Grades 11-12
0.5					Health		

# PATH TO 21: CTE AT GCCC

CTE @GCCC



Prepares students to complete required courses that must be taken at XHS during 9<sup>th</sup> and 10<sup>th</sup> grade before enrolling at GCCC.

## Recommended Credits for Graduation\*

ELA	4.0
Math	4.0
Science	3.0
Social Studies	3.0
Health (0.5) /P.E. (0.5)	1.0
Fine Arts	1.0
CTE	4.5
Financial Literacy	0.5
Student Choice**	0.0

\*Meets minimum credit hour requirement. See p.15 for credit hour requirements & recommendations.  
 \*\*Combined total of electives, fine arts, or other eligible courses.

## 9th Grade

**ELA:** English 9  
**MATH:** Algebra 1  
**SCIENCE:** Spectra of Science  
**SOCIAL STUDIES:** U.S. History  
**OTHER:** 2.0 - 3.0 credits, TBD

## 10th Grade

**ELA:** English 10  
**MATH:** Geometry or Algebra 2  
**SCIENCE:** Biology  
**SOCIAL STUDIES:** World History  
**OTHER:** 2.0 - 3.0 credits, TBD

*The following required courses are available to any XHS student, but are not currently offered at GCCC. Students planning to enroll at the Career Center during their junior year should plan to complete these graduation requirements in grade 9 or 10:*

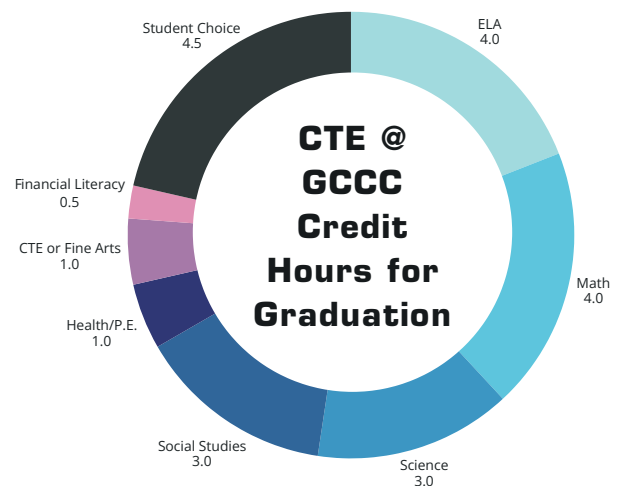
- Health
- P.E. (or meet waiver requirements)
- Financial Literacy



## DID YOU KNOW?

*...that qualified students may be able to "double up" some courses in grades 9 and 10 to complete general education requirements at XHS prior to attending the career center?*

Ask your counselor for more information!



TOTAL CREDIT HOURS	ELA	Math	Science	Social Studies	Graduation Requirements (taken any time)	Fine Arts	CTE
4.0	Year 4 English	Year 4 Math	AP, CCP, Year 4, Electives	AP, CCP, or Electives			
3.5							
3.0	Year 3 English	Year 3 Math	Chemistry	American Gov't.			
2.5							
2.0	English 10	Geometry or Algebra II	Biology	World History			
1.5					Financial Literacy		
1.0	English 9	Algebra I or Geometry	Spectra of Science	U.S. History	P.E. (2 sem; 0.25 credits each)	student choice fine art course(s)	Pathway Course of Study @GCCC Grades 11-12
0.5					Health		

# XHS CAREER PATHWAY PLANING

<b>Name:</b>
<b>Career Pathway Goal:</b>

	ELA	Math	Science	Social Studies	Health/ P. E.	Career Tech	Other	Other
<b>Secondary Academic Planning</b>								
<b>7</b>								
<b>8</b>								
<b>9</b>								
<b>10</b>								
<b>11</b>								
<b>12</b>								

<b>Post-Secondary Academic Planning</b>								
<b>Year One, Semester One</b>								
<b>Year One, Semester Two</b>								
<b>Year Two, Semester One</b>								
<b>Year Two, Semester Two</b>								

# CTE: Agriculture, Food & Natural Resources

## PATHWAY COURSES: Intro to Agriculture

Animal and Plant Science

Home and Farm Repair

Outdoor Power Technology

Business Management for Ag (H)

Agriculture Capstone



## AGRICULTURE PATHWAY

A SATELLITE PROGRAM OF GCCC

### WHAT DOES THIS PATHWAY INVOLVE?

Students learn the science related to agriculture and career opportunities within the ag career field. Students do not learn how to be a farmer! Instead, (they should gain a basic understanding of select farming techniques and develop an appreciation of the industry.

### WORK-BASED LEARNING OPPORTUNITIES

Students may leave school early for WBL in the highest level class. This is the second-block class, which can be taken as a junior or senior, depending on when the student participated in the Intro class.



A \$30 CTSO fee (Career Technical Student Organization) course fee is required for all students annually. (Optional for Intro students only.) The fee will be collected by XHS for these courses, and includes the opportunity to compete in contests, participate in leadership training, conferences, and conventions, as well as travel and field trips.

### COMPATIBLE GRADUATION SEALS



*Note that seals may be earned through student work in this and other areas of study. Compatible seals are those which are supported by the work completed in this pathway, but may not be completed as part of regular coursework.*



### ALIGNED INDUSTRY CERTIFICATIONS & CREDENTIALS

- OSHA 10 Hour Card
- Briggs and Stratton MST

### CAREER OPPORTUNITIES

(entry & advanced level)

- Ag Equipment Tech
- Greenhouse Manager
- Livestock Handler
- Crop Scout
- Ag Engineer
- Animal Nutritionist
- Ag Educator/  
Extension Agent

Learn more about  
industry credentials  
from ODEW:



## **0886 - INTRO TO AGRICULTURE**

🕒 *Semester Long Course / 0.5 Credit*

✔️ *Prerequisite:*

Open to 9th & 10th grade students ONLY.

This first course in the career field is an introduction to Agricultural Education. Students will be introduced to the scope of the Agricultural Education 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. *Students may choose to join FFA.*

## **0883 - ANIMAL AND PLANT SCIENCE**

🕒 *Year Long Course / 1.25 Credit*

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.

*Students are required to join FFA.*

## **0888 - HOME AND FARM REPAIR**

🕒 *Year Long Course / 1.25 Credit*

✔️ *Prerequisite:*

Open to juniors and seniors OR have taken Intro to Agriculture.

Students will learn the basics in home and farm repair. Major topics include: Safety, Tool Use, Woodworking, Concrete, Plumbing, Electricity, Hot and Cold Metal Working, Welding, Small Engine Maintenance & Repair, Equipment Operation, and more! Throughout the course, students will learn critical components of site and personal safety, as well as communication and leadership skills.

*Students are required to join FFA.*

## **0885 - OUTDOOR POWER TECHNOLOGY AND WORK BASED LEARNING**

🕒 *Year Long Course / 1.25 Credit*

✔️ *Prerequisite:*

Open to juniors and seniors OR have taken Intro to Agriculture.

Students will perform preventive maintenance, diagnose, and repair outdoor power equipment. Students will learn the theory of power and examine the aspects of repairing various engines, driving trains, and ancillary systems that make up modern compact powered equipment. Students will develop troubleshooting skills for 2-and 4-stroke engines, electrical and fuel systems. Throughout the course, students will maintain site and follow personal safety procedures along with developing an understanding of business.

Students also have the option to be paired with a business in the Agricultural sciences field as either an employee, intern or shadow to gain real life work based learning. Students participating in work based learning will leave school during their scheduled Agricultural sciences classes and will be evaluated by a work based learning coordinator. *Students are required to join FFA.*

## **0887 - BUSINESS MANAGEMENT FOR AG (HONORS)**

🕒 *Year Long Course / 1.25 Credit*

Students will examine elements of business, identify organizational structures and apply management skills while developing business plans, financial reports and strategic goals for new ventures or existing businesses. Learners will use marketing concepts to evaluate the marketing environment and develop a marketing plan with marketing channels, product approaches, promotion and pricing strategies. Throughout the course, students will apply concepts of ethics and professionalism while implications of business regulations will be identified.

*Students are required to join FFA.*

# CTE: Arts, AV Tech & Communications

**PATHWAY COURSES:**  
**Introduction to Information Technology**  
**Creating and Editing Digital Images**  
**Video & Sound (H)**  
**Multimedia and Image Management (H)**  
**Design Techniques (H)**  
**Media Production Capstone**



## MEDIA PRODUCTION PATHWAY

A SATELLITE PROGRAM OF GCCC

### WHAT DOES THIS PATHWAY INVOLVE?

The Media Production pathway teaches how to create high-quality videos, photos, and graphics using industry-standard equipment. Students will build strong digital and communication skills that prepare for future careers in media or even freelance work after graduation.

### COLLEGE CREDIT (CTAG)

- Yearbook (Design Techniques)
- Photography and Graphic Design (Creating and Editing Digital Graphics)
- Audio and Video Production
- Multimedia and Image Management

### WORK-BASED LEARNING OPPORTUNITIES

- Capstone WBL
- School-Based Store
- News and Film Production

### COMPATIBLE GRADUATION SEALS



*Note that seals may be earned through student work in this and other areas of study. Compatible seals are those which are supported by the work completed in this pathway, but may not be completed as part of regular coursework.*



### CAREER OPPORTUNITIES

(entry & advanced level)

- Broadcast, Sound, and Video Technicians
- Film and Video Editors
- Camera Operators
- Journalists
- Photographers
- Graphic Designers
- Animators
- Web Designers
- Public Relations Specialists
- Marketing Directors
- UGC Content Managers

### INDUSTRY CREDENTIALS

Adobe

- Illustrator
- Photoshop
- Premiere Pro
- InDesign

## 0705 - INTRODUCTION TO MEDIA PRODUCTION

🕒 *Semester Long Course / 0.5 Credit*

✔️ **Prerequisite:**

Open to 9<sup>th</sup> and 10<sup>th</sup> grade students only.

This class introduces students to all of the areas of media production at a surface level. Also, this class would make sure students understand what a computer is, does, and how to use it safely and properly.

Experiences:

- Photo, Video & Audio
- Digital Graphics
- Printing

## 0706 - CREATING AND EDITING DIGITAL GRAPHICS (HONORS)

🕒 *Year Long Course / 1.0 Credit*

✔️ **Prerequisite:**

Open to juniors and seniors only.

This class introduces students to photography, graphic design, storytelling through media, and proper file handling. Students will learn how to use the manual settings on a camera, Photoshop, Lightroom Classic, and Illustrator. They will use these skills to create posters, banners, photo comics, and more.

Experiences:

- Photography
- Digital Graphics
- Printing

## 0709 - VIDEO AND SOUND (HONORS)

🕒 *Year Long Course / 1.0 Credit*

✔️ **Prerequisite:**

Open to juniors and seniors only.

Students will deepen their camera skills through video. Along with this, they will use audio equipment to record. In this class, students will shoot podcasts, advertising materials, and a short film they have prepared, written, and collaborated on. Also, they will learn how to edit at a basic level.

Experiences:

- Pro-Level Video
- Pro-Level Audio
- Scriptwriting for Advertisement and Narrative
- Collaborative Film Set

## 0725 - MULTIMEDIA AND IMAGE MANAGEMENT (HONORS)

🕒 *Year Long Course / 1.0 Credit*

✔️ **Prerequisite:**

- Must have completed Creating and Editing Digital Images and Video and Sound.
- Open to seniors only.

Students will have multiple options to use their skills in either a simulated workplace, an actual workplace, or a hybrid. If students cannot leave, they will produce a student-run news program, create merch, and schedule interviews with outside guests. If they choose to work out of the classroom, they will be aided by the career center and Mr. Norton to find a suitable workplace.

Experiences:

- Student-Led Environment
- Merch creation
- News Production
- Live Streaming
- Work-Based Learning

## 0717 - YEARBOOK (HONORS)

🕒 *Year Long Course / 1.0 Credit*

Yearbook is a production-based course that teaches students how to create a school yearbook. Students learn design, photography, writing, and other skills to produce a book that documents the school year.

## 0728 - MEDIA PRODUCTION CAPSTONE

🕒 *Year Long Course / 1.0 Credit*

✔️ **Prerequisite:**

- Must have completed Creating and Editing Digital Images and Video and Sound.
- Open to seniors only.

This capstone course provides students with real world experience in media production. Students will either launch their own media related business or gain hands-on experience working in a professional media environment. Through project development industry practices and reflective work students will apply technical creative and entrepreneurial skills to prepare for careers or for their study in media fields.

# CTE: Health Science



## PATHWAY COURSES:

Health and Science Technology

Principles of Allied Health

Lifespan Development and Medical Intervention

Patient Centered Care



## ALLIED HEALTH PATHWAY

AT XENIA HIGH SCHOOL

### WHAT DOES THIS PATHWAY INVOLVE?

students gain an engaging, hands-on introduction to the healthcare field. They will explore career options for entry-level positions, learn about industry-recognized certifications, and discover the wide range of professions within allied health.

### COLLEGE CREDIT (CTAG)

Medical Terminology is a CTAG course and can earn college credit through Clark State Community College or other Ohio colleges.

### WORK-BASED LEARNING OPPORTUNITIES

Students can take part in:

- SOCHE internships
- 250 hours of work-based learning
- Senior-year capstone projects
- Community partnerships with hospitals, dental offices, and first responders

These experiences help students gain real-world healthcare skills.

### COMPATIBLE GRADUATION SEALS



*Note that seals may be earned through student work in this and other areas of study. Compatible seals are those which are supported by the work completed in this pathway, but may not be completed as part of regular coursework.*



### INDUSTRY CREDENTIALS

- CPR – 1 point
- Stop the Bleed – 1 point
- AMCA Phlebotomy (knowledge test) – 12 points
- Mental Health Technician – 6 points
- Patient Care Technician – 12 points
- Sigma Six Yellow Belt, Leadership, and Green Belt – 10 points

**Note:**

A \$30 CTSO fee (Career Technical Student Organization) course fee is required for all students annually. The fee will be collected by XHS for these courses, and includes the opportunity to compete in contests, participate in leadership training, conferences, and conventions, as well as travel and field trips.



## 0570 - HEALTH AND SCIENCE TECHNOLOGY

**🕒 Year Long Course / 0.5 Credit**

This first course in the career field provides students an overview of the opportunities available in the healthcare industry. Students will learn fundamental skills in effective and safe patient care that can be applied across a person's lifespan. They will also be introduced to exercise science and sports medicine, the field of biomedical research and the importance of managing health information.



## 0571 - PRINCIPLES OF ALLIED HEALTH

**🕒 Year Long Course / 1.0 Credit**

In this course students will apply knowledge and clinical skills necessary to assess, plan, provide, and evaluate care to patients in varied healthcare settings. Students will apply first aid principles and techniques needed for response to choking, cardiopulmonary resuscitation, and other life-threatening emergencies. Emphasis will be placed on regulatory compliance, patient safety, pathophysiology, and medical interventions. Additionally, this course introduces psychomotor skills needed to assist individuals in meeting basic human needs.

## CAREER OPPORTUNITIES

### Entry Level

Patient Care Technician, Phlebotomist, Medical Office Support, Home Health Aide, Direct Support Professional, Billing & Health Information Clerk, Dental Assistant, Dental Office Receptionist, Orthodontic Assistant

### Advanced Level

#### (Requires Post-Secondary Education)

Medical Assistant, LPN / RN, Paramedic, Respiratory Therapist, Radiologic Technician, Diagnostic Medical Sonographer, Dental Hygienist, Expanded Functions Dental Auxiliary (EFDA)

## 0574 - LIFESPAN DEVELOPMENT AND MEDICAL INTERVENTION

**🕒 Year Long Course / 1.0 Credit**

Students gain necessary skills and knowledge to meet the needs of individuals from infancy through the human life cycle in a safe, legal, and ethical manner using the nursing process. Topics include physical, psychological, and cultural variations associated with maturing and aging. Emphasis will be placed on regulatory compliance, patient assessment, patient safety, and medical interventions. Additionally, students use psychomotor nursing skills to assist in day-to-day patient care activities.

## 0573 - PATIENT CENTERED CARE

**🕒 Year Long Course / 1.0 Credit**

### 📌 Prerequisite:

Principles of Allied Health

In this course, students establish and implement treatment plans while providing primary nursing care. Topics include pharmacology, phlebotomy, mental health nursing and acute care nursing. Students use diagnostic techniques to develop patient health assessments. Emphasis is placed on the synthesis of information gathered through health history, observation, and the detection of deviations and variations from normal physical characteristics. In addition, students learn the legal and ethical principles needed to function within the scope of practice.



## PATHWAY COURSES:

Principles of Biomedical Science

Human Body Systems (H)

Medical Innovation (H)

Biomedical Interventions (H)

Biomedical Science Capstone



## BIOMEDICAL TECHNOLOGY PATHWAY

A SATELLITE PROGRAM OF GCCC

### WHAT DOES THIS PATHWAY INVOLVE?

The Biomedical Science pathway is a four-course sequence designed to immerse students in hands-on, real-world healthcare and research experiences. Students learn how the human body works, investigate diseases, explore medical technologies, conduct research, and develop the skills needed for careers in medicine, healthcare, and biotechnology.

### COLLEGE CREDIT - CTAG CREDIT (OHIO)

- CTB001: Biotech I (aligned to PBS)
- CTB002: Biotech II (aligned to HBS/MI)

### WORK-BASED LEARNING OPPORTUNITIES

Students can participate in authentic healthcare and research experiences such as: Job Shadowing, Clinical Observations, Hospital or Clinic Rotations, Research Lab Experiences, College Simulation Labs, Healthcare Career Fairs & Professional Panels, Internships or Pre-Apprenticeships, HOSA, Capstone Research Project (BI course). These experiences connect classroom learning to real-world healthcare environments, helping students build professional skills and informed career goals.



### INDUSTRY CREDENTIALS

- Lean Six Sigma Yellow Belt
- Lean Six Sigma Green Belt
- First Aid & CPR/AED Cert.
- Stop the Bleed
- OSHA 10 – Healthcare or General Industry

### COMPATIBLE GRADUATION SEALS



*Note that seals may be earned through student work in this and other areas of study. Compatible seals are those which are supported by the work completed in this pathway, but may not be completed as part of regular coursework.*

 **Note:**

A \$30 CTSO fee (Career Technical Student Organization) course fee is required for all students annually. The fee will be collected by XHS for these courses, and includes the opportunity to compete in contests, participate in leadership training, conferences, and conventions, as well as travel and field trips.



## 0557 - PRINCIPLES OF BIOMEDICAL SCIENCE (PBS)

 **Semester Long Course / 0.5 Credit**

 **Prerequisite:**

- Must have completed Algebra I - OR - be enrolled in Algebra I
- Open to 9th & 10th grade students ONLY.

In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.

## 0558 - HUMAN BODY SYSTEMS (HONORS)

 **Year Long Course / 1.0 Credit**

 **Prerequisite:**

Open to juniors and seniors ONLY.

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.

## CAREER OPPORTUNITIES

### Entry Level

*(Directly after high school or short-term training)*

- Medical Assistant
- Certified Nursing Assistant (CNA)
- Phlebotomist
- Pharmacy Technician
- Emergency Medical Technician (EMT)
- Laboratory Assistant
- Dental Assistant
- Home Health Aide
- Patient Care Technician

### Advanced Level

*(Requires associate, bachelor's, or graduate degrees)*

- Registered Nurse (RN)
- Physician (MD, DO)
- Physician Assistant (PA)
- Nurse Practitioner (NP)
- Biomedical Scientist or Researcher
- Genetic Counselor
- Clinical Laboratory Scientist (MLS)
- Pharmacist
- Physical/Occupational Therapist
- Radiologic Technologist
- Epidemiologist
- Biomedical Engineer
- Public Health Specialist

## 0560 - MEDICAL INTERVENTIONS (HONORS)

🕒 *Year Long Course / 1.0 Credit*

✅ **Prerequisite:**

- Must have completed Human Body Systems and Medical Interventions.
- Open to seniors ONLY.

In the final course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent design project with a mentor or advisor from a university, medical facility, or research institution.

## 0559 - BIOMEDICAL INNOVATIONS (HONORS)

🕒 *Year Long Course / 1.0 Credit*

✅ **Prerequisite:**

- Must have completed Human Body Systems and Medical Interventions.
- Open to juniors and seniors ONLY.

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.



*A student works with a manikin as part of the Human Body Systems course.*

## 0561 - BIOMEDICAL SCIENCE CAPSTONE

🕒 *Year Long Course / 1.0 Credit*

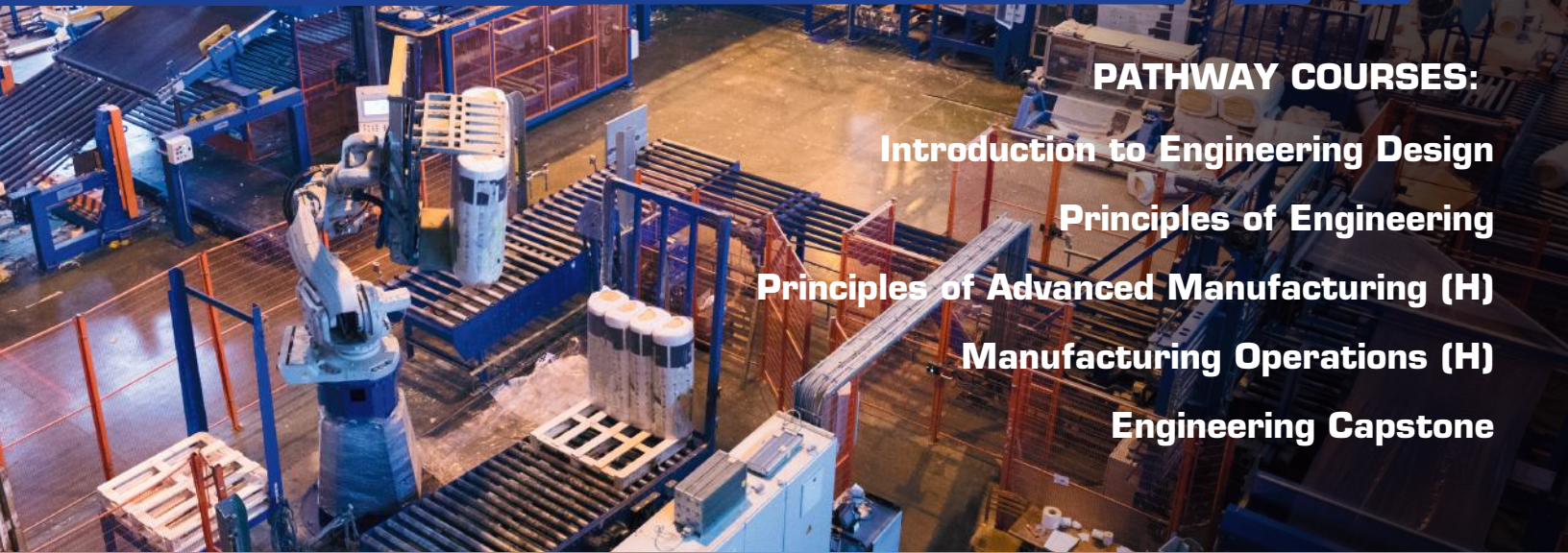
✅ **Prerequisite:**

Open to seniors ONLY.

The knowledge and skills students acquire throughout PLTW high school courses in biomedical science come together in PLTW Capstone as student teams pool resources to identify an issue or problem of interest and then research, design, and test a solution, ultimately presenting their solution to a panel of professionals. Students work with their team, drawing on the strengths and skills of each member, as they prepare themselves for the interdisciplinary collaboration required for success in college and career.

Students also have the option to be paired with a business in the biomedical field as either an employee, intern or shadow to gain real life work based learning. Students participating in work based learning will leave school during their scheduled biomedical sciences classes and will be evaluated by a work based learning coordinator.

# CTE: Manufacturing



## PATHWAY COURSES:

- Introduction to Engineering Design
- Principles of Engineering
- Principles of Advanced Manufacturing (H)
- Manufacturing Operations (H)
- Engineering Capstone



## ADVANCED MANUFACTURING & DESIGN PATHWAY

A SATELLITE PROGRAM OF GCCC

### WHAT DOES THIS PATHWAY INVOLVE?

Students explore the scope, rigor, and discipline of engineering and manufacturing. They learn the full lifecycle of the product—from concept to production. The pathway combines rigorous engineering principles with modern manufacturing skills.

### COLLEGE CREDIT (CTAG)

- **Manufacturing Operation**
- **Principles of Advanced Manufacturing**
- **Manufacturing Operations**
- **Scholarships:** Automatic enrollment in a program providing a \$3,000 scholarship to Sinclair Community College and Clark State College.

### WORK-BASED LEARNING OPPORTUNITIES

- **Capstone Experience:** Senior year project/problem-based learning occurring both in and away from school.
- **Professional Experience:** Cooperative education & apprenticeships.
- **WBL Hours:** The program tracks a goal of 250 hours of Work Based Learning.
- **Competitions:** Opportunities to compete in TSA events. (*see next page*)

### COMPATIBLE GRADUATION SEALS



*Note that seals may be earned through student work in this and other areas of study. Compatible seals are those which are supported by the work completed in this pathway, but may not be completed solely as part of regular coursework.*



### ALIGNED INDUSTRY CERTIFICATIONS & CREDENTIALS

SACA 4.0 (Smart Automation Certification Alliance)

Manufacturing Processes & Production (3 pts)

Safety (3 pts)

Quality Practices & Measurement (3 pts)

Lean Six Sigma (Potential, Year 2)

**Note:**

A \$30 CTSO fee (Career Technical Student Organization) course fee is required for all students annually. The fee will be collected by XHS for these courses. Membership includes the opportunity to compete in regional and national Technology Student Association (TSA) events.



## 0850 - INTRODUCTION TO ENGINEERING DESIGN

**Semester Course / 0.5 Credit**

**Prerequisite:**

Open to 9th & 10th grade students ONLY.

The major focus of this course is to learn how to take an idea through a design process that will eventually become manufactured or produced. Students will learn about various aspects of engineering and engineering design, such as how engineers communicate through drawing, how to apply what you learn through various activities, projects, and problems. In addition, students will use Inventor, which is a state of the art 3-D design software package from AutoDesk, to help design solutions to different design projects. Working in teams, students will learn about documenting solutions, solving problems, and communicating solutions to other students and members of the professional community of engineering and engineering design. The course covers the following: The role of an engineer, the design process, product design, product analysis & improvement, and designing as an engineer.

## 0851 - PRINCIPLES OF ENGINEERING

**Semester Course / 1.0 Credit**

**Prerequisite:**

Open to juniors and seniors ONLY.

This course exposes students to some of the major concepts that they will encounter in a postsecondary engineering course of study. Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

## 0852 - PRINCIPLES OF ADVANCED MANUFACTURING (HONORS)

**Semester Course / 1.0 Credit**

**Prerequisite:**

- Must have completed Principles of Engineering and Manufacturing Operations
- Open to seniors ONLY.

This course introduces students to modern manufacturing organizations, technology, business systems, and problem solving. Provides the fundamentals of Lean Manufacturing, Quality Systems and Statistical Process Control, documentation and standard operating procedures, concepts in measurement, geometric dimensioning and tolerancing, visualization, and graphics.



Engineering students work to program their robot to navigate obstacles in the lab.

## 0854 - MANUFACTURING OPERATIONS (HONORS)

🕒 *Semester Course / 1.0 Credit*

✔ **Prerequisite:**

- Must have completed Principles of Engineering.
- Open to juniors and seniors ONLY.

Students will learn the production processes applied across manufacturing operations. Students will be able to demonstrate a broad array of technical skills with an emphasis given to quality practices, measurement, maintenance and safety.

## 0856 - ENGINEERING CAPSTONE

🕒 *Semester Course / 1.0 Credit*

✔ **Prerequisite:**

- Students must have completed Principles of Engineering, Manufacturing Operations, and Principles of Advanced Manufacturing.
- This course is available to Seniors.

The capstone course provides opportunities for students to apply knowledge, attitudes and skills that were learned in a more comprehensive and authentic way. Capstones often include project/problem-based learning opportunities that occur both in and away from school. Under supervision of the school and through community partnerships, students may combine classroom learning with work experience. This course can be delivered through a variety of delivery methods including cooperative education or apprenticeship.

## CAREER OPPORTUNITIES

### *Entry Level*

#### *(Straight to Workforce/Apprenticeship)*

- Manufacturing Operator
- Quality Control Technician
- CAD Drafter/Junior Designer
- Machine Maintenance Apprentice
- Production Associate

### *Advanced Level*

#### *(Requires Post-Secondary Education/Experience)*

- Mechanical Engineer
- Industrial Engineer
- Manufacturing Manager
- Operations Manager



Students work in the lab at XHS.

# CTE: Marketing & Business

## PATHWAY COURSES:

**Business Foundations**  
**Marketing Principles**  
**Digital Marketing & Management**  
**Operations Management**  
**Marketing Capstone**



## BUSINESS & MARKETING PATHWAY

AT XENIA HIGH SCHOOL

### WHAT DOES THIS PATHWAY INVOLVE?

Marketing is an essential part of the business world and plays a key role in influencing consumer behavior, brand development, and sales. This course provides students with a foundational understanding of marketing principles, strategies, and techniques.

Through hands-on projects, case studies, and interactive discussions, students will explore real-world applications of marketing in various industries and discover career opportunities in fields such as advertising, public relations, market research, digital marketing, and sales.

### CAREER OUTLOOK

Careers in marketing include traditional marketing or in advertising agencies — but every type of business needs to market itself in one way or another. Marketers can work in technology, retail, health care, apparel, sports, manufacturing, finance, media, and many other industries.

Marketing careers often overlap and run together, but they can typically be divided into the general pathways of: marketing communications, marketing research, marketing management, merchandising, and professional selling.

### COMPATIBLE GRADUATION SEALS



*Note that seals may be earned through student work in this and other areas of study. Compatible seals are those which are supported by the work completed in this pathway, but may not be completed as part of regular coursework.*



### ALIGNED INDUSTRY CERTIFICATIONS & CREDENTIALS

- [Six Sigma Yellow Belt](#)
  - Point Value: 3
- [Leadership Excellence - Student](#)
  - Point Value: 3
- [Lean Six Sigma Green Belt Certificate](#)
  - Point Value: 6
- [Lead4Change](#)
  - Point Value: 3
- [Google Ads](#)
  - Point Value: 3

Learn more about  
industry credentials  
from ODEW:



 **Note:**

A \$30 CTSO fee (Career Technical Student Organization) course fee is required for all students annually. The fee will be collected by XHS for these courses. Membership includes the opportunity to compete in regional and national DECA events.



## 0711 - BUSINESS FOUNDATIONS

 *Semester Long Course / 0.5 Credit*

Learners will develop foundational professional skills, in addition to exploring fundamental business activities and concepts. This course also includes introductory learning outcomes from each of the four related pathways.

## 0712 - MARKETING PRINCIPLES

 *Semester Long Course / 0.5 Credit*

 **Prerequisite:**

Must have completed Business Foundations

Marketing Principles is the recommended second course in the Marketing pathway. Learners will develop fundamental skills and knowledge of the marketing functions, including marketing communications, marketing research, pricing, selling and branding. This course also includes learning outcomes in product and service development and social media communications.

## 0714 - DIGITAL MARKETING & MANAGEMENT

 *Semester Long Course / 0.5 Credit*

 **Prerequisite:**

- Must have completed Business Foundations and Marketing Principles.
- Open to juniors and seniors only.

Digital Marketing and Management explores how businesses identify and apply tools, strategies and processes to communicate digitally with targeted customers. Learners will develop knowledge and skills in the use of multiple digital marketing strategies, including social media, e-mail, websites, mobile marketing, etc. This course also incorporates learning outcomes in project, process and information management.

## 0715 - OPERATIONS MANAGEMENT

 *Semester Long Course / 0.5 Credit*

 **Prerequisite:**

Open to juniors and seniors only.

Operations Management explores how to plan, organize and monitor day-to-day business activities. Learners will develop knowledge and skills to plan production activities, promote workplace safety and manage inventory, quality control and operational risk. This course also includes learning outcomes in facilities management and managerial accounting.

## 0721 - MARKETING CAPSTONE

 *Semester Long Course / 0.5 Credit*

 **Prerequisite:**

- Students must have completed Digital Marketing & Management.
- This course is available to Seniors.

Students will apply knowledge, attitudes and skills that were learned in a Marketing program in a more comprehensive and authentic way in this capstone course. Capstones often include project-/problem-based learning opportunities that occur both in and away from school. Under supervision of the school and through community partnerships, students may combine classroom learning with work experience.

# CTE: Technology



## EARLY INFORMATION TECHNOLOGY (IT)

AT XENIA HIGH SCHOOL

### WHAT DOES THIS PATHWAY INVOLVE?

The Early IT pathway focuses on building core competencies in hardware, software, networking, and security that will prepare students for entry-level roles in careers that connect people with technology. It will also provide a solid foundation for those interested in a career in Computer Science and Computer Engineering.

Through the unique partnership forged by the University of Cincinnati, the program at XHS will allow students to complete the year one college curriculum while in high school, and success (achieving a C or above) in all nine (9) required courses will guarantee admission to the program at UC. (See next page for more information.)

### CAREER OUTLOOK

Students can go on to complete a Bachelor of Science degree in IT, Cyber, or Software Application Development. The program offers career options in most any Informational Technology Field.

### COMPATIBLE GRADUATION SEALS



*Note that seals may be earned through student work in this and other areas of study. Compatible seals are those which are supported by the work completed in this pathway, but may not be completed as part of regular coursework.*



### INDUSTRY CERTIFICATIONS & CREDENTIALS

- CompTia Tech+
- Network+
- Security+

### CAREER OPPORTUNITIES

- IT Support Specialist
- Help Desk Technician
- Network Support Specialist

## 0719 - FUNDAMENTALS OF INFORMATION TECHNOLOGY

🕒 *Semester Long Course / 0.5 Credit*

This course is an introduction to the field of Information Technology including technology concepts, terminology, hardware components and software applications. Students will be introduced to and asked to apply basic skills in the core areas of information technology such as programming, database management, networking, systems administration, and web development and the basic research, problem solving and decision-making skills required to be successful in this field. The course emphasizes the role of technical communication, project management, languages, tools, models and application architectures within the IT development process.

- Describe a history of computing and its associated disciplines.
- Identify and explain the specialty areas and basic concepts of Information Technology.
- Explain the information technology profession and available career paths.
- Apply introductory level skills and concepts related to productivity applications in information management, digital media, web technologies, programming, networking, and system administration.
- Demonstrate college-level communication, coordination and collaboration skills.

## 0720 - FUNDAMENTALS OF WEB DEVELOPMENT

🕒 *Year Long Course / 1.0 Credit*

This is a foundation course in Web Technology that covers the underpinnings of the technology and a variety of modern standards. The course covers modern web standards, well-formed and valid documents, semantic HTML, user-centered design of static web sites, styling and layout of Web documents with CSS, common tools for Website development. Emphasis is on coding syntactically correct Web documents which are also visually appealing, and accessible to users using assistive technologies. You will learn HTML5, CSS3, responsive and user-centric design, XML, and SVG. Hands- on active learning required.

- Publish locally created web pages to a web server for hosting.
- Create a semantically correct standards-compliant web pages.
- Use a variety of current Web technologies: HTML5, CSS3, XML, SVG.
- Apply responsive web design for addressing different devices.
- Evaluate websites for accessibility and visual appeal.

### BENEFITS OF THE PROGRAM: UC SCHOOL OF INFORMATION TECHNOLOGY



Students who complete the full curriculum in high school with a C or above are automatically admitted to **BSIT** or **BS-Cyber** at the University of Cincinnati, and are eligible to complete their first paid summer coop the summer after high school.

[Learn more on UC's Early IT FAQs page.](#)

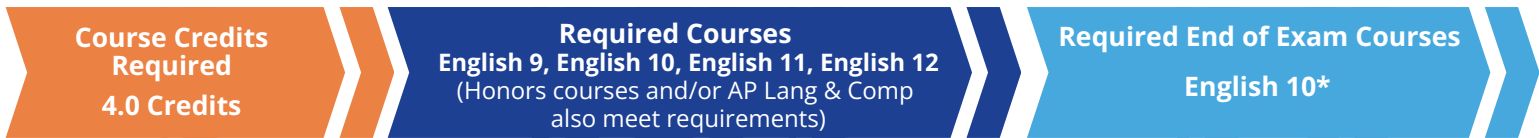




# ENGLISH-LANGUAGE ARTS (ELA)



## ENGLISH GRADUATION REQUIREMENTS



*\*Passing score required for graduation.*

The English Language Arts Department provides a vertically aligned curriculum **designed to develop strong readers, writers, thinkers, and communicators**. From ninth through twelfth grade, students **study world, multicultural, and American literature while strengthening writing, research, grammar, and speaking skills**. College Prep, Honors, AP, and College Credit Plus options support and challenge students as they prepare for graduation, state assessments, and postsecondary success.

In addition to core courses, the department offers electives and advanced **opportunities that connect literacy skills to college, career, and workforce readiness**. These courses emphasize professional **communication, creative and critical thinking, and academic discipline**, while allowing students to earn college credit through AP and College Credit Plus options.

ELA learning experiences prepare students for **real world communication and problem solving**. Through research, analysis, writing, and speaking, students **develop skills essential for college, the workplace, and civic life**, learning to collaborate effectively and adapt their communication for diverse audiences and real world situations.

### COMPATIBLE GRADUATION SEALS



*Note that seals may be earned through student work in this and other areas of study. Compatible seals are those which are supported by the work completed in these classes, but may not necessarily be completed as part of regular coursework.*

## 9th Grade Courses

### **0111 - ENGLISH 9**

 *Year Long Course / 1.0 Credit*

Ninth grade English will contain the following educational elements: study skills, technology skills, vocabulary, world literature, a library research project, writing skills which meet the requirements of the End of Course Exams, oral communication, and a grammar review.

### **0101 - HONORS ENGLISH 9**

 *Year Long Course / 1.0 Credit*

 **Prerequisite:**

Receive a recommendation from their eighth grade Language Arts teacher.

This course is geared to highly motivated students who are capable of considerable self-direction and whose academic records indicate ability in the language arts. The programs will include the essential elements of an English curriculum: writing and literature. In addition, projects that stress creativity in thought and writing technique will be required. Much work outside of class will be expected. The student will spend time in individual and collaborative projects.

## 10th Grade Courses

### **0112 - ENGLISH 10**

 *Year Long Course / 1.0 Credit*

 **OST: Graduation Requirement**

All tenth grade English will contain the following components: multicultural literature, a library research project, a career passport introduction, writing with an emphasis on expository and persuasive writing, vocabulary, oral communication, and a grammar review within the context of writing.

**Students will take the Ohio State Test for English 10 at the end of the course. Passing the English 10 OST is a graduation requirement.**

### **0102 - HONORS ENGLISH 10**

 *Year Long Course / 1.0 Credit*

 **OST: Graduation Requirement**

 **Prerequisite:**

Receive a recommendation from their ninth grade Language Arts teacher.

This course is geared to highly motivated students who are capable of considerable self-direction and whose academic records indicate ability in the language arts. The programs will include the essential elements of an English curriculum: writing and literature. In addition, projects that stress creativity in thought and writing technique will be required. Much work outside of class will be expected. The student will spend time in individual and collaborative projects.

## 11th Grade Courses

### **1113 - COLLEGE PREP ENGLISH 11**

🕒 *Year Long Course / 1.0 Credit*

College Prep English 11 focuses primarily on American literature. Throughout the course, students will read, explore, discuss, and write about multiple types of American literature, including speeches, foundational documents, poetry, short stories, novels, and essays. The focus of this language arts course will be integrating writing, reading, oral communication, visual skills, and listening skills. Students will compose pieces of writing for a variety of practical purposes, applying and refining their grammar skills in the context of their compositions. This class will address the needs of all juniors who need to complete their 3rd English credit. A variety of projects, such as a research paper and multi-media and/or oral presentations, will be required.

### **0103 - HONORS ENGLISH 11**

🕒 *Year Long Course / 1.0 Credit*

✔️ **Prerequisite:**

Receive a recommendation from their tenth grade Language Arts teacher to be eligible for this class.

Honors English 11 focuses primarily on American literature and explores how American history is reflected in the writings of each time period. This course will teach students how to identify and the rhetorical strategies used by authors and analyze the effect of those strategies. Throughout the course, students will develop their writing skills in order to effectively communicate messages to various audiences in a variety of formats. This course is for highly motivated students who are capable of considerable self-direction and whose academic records indicate ability in the language arts. Students will spend time in individual and collaborative projects. Students will also be expected to read outside of class. The class will culminate in a research paper.

## 12th Grade Courses

### **1114 COLLEGE PREP ENGLISH 12**

🕒 *Year Long Course / 1.0 Credit*

The focus of this language arts course will be integrating writing, reading, oral communication, visual skills, and listening skills. Students will compose pieces of writing for a variety of practical purposes, applying and refining their grammar skills in the context of their compositions. Students will read, explore, discuss, and write about various literary works in a variety of genres, including poetry, short stories, novels, and essays. This class will address the needs of seniors who plan to attend a two-year or four-year college. A variety of outside projects, such as research papers and multi-media and/or oral presentations will be required.

## AP & CCP English Courses

### **0146 - AP ENGLISH LANGUAGE AND COMPOSITION**

🕒 *Year Long Course / 1.0 Credit*

✔️ **Prerequisite:**

- Must have completed a minimum of two Honors English classes.
- Must have completed Honors English 11 with a grade of "B" or higher.
- Receive a recommendation from their eleventh grade Language Arts teacher.
- Students must pay for and take the AP English Language Arts test. The cost of this test is approximately \$100.

The goal and purpose of AP English Language and Composition is to help students write effectively and confidently in their college courses across the curriculum and in their profession and personal lives. The course is organized according to the requirements and guidelines of the current AP Language and Composition Course

Description. This AP course will begin with an introduction to rhetoric, and it will continue as a study of thematic units, such as Justice and Popular Culture. This course will prepare students for the AP English Language and Composition exam. With an appropriate score on the AP Exam, it is possible for students to receive college credit. Extensive reading and writing assignments outside of the classroom, as well as summer work assignments prior to the beginning of the school year, will be part of the class requirements.

## **ENG 1100 - ACADEMIC WRITING AND READING**

🕒 *Year Long Course / 3.0 College Credit Hours and 1.0 High School Credit*

✔️ **Prerequisite:**

This CCP class is offered through Wright State University. Students need to meet the requirements of Wright State University to enroll in this class.

Introduces students to principles of effective multi-literacy practices required of college-level thinkers, writers, readers, and communicators. Students are introduced to writing for different contexts with an emphasis on the differences between informal writing and formal, revised, research-based academic writing. Students are taught how to apply the writing process to plan a longer writing project, conduct college-level research, organize drafts, incorporate sources into their writing, give feedback to peer writers, receive feedback from peer writers, and refine their writing style for different audiences and purposes.

## **ENG 2040 - GREAT BOOKS: LITERATURE**

🕒 *Year Long Course / 3.0 College Credit Hours and 1.0 High School Credit*

✔️ **Prerequisite:**

This CCP class is offered through Wright State University. Students need to meet the requirements of Wright State University to enroll in this class.

Introduction to interpreting literature, using works from various periods and cultures, viewed in their social and historical contexts and read for their enduring interest.

# English Elective Courses

**Note: Courses do not count towards the four English credits required for graduation.**

## **0144 - DYSTOPIAN LITERATURE I**

🕒 *Semester Long Course / 0.5 Credit*

Dystopian Literature is a branch of the science fiction genre. This means we will read fictional works that explore social and political structures in “a dark, nightmare world”. This is a very popular genre with series like The Hunger Games, Divergent, The Maze Runner, Uglies, and Ready Player One. This course is a semester-long English elective class, with a semester A and semester B offered. This class is open to all grade levels. Through the course of the semester, we read two novels together as a class and compare them with their film companions. Then we end the semester with a project, the “Bloom Ball”, a sort of “book talk” based on a Dystopian novel. The books we read as a class will be decided by the class as a whole and they will change each semester.

## **0145 - DYSTOPIAN LITERATURE II**

🕒 *Semester Long Course / 0.5 Credit*

✔️ **Prerequisite:**

Students wishing to take this class must have completed Dystopian Literature I.

Second half of Dystopian Literature. Same concepts learned in Dystopian Literature I, new books will be covered.

## **0152 - SUPERNATURAL STUDIES IN LITERATURE**

🕒 *Semester Long Course / 0.5 Credit*

Do you enjoy reading? Are you enchanted by the darker side of literature? If so, Supernatural Literature is for you! The history, symbolism, and evolution of monsters and sundry creatures of the night will be analyzed and relished throughout the semester. From classic authors, like Mary Shelley (Frankenstein) and Bram Stoker (Dracula) to more contemporary authors, like Jim Butcher and Kim Harrison, students will read, discuss, write, present, and ponder.

## **0162 - PUBLIC PRESENTATION**

🕒 *Semester Long Course / 0.5 Credit*

This course is open to any student interested in improving their communication skills. Students are taught confidence building skills & techniques for speaking and presenting in front of groups. Skills for addressing a large public audience, job interviewing, selecting the right clothes, analyzing audiences, researching material, organizing material and making presentations of various types and lengths. Students will be involved in a variety of class presentations including demonstrations, persuasive speeches, and other types of short presentations. This class is designed for all types of students who are planning ahead for a variety of college and career options.

## **0147 - GREEK MYTHOLOGY**

🕒 *Semester Long Course / 0.5 Credit*

✅ *Prerequisite:*

This course is open to Juniors and seniors.

This course will focus on the myths of ancient Greece as a way of exploring the nature of myth and the function it plays for individuals, societies, and nations. We will also pay some attention to the way the Greeks themselves understood their own myths. This course will investigate a variety of topics as understood by ancient Greek society. Topics include the creation of the universe, the relationship between gods and mortals, human nature, religion, the family, love, madness, and death. This will require students to read, write, share their thoughts in classroom discussions, and present in a formal capacity.

### **ENGLISH LAB**

🕒 *Semester Long Course / 0.5 Credit*

✅ *Prerequisite:*

Available as a one-time option for students, based on teacher recommendation and/or the request of a parent/guardian.

English Lab provides a supportive environment for students to reinforce and practice English skills using a combination of digital media and traditional classroom instruction to support practicing reading strategies including fiction and non-fiction texts, writing and vocabulary.



# FINE ARTS: VISUAL ARTS

## **0909 - ART FUNDAMENTALS A** **0900 - ART FUNDAMENTALS B**

 **Semester Long Course / 0.5 Credit**

Students will gain experience using a variety of Art media and techniques. This class will focus on a sampling approach to many forms of art including Drawing, Painting, Printmaking, Ceramics, and Sculpture. The intent is to give Art students a variety of experiences to make an informed choice as it pertains to more focused and advanced art courses. All materials needed for this course are covered by the course fees, students will not need to purchase other supplies outside of school. As part of the course fees students will receive their own sketchbook, a variety of drawing pencils, and a variety of erasers needed in the drawing process.

## **0912 - BEGINNING DRAWING**

 **Semester Long Course / 0.5 Credit**

 **Prerequisite:**

Complete Art Fundamentals A.

This course will teach the beginning drawing student the skills necessary to render more realistic drawings from observation. The student will develop skills such as sighting in, measuring, toning as well as building and using tools to help with proportion and placement. Media will include numbered graphite, Color pencils and charcoal.

## **1912 - INTERMEDIATE DRAWING II**

 **Semester Long Course / 0.5 Credit**

 **Prerequisite:**

Complete Art Fundamentals A and Beginning Drawing.

This course will provide a continuation of Beginning Drawing and will further develop the student's skills of rendering from observation. Students will explore aspects of composition, set and lighting techniques. Students will also learn to draw simple compositions, large-scale setups with light sources and culminate with a realistic, life drawing. Media will include numbered graphite, charcoal and various drawing surfaces.

## **0913 - ADVANCED DRAWING III**

 **Semester Long Course / 0.5 Credit**

 **Prerequisite:**

Complete Art Fundamentals A, Beginning Drawing and Intermediate Drawing.

This course will provide a continuation of Intermediate Drawing and will further develop the student's skills of drawing from observation as well as explore other forms of rendering. Students will experiment with a variety of drawing styles and techniques as well as the use of varied mediums. The goal of this course is to develop the students' own individual, unique drawing style. The main project for this course will be learning to render a self-portrait from a life size photograph.

## 0916 - PAINTING

🕒 *Semester Long Course / 0.5 Credit*

✔️ **Prerequisite:**

Complete Art Fundamentals A.

This course will provide an introduction to the history and media of painting and will focus on the use of color theory as students work with a variety of paint media.

## 1917 - PAINTING II

🕒 *Semester Long Course / 0.5 Credit*

✔️ **Prerequisite:**

Complete Art Fundamentals A and Painting I.

This course will provide a continuation of Painting I and will finish the survey of painting media and provide students the opportunity to focus on individual interest and media and style.

## 0914 - CERAMIC HAND BUILDING

🕒 *Semester Long Course / 0.5 Credit*

✔️ **Prerequisite:**

Complete Art Fundamentals B.

This course will focus on the various aspects of hand building techniques with clay. Students will experience pinch pots, coil pots, slab constructions and sculpting as well as glazing and painting. Media will include two types of clay, various tools and glazes. Ceramic classes are an immersive experience and can create messes that can be cleaned up.

## 0915 - CERAMIC WHEEL WORKING

🕒 *Semester Long Course / 0.5 Credit*

✔️ **Prerequisite:**

Complete Art Fundamentals B and Ceramic Hand Building.

This course will focus on learning to use and create pieces on the Potter's Wheel. Students will learn techniques to prepare, center and pull clay on the Potter's Wheel. Students will create a variety of pieces including cups, bowls, mugs, and altered form. Media will include two types of clay, various tools, Potter's Wheels and glazes. Ceramic classes are an immersive experience and can create messes that can be cleaned up.

## 1918 - INTERMEDIATE CERAMICS

🕒 *Semester Long Course / 0.5 Credit*

✔️ **Prerequisite:**

Complete Art Fundamentals B, Ceramic Hand Building, and Ceramic Wheel Work.

This course will provide the ceramics student with the opportunity to continue to develop both Hand Building and Wheel Working skills. Students will create functional and decorative pieces, experiment with large-scale, altered forms, and work with additive and reductive aspects. Various glazing and resist techniques will also be explored.



## 0918 - THE ART OF THE ABSURD

🕒 *Semester Long Course / 0.5 Credit*

✅ **Prerequisite:**

Complete Art Fundamentals A.

Embark on a journey into the world of surrealism, where you will explore visionary works from the great masters like Salvador Dalí and René Magritte. Uncover how dreams and reality intertwine by creating art that challenges conventional boundaries and offers new ways to see the world. Unlock your subconscious and spark creativity in ways you never thought possible. This course will teach you to harness the power of combining dreams and reality to create works of art in a variety of artistic mediums.

## 0919 - WALLS THAT SPEAK: THE ART OF GRAFFITI

🕒 *Semester Long Course / 0.5 Credit*

✅ **Prerequisite:**

Complete Art Fundamentals A.

Open your mind to the concept that Graffiti is more than just art. It's a form of expression that amplifies voices and reflects the pulse of society. In this course, you will study renowned graffiti artists such as Banksy, Shepard Fairey, and Keith Haring to understand how their work shapes conversations around social justice, identity, and cultural awareness. Discover your artistic voice and express powerful messages through the art of graffiti.

## 0980 - STAGECRAFT

🕒 *Semester Long Course / 0.5 Credit*

✅ **Prerequisite:**

Complete Art Fundamentals A, B, or Theater I.

This class provides an opportunity for students who do not want to be directly "in" a play or musical but are interested in being involved in the "behind the scenes" aspect of stage production. Students will learn how the vision of the director sets the stage for the production; Students are directly involved in learning how to build stage sets and craft stage props. Students will also learn about costumes, stage makeup, special effects, lighting and sound systems, as well as stage and time management.





# FINE ARTS: PERFORMING ARTS



## 0976 - THEATER I

 *Semester Long Course / 0.5 Credit*

This course is designed for any student with an interest in drama/theater. This is an acting based course that will focus on beginning acting techniques, and a general introduction to all elements of the theater including acting, dance, musical theater, audition preparation, theatrical lighting, make-up, set design, & other aspects of the theater. Students will be exposed and work with material from a variety of plays & musicals.

## 0977 - THEATER II


 *Year Long Course / 1.0 Credit*

 *Prerequisite:*  
Complete Theater I.

This course will focus on acting, dance, plays, monologues, musical theater, beginning directing, theatrical make-up, set design and construction, prop design and construction, audition preparation, and all other elements of theatrical production. Students will be able to develop skills at their own level, and pursue specific interest areas of their own choosing. This course is designed for students with an interest in live plays and musicals. All students enrolled will participate in the creation of a staged production as a major project for this course. This production will be chosen and produced in cooperation between the teacher and students.


## 0978 - THEATER III

 *Year Long Course / 1.0 Credit*

 *Prerequisite:*  
Complete Theater I & II  
Students will pursue an advanced level of drama, acting, dance, and musical theater. Students will be involved in some experiences of theatrical directing. Students will serve as production assistants for all of the major productions throughout the year, and develop an understanding of careers and jobs in the theatrical community. Students will attend live theater productions. Students will participate in productions and the school while exploring all areas of technical theater. All students enrolled will participate in the creation of a staged production as a major project for this course. This production will be chosen and produced in cooperation between the teacher and students.

## 0979 - THEATER IV

 *Year Long Course / 1.0 Credit*

 *Prerequisite:*  
Complete Theater I, II & III  
Students will pursue an advanced level of drama, acting, dance, and musical theater. Students will be involved in some experiences of theatrical directing. Students will serve as production assistants for all of the major productions throughout the year, and develop an understanding of careers and jobs in the theatrical community. Students will attend live theater productions. Students will participate in productions and the school while exploring all areas of technical theater. All students enrolled will participate in the creation of a staged production as a major project for this course. This production will be chosen and produced in cooperation between the teacher and students.



# FINE ARTS: MUSIC



## 0933 - VOCAL ENSEMBLE

🕒 *Year Long Course / 1.0 Credit*

✔ **Prerequisite:**

Open to grades 10-12, by audition only. Auditions in May for the following year.

This course is designed for any student with an interest in drama/theater. This is an acting based course that will focus on beginning acting techniques, and a general introduction to all elements of the theater including acting, dance, musical theater, audition preparation, theatrical lighting, make-up, set design, & other aspects of the theater. Students will be exposed and work with material from a variety of plays & musicals.

📄 **Note:**

- **Performances:** Students will be required to attend after school performances, which are part of the student's class grade.
- **Cost:** Once students are measured for ensemble attire & items ordered, students are required to pay for their ensemble attire. All items must be paid for in full prior to the first performance. Approximate cost per student is \$200, depending on attire chosen by the student group.

## 0982 - CONCERT CHOIR

🕒 *Semester Long Course / 0.5 Credit*

Membership is open to all voices. It is recommended that students should have some singing experience, though it is not a requirement. A variety of music is covered, both sacred and secular. Sight-reading skills will also be included in classroom instruction. One concert performance per quarter is expected.

📄 **Note:**

Students will be required to attend after school performances, which are part of the student's grade.

## 0993 - PIANO I

## 0994 - PIANO II

## 0995 - PIANO III

🕒 *Semester Long Course / 0.5 Credit*

✔ **Prerequisite:**

- Complete previous level(s) of Piano with a B or better.
- Open to Grades 9, 10, 11, 12

Want to learn to play piano in a collegiate-style piano lab with individual headsets and progress at your own pace, with daily lessons during class? Then come sign up for Class Piano!

📄 **Note:**

Piano I requires no previous experience. Students enrolled in Class Piano III are highly suggested to audition for the after-school activity: XHS Jazz Band on Piano.

## 0996 - PIANO IV (HONORS)

🕒 *Semester Long Course / 0.5 Credit*

✔ **Prerequisite:**

Complete Piano III with a B or better.

Reserved for the most advanced piano students who are proficient in both sight-reading and piano performance. These performers should seek the approval of and audition for the instructor. This course is extensive and collegiate in nature, requiring performance at OMEA Solo and Ensemble Regional Contest.

📄 **Note:**

Students enrolled in Class Piano IV are highly suggested to audition for the after-school activity: XHS Jazz Band on Piano, and may choose to enroll in the XHS Symphonic Band for honors credit.

## 0952 - HONORS SYMPHONIC BAND

 **Year Long Course / 1.0 Credit**

 **Prerequisite:**

By audition or permission of the instructor.

 **Note:**

- Students MUST participate in fundraising projects AND attend performances outside of the regular school day.
- Students must be enrolled in a curricular band at XHS to participate in the following: Pep Band, Marching Band, Big Band, Jazz Band, Winter Indoor Percussion, OMEA Solo and Ensemble

The XHS Symphonic Band is made up of the most advanced instrumentalists at Xenia High School and is for students wishing to perform wind band literature at a very advanced high school and college/professional level. Students taking this class are highly encouraged to study their instrument with a professional teacher outside of the school setting. Rising juniors and seniors who have completed at least one year in Concert Band, Symphonic Band, or the equivalent should enroll in Symphonic Band. Rising sophomores may audition for placement in this ensemble. Truly outstanding freshman instrumentalists may be permitted to audition for Symphonic Band. The rehearsal process is focused on producing high-level performances that are musically expressive and technically polished. Central to attaining the course's goals is the achievement of ensemble performance excellence through each student's growth in the areas of knowledge, understanding, and skills. Growth in these areas is fostered through rehearsal and performance of wind band music written in a variety of styles. This music is presented at several concerts spread over the course of the school year. It is also the course's goal to create an atmosphere of thoughtful reflection and critical thinking and to foster a community in which students respect the music, the ensemble, and each other. Symphonic Band students are strongly encouraged to perform at the OMEA Solo and Ensemble adjudication event each winter. The Symphonic Band performs at the OMEA District Large Group Adjudicated Event in March, at the OMEA State Large Group Adjudicated Event in April (if qualified), at all regular band concerts, and may travel to national and international music festivals. Concerts and performances outside of school days are mandatory; no exceptions. Students who miss two or more concerts out of the four concert cycles in a school year may be removed from the course at directors discretion. Please visit [xeniabands.com](http://xeniabands.com) for more info!

## 0962 - CONCERT BAND

 **Year Long Course / 1.0 Credit**

 **Prerequisite:**

Complete 8th grade Band or by audition for the instructor. Open to grades 9, 10, 11, 12.

 **Note:**

- Students MUST participate in fundraising projects AND attend performances outside of the regular school day.
- Students must be enrolled in a curricular band at XHS to participate in the following: Pep Band, Marching Band, Big Band, Jazz Band, Winter Indoor Percussion, OMEA Solo and Ensemble

The XHS Concert Band is the high school ensemble in which all 9th-grade band students are enrolled unless an outstanding freshman audition warrants placement in the Symphonic Band. Students taking this course are provided with a balanced, comprehensive study of music through the concert band, which develops skills in the psychomotor, cognitive, and affective domains. Ensemble and solo activities are designed to develop elements of musicianship, including, but not limited to: (1) tone production, (2) technical skills, (3) intonation, (4) music reading skills, (5) listening skills, (6) analyzing music, and (7) studying historically significant styles of literature. Time outside of the school day may be scheduled for dress rehearsals and performances throughout the school year. Concert Band students are strongly encouraged to perform at the OMEA Solo and Ensemble adjudicate event each winter. The Concert Band may perform at the OMEA District Large Group Adjudicated Event in March, at the OMEA State Large Group Adjudicated Event in April (if qualified), at all regular band concerts, and may travel to national and international music festivals. Students enrolled in Concert Band or Symphonic Band have the option of participating in the XHS Marching Band, Jazz Band, and Pep Band. Concerts and performances outside of school days are mandatory; no exceptions. Students who miss two or more concerts out of the four concert cycles in a school year may be removed from the course at directors discretion. Please visit [xeniabands.com](http://xeniabands.com) for more info!

## 0975 - MUSIC HISTORY

🕒 *Semester Long Course / 0.5 Credit*

Mr. Lewis, the instructor for the course, likes Black Sabbath, Nikki Minaj, Lamb of God, Tool, Stone Temple Pilots, Alice In Chains, Pop Smoke, 2Pac, Nirvana, Led Zeppelin, CCR, Amy Winehouse, Childish Gambino, Lil Wayne, Skrillex, Frank Sinatra, Ravi Shankar and the Vienna Philharmonic Orchestra, amongst many more; yes, even classical indian-style tabla music. Do you like music? You want to listen to it on some top-of-the-line speakers in class and talk about music of all types? You like old school vinyl records; let's listen to some on a record player and talk about the process of making a record. This course is a study on the progression of music genres spanning the periods of Early Blues, Jazz, Rock and Roll, Classic Rock, R&B, Disco, Subgenres, Hip-Hop, Rap, Pop, and the most recent nuances in modern music, with emphasis on the art of listening. **No prior music experience is necessary.**

## 0922 - MUSIC THEORY I

🕒 *Semester Long Course / 0.5 Credit*

How would you like to know how to write your own music? Compose for movies? Arrange world-premiere symphonies, write music for video games, play guitar, banjo, and piano, and understand how the music world works? Music Theory I is intended for students who wish to become advanced in their knowledge of the mechanics of music. This course is designed to thoroughly examine the fundamentals while providing opportunities to stretch previously gained music theory knowledge and skills, whether you are at a beginner or advanced level of study. In Music Theory, we break down the mystery of music to the bare fundamentals to find out what makes it tick. We discover the elements that drive the dance and fuel the song. Topics covered will include notes/symbols, key signatures, modes and scales, intervals, harmony, chord structure, transposition, music composition, melodic and rhythmic dictation, and music analysis. Beyond the music, this course also teaches problem-solving, creativity, expression, and responsibility. Students wishing to study music at a collegiate level are highly encouraged to enroll in this course.

## 0923 - HONORS MUSIC THEORY II

🕒 *Semester Long Course / 0.5 Credit*

✔️ **Prerequisite:**

Complete Music Theory I or with instructor approval.

Would you like to be paid for the music you write? Would you like to know how the most famous composers compose the music that exists centuries later? Do you want to know how to join the ASCAP database and the foundation of American Composers Union? Would you like to be prepared for Music Theory, Music Education, Music Therapy, Vocal Music Education, and literally any music major you can think of? What chord progressions did Tchaikovsky use to write the most famous melodic structures known to the world in 'Swan Lake'? You'll learn that here. This is the class for you, and it's now for honors credit.





# FOREIGN LANGUAGES

AT XENIA HIGH SCHOOL



Students who are sincerely interested in learning another language, enhancing their knowledge of world cultures, increasing their scores on SAT, ACT or proficiency exams, and improving their future job prospects are strongly encouraged to study a foreign language offered at Xenia High School. It is highly recommended that all college-bound students complete at least two years of a foreign language.

## 0231 - SPANISH I

🕒 *Year Long Course / 1.0 Credit*

✔ **Prerequisite:**

Receive a recommendation from current Language Arts teacher.

Spanish I introduces the basics of speaking, listening comprehension, reading, and writing in Spanish. Students will reach a Novice Mid level of communication proficiency on topics including the following: basic conversations, likes, personal descriptions, school, food, family, and the home. Communication will focus on the present tense. The course incorporates Hispanic culture throughout the year.

## 0233 - SPANISH III

🕒 *Year Long Course / 1.0 Credit*

✔ **Prerequisite:**

Successfully complete Spanish II with a "B" or higher.

This course builds on the skills developed during the first two years and is the logical sequel to Spanish II for any student serious about learning Spanish or wishing to fulfill the recommended minimum for college admission. First-year emphasis on all four language skills is continued with a broadened knowledge of grammar and vocabulary. Students will reach an Intermediate Low level of communication proficiency on the topics of cooking, self care, passages of life, running errands and travel. Communication will focus on reviewing the preterite, the imperfect tenses along with learning how to communicate using the subjunctive. The course incorporates Hispanic culture throughout the year.

## 0232 - SPANISH II

🕒 *Year Long Course / 1.0 Credit*

✔ **Prerequisite:**

Successfully complete Spanish I with a "C" or higher.

This course is the logical sequel to Spanish I for any student serious about learning Spanish or wishing to fulfill the recommended minimum for college admission. First-year emphasis on all four language skills is continued with a broadened knowledge of grammar and vocabulary. Students will reach a Novice High level of communication proficiency on topics including the following: school, extracurricular activities, daily routine, clothing, body parts, and holidays. Communication will focus on the preterite and imperfect tenses. The course incorporates Hispanic culture throughout the year.

## 0233 - SPANISH IV (HONORS)

🕒 *Year Long Course / 1.0 Credit*

✔ **Prerequisite:**

Successfully complete Spanish III with a "B" or higher.

This course builds upon the previous years and is an honors course designed for students serious about learning and speaking Spanish. Students will reach an Intermediate Mid level of communication proficiency. They will continue to broaden their grammar and vocabulary base about the house and chores, cooking, professions, future plans, and travel. The history of the Spanish-speaking world is explored along with short stories and novels written by Spanish and Latin American writers. The course incorporates Hispanic culture throughout the year.



# HEALTH & PHYSICAL EDUCATION



**Course Credits  
Required**  
1.0 Credits

**Required Courses**  
0.5 Physical Education (2 semesters)  
0.5 Health

**Required End of Exam Courses**  
none

Under State law and Xenia Board of Education policy, students who participate in interscholastic athletics, marching band, or cheerleading for at least two (2) full seasons as defined in the student handbook, while enrolled in grades nine thru twelve, and as documented by their guidance counselor, may be excused from the high school physical education.

In order to have the Physical Education requirement for graduation waived, students must meet the following conditions:

1. Participate in *at least two full seasons* of the activities listed below:

Baseball	Basketball	Bowling	Cheerleading	Color Guard
Cross Country	Football	Golf	Wrestling	Marching Band
Lacrosse	Soccer	Softball	Swimming	Tennis
Track	Volleyball	JROTC		

2. Students must complete each season in good standing. If you become academically ineligible before the end of the season, then you have not completed the season in good standing.

3. Provide documentation to verify your participation for each season, with signatures from the head Coach and the Athletic Director or Principal. Verification forms need to be completed and turned in to the Guidance Office no later than two (2) weeks after the end of the season.

 **Note:**

The Greene County Career Center does not currently offer either of these credits. Students planning on attending the GCCC need to complete the Health and Physical Education requirement prior to their junior year. All Physical Education classes require students to wear the provided uniform in class as part of the participation grade.

## **0622 - HEALTH**

 ***Semester Long Course / 0.5 Credit***

For this course, textbooks and supplementary materials including video tapes are used. Areas covered are concerns of man for better health; Mental Health, Physical Health, and Social Health. Current issues in nutrition, drugs, alcohol, tobacco, first aid and cardiopulmonary resuscitation, fitness-recreation, personality and self-esteem, appearance, hygiene, and information regarding sexually transmitted diseases including AIDS are studied throughout the semester.

## **0602 - BOYS PHYSICAL EDUCATION** **0602A - GIRLS PHYSICAL EDUCATION**

 ***Semester Long Course / 0.25 Credit***

 **Note:**

Students must take two semesters of this course to meet the physical education requirement.

This class meets five times per week for one semester. The course includes pre- and post-physical fitness testing, weight training, recreational, individual and team activities along with life sports. Students will select a course activity, and participate in the activity in 2 week increments throughout the semester. Daily dressing in the XHS physical education uniform, daily participation, written assignments and tests are required.

## **0625 - OFFICIATING**

 ***Semester Long Course / 0.5 Credit***

 **Note:**

Students should take this course the semester before the season of the sport they plan on officiating begins. For example, if students would like to officiate basketball/wrestling, then they will need to take it in the fall (1st semester), and if students would like to officiate football/soccer, then they will need to take it in the spring (2nd semester).

Sports Officiating is designed to teach students the knowledge and skills necessary to become an OHSA certified official. Students will not only have the opportunity to become certified through REF PREPS, an online training program, but they will also receive classroom instruction on other aspects of being an official and officiating a contest.

Topics of the course will include: sport specific rules and mechanics; aspects of communication; building relationships and professionalism; scheduling, organizing, and financial skills; and handling conflict and confrontation. The class will consist of online instruction, class lecture and discussion, student presentations and participation, guest speakers, and field experience.



*A student works with an instructor to master officiating skills.*



## 0696-0699 - AIR FORCE JUNIOR RESERVE OFFICER TRAINING CLASS

🕒 *Year Long Course / 1.0 Credit*

💰 *Course Fee: \$30 per year*

✅ *Prerequisite:*

All cadets are REQUIRED to wear the Air Force JROTC service uniform and the issued fitness uniform at least one day each week. Uniform wear requires appropriate haircuts/shave for males, and appropriate haircuts for females. Students must also be willing to actively participate in one physical training (workout) session per week.

📄 *Note:*

There is no obligation or commitment to the military for participating in the AFJROTC courses. Cadets receive elective credit toward high school graduation by successfully passing AFJROTC classes.

## AIR FORCE JROTC I/II/III/IV

Note: AFJROTC offers a blended course option comprising Aerospace Science and Leadership Education

### Aerospace Science

The Aerospace Science portion of study includes the history of aviation, cultural awareness of major world regions, science of flight, space exploration, cyber, survival and corps management. Through the study of the history of aviation, cadets will learn about the development of flight throughout the centuries.

From the science of flight, students will become acquainted with the aerospace environment, weather, the human requirements of flight and the principles of navigation. Space exploration will equip students with the latest information available in space exploration and space science; the basic concepts of space are in this course. The science of flight and space courses are intended to complement material taught in high school math, physics, and other science-related courses.



*Service projects are a critical aspect of developing leadership skills for cadets.*

Through cultural studies, students will learn to see their world through many different perspectives. This course introduces students to the study of world affairs, regional studies, and cultural awareness. Students will learn to explore and discover the processes that shape the Earth, the relationships between people and environments, and the links between people and places.

### **Leadership Education**

The Leadership Education portion offers students many opportunities to shape their character. Students will learn about character development, while many character-building topics are discussed. Elements of good citizenship are instilled in students.

They are introduced to the Air Force organizational structure, uniform wear, military customs and courtesies, flag etiquette, citizenship in the United States, first aid, health and wellness, fitness, individual self-control, and basic drill and ceremonies.

They will learn to listen and think critically, effective communications, how to prepare for leadership, how to build personal awareness, key elements of building and encouraging effective teams, and key behaviors for becoming a credible and competent leader.



*AFJROTC honor guard prepares to present a flag to a local veteran on Veterans Day.*

Students will also learn about the importance of charting a career path, specific career options, how to create a personal budget and financial plan, how to write a resume, how to interview for a job, how to apply for college, the principles of management, making decisions, problem solving, human relations, and life skills. Grades 9-10-11-12

### **Co-Curricular Activities**

AFROTC offers several clubs and teams that further enhance the classroom experience such as radio controlled aircraft, model rocketry, drill team, orienteering, and academic groups.

Cadets must be enrolled in an AFROTC course and remain in good academic standing.

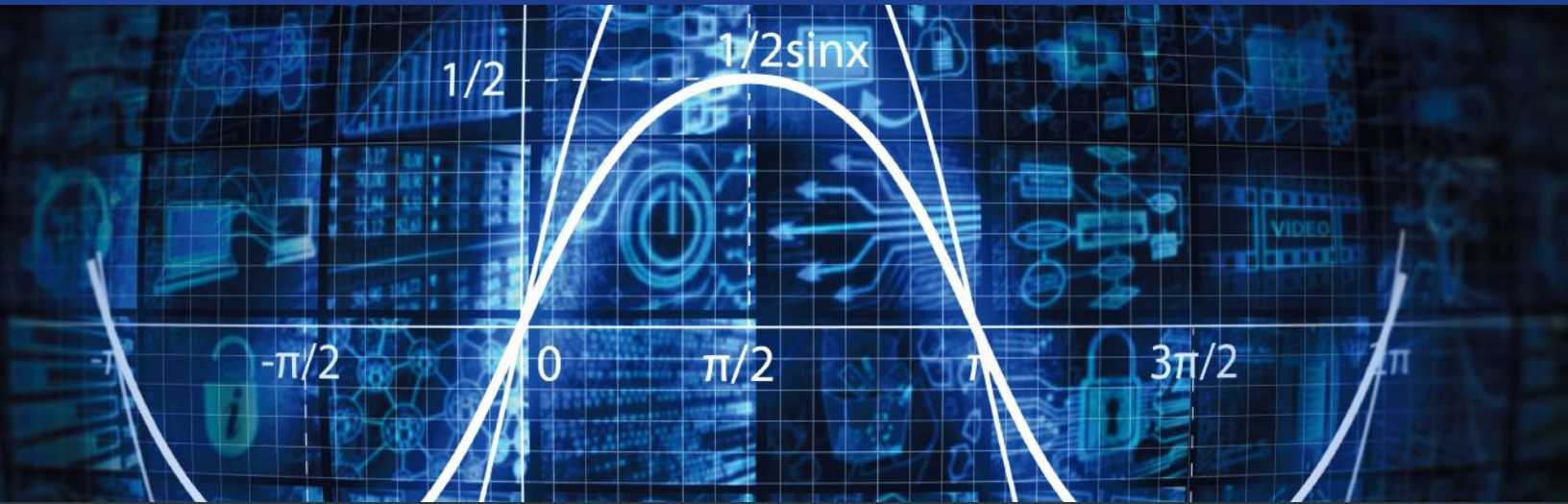
**Upon satisfactory completion of one year of AFJROTC, students will receive one general elective credit.  
After two years of satisfactory completion of AFROTC, students are eligible to receive the Physical Education Waiver authorized by the Ohio Department of Education.**



*Xenia High School's AFJROTC instructors and cadets underwent their initial formal unit evaluation and earned the overall score of "Meets Standards." (January 2024)*



# MATH



## MATHEMATICS GRADUATION REQUIREMENTS

Course Credits  
Required  
4.0 Credits

Required Courses  
Algebra I, Geometry, Algebra II/Data  
Science/Discrete Math + 4th Course

Required End of Exam Courses  
Algebra I\*  
Geometry

*\*Passing score required for graduation.*

The Mathematics Department offers a vertically aligned curriculum that **develops strong problem solvers, logical thinkers, and analytical decision makers**. Students build **skills in reasoning, modeling, computation, and the use of technology to solve problems** as they progress through multiple pathways designed to meet graduation requirements and prepare them for postsecondary success.

The department provides advanced and applied learning opportunities that **connect mathematics to college, career, and workforce readiness**. Emphasis is placed on **critical thinking, data analysis, precision, and persistence**, skills essential in fields such as science, technology, engineering, business, and health care. Opportunities to earn college credit further support students' readiness for higher education.

Mathematics learning **prepares students to address real world challenges with confidence**. Through analyzing data, identifying patterns, and solving practical problems, students develop skills needed for college, the workplace, and everyday life while learning to communicate and apply mathematical thinking effectively.

### COMPATIBLE GRADUATION SEALS



*Note that seals may be earned through student work in this and other areas of study. Compatible seals are those which are supported by the work completed in these classes, but may not necessarily be completed as part of regular coursework.*

# MATH PATHWAYS AT XHS

	8th	9th	10th	11th	12th
<b>COLLEGE &amp; CAREER PREP</b>	8th Grade Math	Algebra I	Geometry	<i>Options:</i> Algebra II, Algebra IIA, Data Science, Discrete Math	<i>Options:</i> Trig & PreCalc Data Science Discrete Math
<b>COLLEGE PREP: HONORS</b>	Advanced 8th Grade Math	Honors Algebra I	Honors Geometry	<i>Options:</i> Honors Algebra II	<i>Options:</i> Honors Trig & PreCalc Honors Prob & Stats AP Calculus
<b>COLLEGE PREP: ADVANCED</b>	Honors Algebra I	Honors Geometry	Honors Algebra II	<i>Options:</i> Honors Trig & PreCalc	<i>Options:</i> Honors Trig AP Calculus



## 0403 - ALGEBRA I

Year Long Course / 1.0 Credit

**OST: Graduation Requirement**

Algebra I gives students the essential foundation they need to excel in higher mathematics. Throughout the course, students will: learn to use basic algebraic tools to represent problem situations, gain a sound understanding of functions and their multiple representations, develop a solid understanding of rate of change, model and solve important problems with linear, exponential, and quadratic functions and related equations.



## 0401 - HONORS ALGEBRA I

Year Long Course / 1.0 Credit

**OST: Graduation Requirement**

**Prerequisite:**

Receive a recommendation from their eighth grade Math teacher to be eligible for this class.

This one-year course covers the same concepts and materials as the Algebra I course, but at a faster pace and in more depth. This course involves more abstract forms and develops more complex, real-life application problems.



**Students will take the Ohio State Test for Algebra I at the end of their selected Algebra I course. Passing the Algebra I OST is a graduation requirement.**

## 0422 - GEOMETRY

Year Long Course / 1.0 Credit

**Prerequisite:**

Successfully complete Algebra I or Honors Algebra I

This course is a study of plane and solid geometry. It includes precise definitions, theorems, and postulates relating to plane and solid figures. Algebra concepts are integrated throughout the course. Students will perform transformations and investigations as they study topics such as congruence and similarity; properties of lines, triangles, quadrilaterals, and circles; area; volumes; coordinate geometry; and basic right triangle trigonometry. Additional topics include various methods and types of proofs and coordinate geometry. This course sharpens thinking skills by teaching the process of logical reasoning and deductive thinking. The purpose of geometry is to prepare students to be able to utilize geometric concepts in the real world and in future studies.

## 0432 - HONORS GEOMETRY

Year Long Course / 1.0 Credit

**Prerequisite:**

- Successfully complete Honors Algebra I and pass the Algebra I OST.
- Receive a recommendation from their Honors Algebra I teacher.

This one-year course covers the same concepts and materials as the Geometry course, but at a faster pace and in more depth. This course involves more abstract forms and develops more complex, real-life application problems.



**Students will take the Ohio State Test for Geometry at the end of their selected Geometry course.**

## 0413 - ALGEBRA II

🕒 *Year Long Course / 1.0 Credit*

✅ **Prerequisite:**

Successfully complete Algebra I or Honors Algebra I.

Did you love the symbolic manipulation and abstract reasoning of Algebra I? Do you plan to pursue a calculus-based STEM career? Then Algebra II might be for you! This course extends the use of functions to include advanced polynomial, rational, radical and trigonometric functions, where solutions to problems in real-world situations are formulated, validated and analyzed. You will use mental, paper-and-pencil, algebraic and technology-based techniques and a variety of mathematical notation.

## 0414 - ALGEBRA II-A

🕒 *Year Long Course / 1.0 Credit*

✅ **Prerequisite:**

- Successfully complete Algebra I or Honors Algebra I
- Receive a recommendation from Math teacher

*This course is designed as the first part of a 2-year Algebra II program to meet the new Common Core Mathematics graduation requirement.*

The course is an introductory course to college-level mathematics. The curriculum for this course allows students to explore more detailed Algebra I topics such as linear algebra, polynomials, quadratics and functions.

**The curriculum will provide students with the first half of the Algebra II course. This course will serve as the prerequisite course for the Algebra II-B course.**

## 0423 - ALGEBRA II HONORS

🕒 *Year Long Course / 1.0 Credit*

✅ **Prerequisite:**

- Successfully complete Algebra I or Honors Algebra I
- Receive a recommendation from Math teacher

This course will be an extension of algebra concepts learned in previous courses. This course will cover such topics as systems of equations, advanced methods of working with polynomials, complex numbers, conic sections, sequences and series, and elementary probability.

## 0416 - DATA SCIENCE FOUNDATIONS

🕒 *Year Long Course / 1.0 Credit*

✅ **Prerequisite:**

- Successfully complete Algebra I or Honors Algebra I
- Receive a recommendation from current Math teacher

*This course can count towards a student's third or fourth unit of mathematics and is one of Ohio's new Algebra 2 equivalent Math Pathways' courses.*

The Data Science Foundations course teaches students to reason with and think critically about data in all forms. Ohio's Learning Standards for Mathematics relevant to data science are taught along with the data demands of good citizenship in the 21st century. It may include things such as describing big data; usability and usefulness of data; structured vs unstructured data; data extraction techniques; data storage; privacy issues; and data mining.

## 0417 - DISCRETE MATH/ COMPUTER SCIENCE

🕒 *Year Long Course / 1.0 Credit*

✔ **Prerequisite:**

- Successfully complete Algebra I or Honors Algebra I
- Receive a recommendation from current Math teacher

*This course can count towards a student's third or fourth unit of mathematics and is one of Ohio's new Algebra 2 equivalent Math Pathways' courses.*

Discrete Math/Computer Science (DMCS) will explore a variety of discrete math topics through a mix of hands-on classroom activities, traditional mathematical/logical reasoning and interactive computer science activities designed for students with no prior coding experience. Topics include Computational Thinking, Computer Logic, Game Theory, Counting/Combinatorics, Probability, Connectivity, Iteration and Recursion, and Cryptography. All topics emphasize logical reasoning, proof, and communication with precise mathematical and computer science language.

## 0496 - MATH MODELING & REASONING

🕒 *Year Long Course / 1.0 Credit*

✔ **Prerequisite:**

- Successfully complete Algebra I or Honors Algebra I
- Receive a recommendation from current Math teacher
- Open to sophomores, juniors and seniors

This course is designed to remediate basic math skills necessary to be successful in college math. Besides developing and improving basic skills, students will receive preparation for college math placements tests, such as the Accuplacer and Compass Tests, as well as the ACT Test.

## MATH LAB

🕒 *Semester Long Course / 0.5 Credit*

✔ **Prerequisite:**

Available as a one-time option for students, based on teacher recommendation and/or the request of a parent/guardian.

Math Lab provides a supportive environment for students to reinforce and practice math skills through hands-on activities, technology use, and individualized instruction, often focusing on concepts covered in other math classes, with the goal of improving understanding and application of mathematical concepts in real-world situations.

## Advanced Math Courses

### 0444 - TRIGONOMETRY & ADVANCED MATH

🕒 *Year Long Course / 1.0 Credit*

✔ **Prerequisite:**

Successfully complete Algebra II or Honors Algebra II with a grade of "C" or higher.

Trigonometry includes a study of the relationships between the angles and sides of a triangle, it includes the solution of equations which contain trigonometric relations, and it is used as a method of calculating measures indirectly. Advanced Math includes topics in college algebra and introduction to statistics and probability and a study of the conic sections.

### 0474 - HONORS TRIGONOMETRY & PRE-CALCULUS

🕒 *Year Long Course / 1.0 Credit*

✔ **Prerequisite:**

- Successfully complete Algebra I or Honors Algebra I
- Receive a recommendation from their Algebra II Honors teacher

The course will be an in-depth coverage of Trigonometry and related topics. The remainder of the course will cover topics preparing students to take Calculus, such as fundamental concepts of analytic geometry, conics, polar coordinates, parametric equations, and space coordinates and surfaces.

# AP/CCP Math Courses

## 0495 - AP CALCULUS

🕒 *Year Long Course / 1.0 Credit*

✅ **Prerequisite:**

- Successfully complete Honors Trigonometry & Pre-Calculus
- Receive a recommendation from their Honors Trigonometry & Pre-Calculus teacher

📖 **Note:**

- Summer work will be required for students taking this course.
- Students must have a graphing calculator.
- Students must pay for and take the AP Calculus test. The cost of this test is approximately \$100.

The AP Calculus course covers concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions. There may be study sessions before and after school to help prepare for the AP test.



## MAT 1450 - INTRODUCTION TO STATISTICS

🕒 *Year Long Course / 4.0 college semester hours, 1.0 high school Credit*

📖 **Note:**

- This CCP class is offered through Sinclair Community College. Students need to meet the requirements of Sinclair Community College to enroll in this class, which includes 2 years of high school math (Algebra I, Geometry) completed with a B average or higher, or an ACT score of 20 or higher, or an Aleks test score of 31 or higher.
- Students must have a CCP Letter of Intent completed by the April 1 deadline.

An introduction to the fundamental ideas of statistics, including statistical methods to gather, analyze and present data; fundamentals of probability; statistical distributions, sampling distributions, confidence intervals, hypothesis testing, Chi-square tests, regression and correlation.

## MAT 1470 - COLLEGE ALGEBRA

🕒 *Year Long Course / 3.0 college semester hours, 1.0 high school Credit*

📖 **Note:**

- This CCP class is offered through Sinclair Community College. Students need to meet the requirements of Sinclair Community College to enroll in this class which includes 3 years of high school math (Algebra I, Geometry, Algebra II) completed with a B average or higher or an ACT score of 22 or higher, or an Aleks test score (Sinclair's math placement test) of 39 or higher.
- Students must have a CCP Letter of Intent completed by the April 1 deadline.

Polynomial, radical, rational, exponential and logarithmic functions and their graphs; roots of polynomial functions, rational and polynomial inequalities; systems of linear and nonlinear equations; matrices; and applications.



# SCIENCE



## SCIENCE GRADUATION REQUIREMENTS

Course Credits  
Required  
3.0 Credits

Required Courses  
Biology, Physical Science (1),  
Advanced Science Course (1)

Required End of Exam Courses  
Biology

The Science Department offers a vertically aligned curriculum that **builds curiosity, critical thinking, and problem solving through hands-on, inquiry based learning**. From foundational physical and life sciences to advanced coursework, students **develop skills in observation, experimentation, data analysis, and scientific reasoning**. Multiple pathways support and challenge students as they meet graduation requirements and prepare for postsecondary success.

In addition to core coursework, the department provides advanced and applied learning opportunities that **connect science to college, career, and workforce readiness**. Emphasis is placed on **analytical thinking, collaboration, and the application of scientific principles to real world situations** in fields such as health care, engineering, environmental science, and technology. Opportunities to earn college credit further prepare students for the rigor and expectations of higher education.

Science learning experiences **prepare students to understand and engage with the world** around them. Through investigation, research, and problem solving, students **learn to evaluate evidence, think critically, and make informed decisions**. These skills support success in college, the workplace, and everyday life while fostering scientific literacy and responsible citizenship.

### COMPATIBLE GRADUATION SEALS



*Note that seals may be earned through student work in this and other areas of study. Compatible seals are those which are supported by the work completed in these classes, but may not necessarily be completed as part of regular coursework.*

## 0513 - SPECTRA OF SCIENCE

 *Year Long Course / 1.0 Credit*

 **Note:**

Fulfills the Physical Science credit requirement

This course is designed for current 9th grade students or transfer students who have not previously taken a physical science course. The focus of this course will be to strengthen a foundation in chemistry, physics, and astronomy. This hands-on, mind-on course is designed to demonstrate the relevance of science in everyday life as well as engage students in scientific processes and scientific problem solving. Spectra of Science is a prerequisite to Chemistry and Physics.

## 0503 - HONORS SPECTRA OF SCIENCE

 *Year Long Course / 1.0 Credit*

 **Prerequisite:**

- Receive a recommendation from their eighth grade science teacher.
- Must have completed (or be enrolled in) Honors Algebra I.

 **Note:**

- Students will be required to prepare and present a Science Fair Project during the third grading period.
- Fulfills the Physical Science credit requirement.

This course is intended for students who are highly motivated and responsible critical thinkers with intentions to pursue a career in a science-related field. The focus of the course will be to strengthen a foundation in chemistry, physics, and astronomy. This is a hands-on, mind-on class designed to demonstrate the relevance of science in everyday life as well as engage students in scientific processes and scientific problem solving. This course is tailored to prepare students for Honors Chemistry and/or Honors Physics. This class will move at an accelerated pace and will require a wider range of higher math skills. It involves a heavier course load including an expectation for daily homework. Students in this course are also required to complete a year-long Scientific Research Project that involves a lot of out-of-class work. This project will culminate in a mandatory Science Fair where students will present these projects.

## 0512 - BIOLOGY

 *Year Long Course / 1.0 Credit*


 **Prerequisite:**

Must have completed Spectra of Science or Honors Spectra of Science.

 **Note:**

Fulfills the Life Science credit requirement

This class is tailored to prepare students for the Ohio End of Course Biology exam. This class studies the Science behind organisms and all living things: their interactions, structure, function, development, and classification. The scientific tools of observation, investigation, research, recording and using data, and experimentation are employed. Some dissection is included.

 **Students will take the Ohio State Test for Biology at the end of the course.**

## 0502 - HONORS BIOLOGY

 *Year Long Course / 1.0 Credit*


 **Prerequisite:**

- Must have completed Honors Spectra of Science with a course grade of "B" or higher.
- Receive a recommendation from their Honors Spectra of Science teacher.

 **Note:**

Fulfills the Life Science credit requirement

This class is tailored to prepare students for the Ohio End of Course Biology exam. This class will study organisms and their interaction with the habitat and other living and environmental factors. It will also include a comparative study of structure, function, evolutionary development, and classification of organisms. The scientific tools of observation, investigation, research, recording and using data, and experimentation are employed. Some dissections are included in the comparative study of structure, function and classification. This course is intended for the A-B student who possesses motivation, thinks critically, and/or intends to pursue a career in a science-related field.

 **Students will take the Ohio State Test for Biology at the end of the course.**

## Advanced Science Courses

### 0543 - CHEMISTRY

🕒 *Year Long Course / 1.0 Credit*

✔️ *Prerequisite:*

Must have successfully completed two math credits, or be enrolled in Algebra II or Honors Algebra II.

This course is an introduction to the principles, techniques and applications of chemistry - the study of the structure and composition of matter and the changes it undergoes, the application of mathematics, particularly algebra, to science is emphasized. Topics covered in this class will include Scientific measurements and calculations; atomic structure; periodic properties; chemical bonding; chemical reactions and associated calculations; organic chemistry; gas properties; chemical equilibrium; acid-base theory; energy changes; and kinetics. Students enrolled in this class will be expected to do a considerable amount of out-of-class work.

### 0544 - HONORS CHEMISTRY

🕒 *Year Long Course / 1.0 Credit*

✔️ *Prerequisite:*

Must have successfully completed two math credits, or be enrolled in Algebra II or Honors Algebra II.

Chemistry is the study of the body of knowledge about the real world gained from observation, study and experimentation. The course is concerned with chemical interaction and composition with emphasis on problem solving. Lab activity is coordinated with topics such as atomic structure, stoichiometry, gas laws, toxic solutions, chemical kinetics, equilibrium, thermo-chemistry, quantum theory, solution chemistry, acids and bases, and oxidation reduction. Students who possess good abstract reasoning and memorization skills are excellent candidates for this class.

### 0553 - PHYSICS

🕒 *Year Long Course / 1.0 Credit*

✔️ *Prerequisite:*

Must have successfully completed Algebra II.

This course is a study of energy and its effects on matter. Topics include waves, sound, light, magnetism, electricity, motion, force, heat flow, and nuclear physics. The course is recommended to all students entering college. It emphasizes the development of problem solving skills and deals with concepts related to daily experience.

### 0554 - HONORS PHYSICS

🕒 *Year Long Course / 1.0 Credit*

✔️ *Prerequisite:*

Must have successfully completed Honors Algebra II.

This course consists of coverage of concepts in both classical and modern Physics. The characteristics of matter and energy are broken into studies of mechanics, thermodynamics, atomic structure and light, waves, electromagnetic force, and modern physics. The course is recommended for students entering engineering, architecture science, and medical science programs in college. A high degree of mathematical proficiency is required.

### 0563 - ANATOMY AND PHYSIOLOGY

🕒 *Year Long Course / 1.0 Credit*

✔️ *Prerequisite:*

Must have successfully completed a Biology and Chemistry course.

This class is open to all students who are planning to work in health related fields. If your career plans include entering the fields of medicine, nursing, paramedics, medical technology, massage therapy or biology this is the class for you. In addition to a detailed study of the human body, by cat and pig dissection, the class also focuses on developing college level study skills. Everyone must dissect. Testing is both oral and written.

### 0564 - HONORS ANATOMY AND PHYSIOLOGY

🕒 *Year Long Course / 1.0 Credit*

✔️ *Prerequisite:*

Must have successfully completed a Biology and Chemistry course.

This class is open to all students who are planning to work in health related fields. If your career plans include entering the fields of medicine, nursing, paramedics, medical technology, massage therapy or biology this is the class for you. In addition to a detailed study of the human body, by cat and pig dissection, the class also focuses on developing college level study skills. Everyone must dissect. Testing is both oral and written.

# AP and CCP Science Courses

## 0545 - AP CHEMISTRY

🕒 *Year Long Course / 1.0 Credit*

✔ **Prerequisite:**

- Successfully complete Honors Chemistry
- Receive a recommendation from a high school teacher.

📖 **Note:**

- Summer work will be required for students taking this course. Students who do not complete this work will be removed from this class.
- Students must pay for and take the AP Chemistry test. The cost of this test is approximately \$100.

Advanced Placement Chemistry is a second year chemistry course designed to be equivalent to the general chemistry course taken during the first year of college. This course involves 18 rigorous lab reports with a lot of data analysis. Students in this course should attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. A substantial and in-depth lab program is incorporated into the course. Topics to be studied include the atomic theory, atomic structure, chemical bonding, molecular models, nuclear chemistry, gasses, liquids, solids, solutions, reaction types, stoichiometry, equilibrium, chemical kinetics, thermodynamics, and acid-base theory. A section of descriptive chemistry will also be taught including an intense study of the periodic table and an introduction to organic chemistry and nuclear decay.



## CHM1210 - GENERAL CHEMISTRY I

🕒 *Semester Long Course / 5.0 college semester hours, 1.0 high school Credit*

✔ **Prerequisite:**

Successfully completed Honors Chemistry

📖 **Note:**

- This CCP class is offered through Clark State Community College. Students need to meet the requirements of Clark State Community College to enroll in this class.
- Students must have a CCP Letter of Intent completed by the April 1 deadline.

This course will cover the following topics: fundamental structures of atoms and molecules, introduction to quantum mechanics, atomic orbitals, principles of ionic, covalent and metallic bonding, valence bond and molecular orbital theories of bonding, mole concept, stoichiometry, acids and bases, oxidation-reduction chemistry, solutions, thermochemistry, the behavior of gases, classification of elements, nuclear chemistry, the application of chemistry in society, molecular modeling, collection, analysis and reporting of data, problem solving using algebraic methods.

## CHM1220 - GENERAL CHEMISTRY II

🕒 *Semester Long Course / 5.0 college semester hours, 1.0 high school credit*

✔ **Prerequisite:**

Successfully completed Honors Chemistry and General Chemistry I with a grade of "C" or higher.

📖 **Note:**

- This CCP class is offered through Clark State Community College. Students need to meet the requirements of Clark State Community College to enroll in this class.
- Students must have a CCP Letter of Intent completed by the April 1 deadline.

This course will cover Intermolecular forces and phase changes, solutions and colligative properties, chemical kinetics, chemical equilibrium, acid-base equilibria, thermodynamics, electrochemistry, descriptive chemistry (including chemical properties and classification of elements), periodic patterns of reactivity, introduction to organic and biochemistry, applications of chemistry in society, analysis and reporting of data, problem solving using algebraic methods.

## BIO1111 - GENERAL BIOLOGY I

🕒 *Semester Long Course / 4.0 college semester hours, 1.0 high school credit*

📖 **Note:**

This CCP class is offered through Sinclair Community College. Students need to meet the requirements of Sinclair Community College to enroll in this class.

This course is designed as the first in a series of two general education science courses. Covers basic chemistry and biochemistry; cellular and molecular biology.

## BIO1211 - GENERAL BIOLOGY II

🕒 *Semester Long Course / 5.0 college semester hours, 1.0 high school credit*

✅ **Prerequisite:**

- Successfully complete General Biology I with a grade of "C" or better,

📖 **Note:**

This CCP class is offered through Sinclair Community College. Students need to meet the requirements of SCC to enroll in this class.

This course is designed as the second in a series of two general education science courses. Covers evolution, biodiversity and ecology.

## Science Elective Courses

### 0522 - ECOLOGY AND BIOMES

🕒 *Semester Long Course / 0.5 credit*

✅ **Prerequisite:**

Open to juniors and seniors.

The focus of this Environmental Science course is Ecology and Biome Study. Students will study the nature of science, basic scientific procedure and scientific method, ecological principles (food web, symbiosis, evolution, population growth), and a survey of the different land and aquatic biomes. Students will complete a major environmental student project as part of the course requirement.

### 1522 - ENVIRONMENTAL ISSUES

🕒 *Semester Long Course / 0.5 credit*

✅ **Prerequisite:**

Open to juniors and seniors.

This Environmental Science course discusses the environmental issues facing us today, such as the many different forms and causes of pollution, loss of biodiversity, human population growth, waste disposal, and global warming, and possible fixes or alternatives for all of those. An emphasis is placed on water testing labs, soil sampling, & other environmental assays. Students may be required to complete a major environmental project.

### 0572 - DANGEROUS EARTH

🕒 *Semester Long Course / 0.5 credit*

✅ **Prerequisite:**

Open to juniors and seniors.

Dangerous Earth is a one-semester course designed to give an overview of the geologic hazards that

threaten us every day. Topics covered include volcanoes, earthquakes, floods, weather phenomenon and other common hazards. Emphasis will be on knowledge, awareness, and dealing with problems associated with the various hazards on our planet. Prerequisite for this course is a zest to understand how our living planet works.

### 0562 - METEOROLOGY

🕒 *Semester Long Course / 0.5 credit*

✅ **Prerequisite:**

Open to juniors and seniors.

Metrology is a one-semester course focusing on the Earth's atmosphere. Topics covered will include structure and composition of the atmosphere, weather phenomena such as hurricanes, tornadoes, and lightning. A national weather map and the reading of Isaac's Storm are two major projects in the course. Forecasting will be emphasized throughout the course.

### 0542 - ASTRONOMY

🕒 *Semester Long Course / 0.5 credit*

✅ **Prerequisite:**

Open to juniors and seniors.

Astronomy is a one-semester course focusing on the Earth's place in our vast universe. Topics included are the solar system, constellations, the make-up of the universe and how scientists study it. Cosmology will be discussed including relativity and string theory. Night observations will be offered using the "Cassegrain" Scope.



# SOCIAL STUDIES



## SOCIAL STUDIES GRADUATION REQUIREMENTS

Course Credits  
Required  
3.0 Credits

Required Courses  
U.S. History (1), American Gov. (1),  
World History & Civilizations (1)

Required End of Exam Courses  
U.S. History  
American Government

The Social Studies Department provides a vertically aligned curriculum that helps students **understand historical events, global relationships, and civic responsibilities**. Through the study of United States history, world history, and government, students **develop skills in critical reading, analysis of primary sources, research, and written and oral communication**. Multiple pathways support and challenge students as they meet graduation requirements, state assessments, and postsecondary expectations.

In addition to core coursework, the department offers advanced and applied learning opportunities that **connect social studies to college, career, and workforce readiness**. Emphasis is placed on **analytical thinking, informed decision making, financial literacy, and understanding political and economic systems**. Opportunities to earn college credit prepare students for the rigor of higher education while strengthening skills valued across careers.

Social studies learning experiences prepare students to be informed, engaged citizens in a complex world. By examining diverse perspectives and real world issues, students learn to **evaluate information, think critically, and participate thoughtfully** in civic and professional settings. These skills support success in college, the workplace, and lifelong civic engagement.

### COMPATIBLE GRADUATION SEALS



*Note that seals may be earned through student work in this and other areas of study. Compatible seals are those which are supported by the work completed in these classes, but may not necessarily be completed as part of regular coursework.*

## 0310 - UNITED STATES HISTORY

 *Year Long Course / 1.0 Credit*

 **Note:**

Fulfills the U.S. History credit requirement. The course covers American history from 1865 to the present. Emphasized topics in this class include Industrialism; Immigration; the Progressive Movement; American Imperialism; World War I; the “Roaring 1920’s”; The Great Depression; the New Deal; World War II; the Cold War; the Civil Rights Era; and the post-Cold War era. Students will also analyze major historical documents in American History.



**Students will take the Ohio State Test for U.S. History at the end of the course.**

## 0311 - HONORS UNITED STATES HISTORY

 *Year Long Course / 1.0 Credit*

 **Prerequisite:**

Receive a recommendation from their eighth grade Social Studies teacher

 **Note:**

- Fulfills the U.S. History credit requirement.
- As part of the course, there will be assignments that must be completed during the summer before the start of the school year. Failure to complete this work could result in being removed from Honors History and being placed in another U.S. History class.

This class also covers American history from 1865 to the present, and emphasizes the same topics as US History, and students will analyze major historical documents in American History. Additionally, this class will be structured to prepare students for Advanced Placement (AP) courses. Students will be expected to do extensive reading and essay writing.



**Students will take the Ohio State Test for U.S. History at the end of the course.**

## 0312 - WORLD HISTORY

 *Year Long Course / 1.0 Credit*

 **Note:**

Fulfills the World History and Civilizations credit requirement

The course examines important events in world history which occur between 1600 and the present. Students will explore the impact of the Democratic and Industrial Revolutions; the forces that led to world domination by European powers; the wars that changed the various European empires; the ideas that led to independence movements in various European colonies; and the effects of global interdependence on economic and political relationships between nations. Students will be expected to be able to read and understand primary sources of information, and continue to develop their ability to look at social, economic, and political issues from multiple viewpoints.

## 0315 - HONORS WORLD HISTORY

 *Year Long Course / 1.0 Credit*

 **Prerequisite:**

Receive a recommendation from their ninth grade U.S. History teacher

 **Note:**

- Fulfills the World History and Civilizations credit requirement
- As part of the course, there will be assignments that must be completed during the summer before the start of the school year. Failure to complete this work could result in being removed from Honors World History and being placed in another World History class.

The course also examines important events in world history which occur between 1600 and the present, but will place a greater emphasis on historical analysis, analytical writing, and identifying connections between various forces as they interact in a global arena. Students will explore the impact of the Democratic and Industrial Revolutions; the forces that led to world domination by European powers; the wars that changed the various European empires; the ideas that led to independence movements in various European colonies; and the effects of global interdependence on economic and political relationships between nations. Significant independent reading, writing and analytical homework should be expected on a regular basis. Class participation and preparedness will be necessary in order to collaborate in this course.

## 0334 - AMERICAN GOVERNMENT

 *Year Long Course / 1.0 Credit*

 **Note:**

Fulfills the American Government credit requirement.

In this class, students will learn about and discuss the workings of our national, state, and local governments as they relate to everyday life for American citizens. Topics of interest include the basic workings of the legislative, judicial, and executive branches of government; the impact of political parties; and the interaction of local, state, and national governments. The class will also require research topics like the development of political and economic systems in foreign countries, the State of Ohio, and decisions handed down by the Supreme Court. Students will take the Ohio State Test for American Government at the end of the course.



**Students will take the Ohio State Test for American Government at the end of the course.**

## 0335 - HONORS AMERICAN GOVERNMENT

 *Year Long Course / 1.0 Credit*

 **Note:**

- Fulfills the American Government credit requirement.
- As part of the course, there will be assignments that must be completed during the summer before the start of the school year. Failure to complete this work could result in being removed from the Honors class and being placed in another class.

In this class, students will learn about and discuss the workings of our national, state, and local governments as they relate to everyday life for American citizens. Topics of interest include the basic workings of the legislative, judicial, and executive branches of government; the impact of political parties; and the interaction of local, state, and national governments. The class will also require research topics like the development of political and economic systems in foreign countries, the State of Ohio, and decisions handed down by the Supreme Court. Extensive reading and essay writing will be required in this class.



**Students will take the Ohio State Test for American Government at the end of the course.**

## AP and CCP Social Studies Courses

### 0322 - AP U.S. HISTORY

 *Year Long Course / 1.0 Credit*

 **Note:**

- Fulfills the US History credit requirement.
- As part of the course, there will be assignments that must be completed during the summer before the start of the school year. Failure to complete this work could result in being removed from the class.
- Students must pay for and take the AP U.S. History test. The cost of this test is approximately \$100.

Advanced Placement US History is a course designed to be the equivalent of a survey US History course taken during the first year of college. Students in this course will attain a mastery of general facts and chronology of US History from Colonial times to the present. Students will also gain a knowledge and understanding of the major documents in American History and develop their ability to determine and explain the interaction of ideas and events in the course of history. Study sessions before and after school, practice test sessions, and other enrichment opportunities will be offered throughout the year.

### 0313 - AP WORLD HISTORY

🕒 *Year Long Course / 1.0 Credit*

✔ **Prerequisite:**

Receive a recommendation from their ninth grade US History teacher or their tenth grade World History teacher.

📖 **Note:**

- Fulfills the World History and Civilizations credit requirement.
- Students must pay for and take the AP World History test. The cost of this test is approximately \$100.

This class fulfills the XHS World History graduation requirement. The course will cover the scope of World History from 1450 through modern day. The course will follow the curricular requirements of an Advanced Placement World History course. Major themes which will be studied include the Renaissance and Reformation, the Scientific Revolution and enlightenment, the French Revolution and Napoleonic Era, and the 20th century conflicts in Europe. Students will be expected to read selected texts on a regular basis, participate in significant written and verbal discussions. A variety of methods will be used to facilitate learning in the class including: podcasts, scholarly articles, case studies, debates, multi-media research projects, verbal and written presentations, videos, and guest lecturers. Study sessions before and after school, practice test sessions, and other enrichment opportunities will be offered.

### 0355 - AP HUMAN GEOGRAPHY

🕒 *Year Long Course / 1.0 Credit*

📖 **Note:**

Students must pay for and take the AP World History test. The cost of this test is approximately \$100.

AP Human Geography introduces high school students to college-level introductory human geography or cultural geography. The content is presented thematically rather than regionally and is organized around the discipline's main subfields: economic geography, cultural geography, political geography, and urban geography. The approach is spatial and problem oriented. Case studies are drawn from all world regions, with an emphasis on understanding the world in which we live today. Historical information serves to enrich analysis of the impacts of phenomena such as globalization, colonialism, and human-environment relationships on places, regions, cultural landscapes, and patterns of interaction.

### 0333 - AP UNITED STATES GOVERNMENT & POLITICS

🕒 *Year Long Course / 1.0 Credit*

✔ **Prerequisite:**

- Receive a recommendation from their U.S. History teacher or their World History teacher.
- Open to juniors and seniors.

📖 **Note:**

- Fulfills the American Government credit requirement.
- As part of the course, there will be assignments that must be completed during the summer before the start of the school year. Failure to complete this work before the start of the school year could result in being removed from this class.
- Students must pay for and take the AP U.S. History test. The cost of this test is approximately \$100.

The major purpose of this course is to help students gain an understanding of American politics and the conceptual processes of government that help shape our public policies through written and oral presentations. This course offers students an analytical perspective on government and politics in the United States. Students will compare the governmental systems of the United States to those of foreign governments. This course will examine the political behavior of citizens and the behavior associated with the political system of the United States. Students will be expected to actively participate in daily classroom discussion and complete various research projects.

### PSY1100 - GENERAL PSYCHOLOGY

🕒 *Semester Long Course / 3.0 college semester hours / 1.0 high school credit*

📖 **Note:**

This CCP class is offered through Sinclair Community College. Students need to meet the requirements of Sinclair Community College to enroll in this class.

This course covers topics such as history and systems of psychology, behavioral research methods, physiology of behavior, sensation, perception, learning, memory, consciousness, cognition, personality, lifespan development, gender, social psychology, motivation, emotion, stress, mental disorders and therapies.

# Social Studies Elective Courses

## 0344 - ECONOMICS

🕒 *Semester Long Course / 0.5 credit*

✔️ **Prerequisite:**

Open to sophomores, juniors and seniors

📄 **Note:**

Fulfills the XHS financial literacy requirement.  
See Financial Literacy option, page 73.

This course explores the fundamentals that guide individuals and nations as they make choices about how to use limited resources to satisfy their economic wants and needs. More specifically, it examines the ability of individuals to use knowledge and skills to manage limited financial resources more effectively for a lifetime of financial security.

## 0345 - HONORS ECONOMICS

🕒 *Semester Long Course / 0.5 credit*

✔️ **Prerequisite:**

Open to sophomores, juniors and seniors

📄 **Note:**

Fulfills the XHS financial literacy requirement.

This course is designed for the student who plans to take Economics in college. It deals with traditional and classical economic theory, production of goods and services, money, credit, banking, government finance, taxation, Gross Domestic Product (GDP), and business cycles. Students should expect mathematical applications to be utilized.

## 0353 - PSYCHOLOGY

🕒 *Semester Long Course / 0.5 credit*

✔️ **Prerequisite:**

Open to sophomores, juniors and seniors

This course will try to answer some of the questions as to why we think and behave the way we do and provide a solid basis for understanding Introductory Psychology. This course will examine: the roots of psychology; theories of cognitive development; human development psychology; personality adjustment, and conflict; psychological disorders and treatment; and social psychology. The course begins with an in-depth look at our own learning styles and attempts to integrate our strengths into learning throughout the course. Students are expected to come into this course with an attitude towards reflecting and sharing how the psychological issues discussed impact their life. Students must be willing to participate in significant written and/or verbal personal reflection, and in small and large group discussions. A variety of methods will be used to facilitate learning in the class including, but not limited to: podcasts, scholarly articles, case studies, debates, multi-media research projects, verbal and written presentations, and guest lecturers.

## 0373 - THE MODERN WORLD

🕒 *Semester Long Course / 0.5 credit*

✔️ **Prerequisite:**

Open to sophomores, juniors and seniors

This course will study the historical background of nine critical issues facing the world today. Students should expect to study major conflicts and economic challenges associated with each. These nine issues will help students understand the background of topics they see in the news. Research from the student is expected. Homework will include collecting information from the media



Teachers and students work together to complete a class project.

## Social Studies Electives (continued)



### 0672 - FINANCIAL LITERACY

🕒 *Semester Long Course / 0.5 Credit*

Financial Literacy is defined as the ability to read, analyze, manage and communicate about personal financial conditions that affect one's material well-being. It includes the ability to discern financial choices, discuss money and financial issues without (or despite) discomfort, plan for the future and respond completely to life events that affect everyday financial decisions, including events in the general economy. In this course, students will study financial responsibility and decision making, planning and money management, how to be an informed consumer, investing, credit and debit, and risk management and insurance.



### 0013 - LEADERSHIP DEVELOPMENT (STUDENT COUNCIL)

🕒 *Year Long Course / 1.0 Credit*

✔ **Prerequisite:**

Students must obtain permission from the instructor to take this course.

📖 **Note:**

This course is primarily composed of Student Council members, including the Executive Committee, though it is not a prerequisite to be a part of Student Council in order to enroll.

The Leadership Development course at Xenia High School is a one-year elective designed to prepare students for leadership roles both in college and in their future careers. Through active participation, students will develop key skills such as communication, organization, goal setting, collaboration, event planning, time management, public speaking, and critical thinking. The course focuses on planning and executing activities that benefit the student body, staff, and community. Students are expected to model outstanding behavior and character, exemplifying the values of leadership and service throughout the year.





# VOCATIONAL EDUCATION: CAREER-BASED INTERVENTION AT XENIA HIGH SCHOOL



This Career-Based Intervention (CBI) Work-Based Learning course is a comprehensive program designed to equip students with the essential career-readiness skills and industry credentials needed for success in the modern workforce.

***In this course, students will focus on mastering critical soft skills for employment, including:***

- **Communication Techniques:** Learning to articulate ideas clearly, listen effectively, and communicate professionally in various workplace settings.
- **Interviewing Techniques:** Practicing strategies to ace job interviews, including professional presentation, answering challenging questions, and following up.
- **Resume Writing:** Developing a professional and impactful resume that highlights skills, experience, and achievements.
- **Working in Teams:** Cultivating collaboration skills, managing conflict, and contributing positively to team goals.

***Learning extends beyond the classroom through valuable experiential activities:***

- **Employer Engagement:** Interacting directly with speakers from local employers who will share industry insights and career expectations.
- **Modern Factory Field Trips:** Touring new, state-of-the-art facilities, such as QQE in Beavercreek, to observe modern manufacturing processes and workplace environments firsthand.
- **College Exploration:** Visiting and touring Sinclair Community College to explore post-secondary educational and career pathway options.

## **CERTIFICATION / CREDENTIAL OPPORTUNITIES:**

- Yellow Belt Training
- Leadership Excellence
- Green Belt Training



# VOCATIONAL EDUCATION: FAMILY & CONSUMER SCIENCE

AT XENIA HIGH SCHOOL



## **0680 - FOOD SCIENCE**

🕒 *Semester Long Course / 0.5 Credit*

In this course, students will apply basic culinary practices and understand how flavor, texture and appearance are affected during food preparation. Students will evaluate chemical reactions as they occur in cooking methods and assess how to control high-risk food safety situations. Food safety and sanitation techniques will align to industry-recognized certifications.

## **0682 - PRINCIPLES OF NUTRITION & WELLNESS**

🕒 *Semester Long Course / 0.5 Credit*

✔️ *Prerequisite: Food Science, Culinary Fundamentals*

The focus of this class is to help students analyze their personal nutrition needs and then set goals to reach them through class and laboratory experiences. Areas of study include nutrition, psychological and social factors that affect wellness and competition, relationship between eating and performance, and how to select and prepare foods that meet wellness needs. This course will be especially beneficial for students planning on a career in Sports Medicine, Nutrition, and Culinary Arts.

## **0681 - CULINARY FUNDAMENTALS**

🕒 *Semester Long Course / 0.5 Credit*

✔️ *Prerequisite: Food Science*

In this course, students will apply fundamental culinary techniques, such as knife handling skills and the recognition, selection and proper use of tools and equipment. An emphasis will be placed on mise en place, the management of time, ingredients and equipment. Students will apply standard recipe conversions using proper scaling and measurement techniques.

## **0683 - PERSONAL WELLNESS**

🕒 *Semester Long Course / 0.5 Credit*

✔️ *Prerequisite: Food Science, Culinary Fundamentals*

In this course, students will analyze personal physical, emotional, social and intellectual growth for a healthy lifestyle. An emphasis will be placed on lifespan wellness by managing stress through relaxation, physical activity and sleep. Additional topics will include human growth development, mental health management, personal hygiene and preparing for emergency medical situations.



**Questions  
about course  
registration or  
planning for  
your future?**

**Reach out to  
your Counselor!  
They can help you  
navigate your  
path through  
XHS and beyond.**



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[xhs.xeniaschools.org](https://xhs.xeniaschools.org)



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