



School Year 2025-26
Registration Guide
XENIA HIGH SCHOOL
303 Kinsey Road
Xenia, Ohio 45385

Dear Students and Parents,

The 2025-2026 Xenia High School Registration Guide is designed to inform you of the many academic options available to you for the upcoming school year. We hope that you find the booklet easy to use and understand. If you have any questions as you begin to plan for the 2025-2026 school year, please feel free to contact the Guidance Office.

It is the philosophy of Xenia High School that careful planning and preparation for one's course of study throughout all four years of high school is considered most important by the teaching staff and administration. Please use this booklet as a tool to help guide you through the process of course selection for high school.

We welcome the opportunity to answer any questions you may have concerning curriculum and/or the course of study at Xenia High School. You may contact the Guidance Office, Monday through Friday, between the hours of 7:10 a.m. and 2:40 p.m.

We look forward to a great year!

Mr. Matt Bartley

Assistant Principal

Mr. Todd Whalen

Principal

Mrs. Candice Patrick

Assistant Principal

Mr. Shawn Rudegeair

Guidance Counselor (A-G)

Mrs. Amy Biggs

Guidance Counselor (H-M)

Ms. Jasmine Tolbert

Guidance Counselor (N-Z)

Mr. Jay Meno

Assistant Principal

Mr. Nathan Kopp

Athletic Director

Important Phone Numbers:

Main Office : 372 - 6983

Guidance Office : 372 - 6983 Ext. 8400

Athletic Office : 374 - 4217

Attendance Office : 372 - 6983 Ext. 8410

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PHILOSOPHY OF EDUCATION FOR XENIA HIGH SCHOOL

The faculty and administration believe that it is the goal of Xenia High School to develop to the greatest extent possible the intellectual, social and physical potential of each of its students. Our curriculum offers many courses of varying scope and difficulty. We realize, furthermore, the necessity of providing a challenging learning environment, qualified faculty, and sufficient instructional resources and methods. Our curriculum emphasizes the mastery of basic educational skills and concepts, and in our students those qualities of maturity, independent thinking, and self-discipline that are important for both academic and personal success. By embracing and implementing this philosophy, our administrative, counseling, teaching and support staff can assist students in attaining the major goals of personal development, competence, and successful integration into adult society.

REGISTRATION POLICIES AND PROCEDURES

ENROLLING A STUDENT ONLINE

1. Fill out the Enrollment Packet available on Final Forms. [Click here to access Final Forms.](#)
Having trouble with Final Forms? [Click here for the instruction manual](#)
2. As you submit your forms online, you should be ready to upload copies* of the following documents to the file:
 - ☐ Certified student birth certificate, hospital birth record, or passport. *Certified birth certificates can be obtained through the public health department in the city or county where your child was born or by contacting the Office of Vital Statistics in the Ohio Department of Health.*
 - ☐ Photo identification of the parent/custodial parent/legal guardian. Photo identification **must be a driver's license or state-issued photo identification.**
 - ☐ Immunization Record - *The documentation must include immunizations your child has received or is in the process of receiving. [See the list of required immunizations.](#)*
 - ☐ Individualized education plan (IEP) - *If your child has an IEP from a previous school, please provide a copy at the time of enrollment.*
 - ☐ Proof of custody - *In the event of a legal separation or divorce, the parent who has legal custody must provide a complete copy of the court-ordered custody agreement that indicates the parent is the residential custodial parent of the child for school purposes. If the parent's last name is different from the student's, a copy of the marriage certificate or proof of name change must be submitted.*
 - ☐ Proof of residency - *Lease, Rent Receipt, Current Utility Bill, or Affidavit for proof of residency may be required.*
3. Additional items requested for student placement:
 - ☐ **For students entering 7th or 8th grade:** Copy of standardized testing scores and most recent report card.
 - ☐ **For students entering High School:** Copy of transcript and most recent test scores. This can also be uploaded through Final Forms. *(Note: After initial registration, you will need to make an appointment with a guidance counselor in order to create the student's schedule by contacting the high school at 937-372-6983).*

***DOCUMENT UPLOADS**

Note that all document uploads should be EITHER a scanned PDF file OR an image file. If you choose to submit an image of documents, cell phone photos are acceptable but should be clear, well-lit, and in focus. The requested document should be the primary focus of the photo; crop photos, if necessary. Keep in mind that unacceptable files may delay your student's registration; original copies may be requested as follow-up by our enrollment office for verification.

If you are having trouble uploading documents, be sure to email tnewsock@xeniaschools.org.

Tammy Newsock
EMIS Coordinator
Xenia Community Schools
tnewsock@xeniaschools.org
937-562-9022 office
937-372-4701 fax

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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.

Once we have completed the first five days of school, students will **NOT** be allowed to request schedule changes.

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GRADUATION REQUIREMENTS FOR HIGH SCHOOL STUDENTS GRADUATING IN 2026 AND BEYOND

As a student entering ninth grade on or after July 1, 2019, Ohio's [new high school graduation requirements](#) give you more flexibility to choose a graduation pathway that builds on your strengths and passions – one that ensures you are ready for your next steps and excited about the future.

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*.

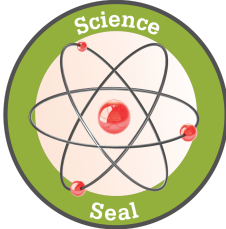
**All students must take the tests listed above one time, however a passing score is only needed in these courses.*

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

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.

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		Locally-Designed Seals
<u>OhioMeansJobs Readiness Seal</u> 	<u>Science Seal</u> 	<u>Community Service Seal</u> 
<u>Industry-Recognized Credential Seal</u> 	<u>Honors Diploma Seal</u> 	<u>Fine and Performing Arts Seal</u> 
<u>College-Ready Seal</u> 	<u>Seal of Biliteracy</u> 	<u>Student Engagement Seal</u> 
<u>Military Enlistment Seal</u> 	<u>Technology Seal</u> 	
<u>Citizenship Seal</u> 		

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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.

“Learning-Based” CFP

Learning-Based CFPs are those in which the student will be actively working to learn new content. At the conclusion of the experience, achievement of learning objectives must be demonstrated as defined by the approved CFP. These opportunities may include but not be limited to: independent study, private instruction, performing groups, internships, community service, apprenticeship, work-study, online courses, and testing out through End of Course State exams or AP exams.

“Traditional” CFP

The student creates a traditional CFP either alone or with the assistance of a teacher, mentor or some other assistant. Any costs that are associated with the CFP are the responsibility of the student and NOT the High School or the School District. Students can ask a staff member to guide or assist them during the course of the CFP, but ultimately it is the student who is fully responsible for the execution of the CFP. Any student interested in undertaking a CFP should contact their guidance counselor for an application.

Students wishing to attempt a CFP will be required to submit a detailed application for their CFP that includes:

- ☐ an outline of the learning goals and expectations of the CFP
- ☐ a description of the various assessments to be used to determine mastery of the goals outlined
- ☐ a timetable defining when various phases of the CFP will be completed
- ☐ a description of the final project, in which the student will demonstrate mastery of the concepts, knowledge, and skills learned

Your CFP is not valid until you have submitted it for approval to the District CFP committee for acceptance. Once the CFP is approved, you may begin work on it.

This plan must receive prior approval from the XHS Review Panel for their learning plan, stay within the agreed upon timetable, and at the conclusion, return to the XHS review Panel to present evidence showing how the objectives were met.

Applications for a CFP to be completed during the first semester must be submitted for review no later than the first day of school.

Applications for a CFP to be completed during the second semester must be submitted before the last day of the first semester.

Other Important CFP Guidance:

- CFPs can be used to earn **ONLY HIGH SCHOOL** credit; you cannot get college credit by completing a CFP
- A CFP can be worth more than one credit, and it can be worth credits in more than one area
- All CFP credits awarded count toward graduation
- Credits earned through a CFP show up on your transcript just like your other credits
- Once earned, CFP credits count as official credits if you leave the Xenia School District and attend another high school
- Once a plan is submitted and approved, it is a binding agreement, and failure to complete the plan will result in a withdrawal from the plan with a grade of “F”.

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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.

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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.*

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, 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.)

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ACADEMIC 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. 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.

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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 state honors diploma requirements here:

[Ohio Honors Diploma Requirements](#)

GRADUATES OF DISTINCTION (Class of 2026 Only)

Xenia High School recognizes graduating seniors who meet specific criteria with the Graduate of Distinction Award. To qualify as a Graduate of Distinction, a student must meet the following criteria during his or her eight semesters at Xenia High School:

- ☐ The student will have a Grade Point Average (GPA) of at least 4.25.
- ☐ The student's GPA will be in the top five percent (5%) of his or her graduating class.
- ☐ The student will have successfully completed no fewer than eleven (11) Honors Courses.
- ☐ The student will have successfully completed no fewer than three (3) Advanced Placement (AP) courses or equivalent CCP courses.
- ☐ The student will have no reported incidents of cheating, plagiarism or disciplinary incidents.

VALEDICTORIAN & SALUTATORIAN (Class of 2027 & Beyond)

Beginning with the Class of 2027, students will no longer receive the Graduate of Distinction Award. Instead, 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.

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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.

OHSAA eligibility to participate in ANY school-sponsored sport is based on the grading period immediately previous to the current grading period. In other words, your eligibility to participate on a team during the first grading period of the school year is based on the grades you earned in the final grading period of your previous school year. **ELIGIBILITY IS NOT DETERMINED BY SEMESTER GRADES OR FINAL GRADES – IT IS ONLY DETERMINED BY YOUR GRADING PERIOD GRADES.**

Summer School grades can NOT be substituted for school year grades.

If a student did not meet the State standards for eligibility, that student is ineligible to participate until s/he has successfully completed a grading period by passing at least five one-credit classes. At that time, the student would be eligible to participate.

For incoming freshmen, the OHSAA guideline requires that you must have passed at least four (4) classes during the fourth grading period of your eighth grade year. For incoming sophomores, juniors, and seniors, the OHSAA guideline requires that you have passed at least five (5) one credit courses in the previous high school grading period (Physical Education is not included).

Once the school year begins, the previous grading period's marks determine your eligibility in the current grading period.

The Xenia City Schools District also requires that all students wishing to participate on our sports teams must have a MINIMUM Grade Point Average (GPA) set by the Board of Education to be eligible to participate from the preceding quarter.

Each student at Xenia High School will be allotted a one-time exemption of the High School's GPA requirement. If a student meets the State standard of passing five classes, and has a minimum GPA of 1.50, but does not meet the District standard for GPA, a student may ask for permission to compete for one grading period using this exemption. If, at the end of the grading period, the student has still not met the District's GPA requirement, they will become ineligible and unable to compete in further events for the next grading period.

Every student at XHS will be given ONE – and ONLY ONE – academic exemption to use while they are enrolled at XHS. Once that exemption has been used, students MUST meet both the State and District rules to be eligible to participate in an extra-curricular sport.

These rules will be reviewed with students interested in participating in a sport and with their parents in a meeting with the Athletic Director prior to the start of each athletic season.

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XHS COURSE PLANNING

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 Must include at least: 1 Phys Science 1 Life Science	4.0 Credits	4.0 Credits (Must include 2 units of advanced science)	3.0 Credits Must include at least: 1 Phys Science 1 Life Science
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 Fine Arts + 2.0 Foreign Language	1.0 Fine Arts + 3.0 Foreign Language	1.0 credit (in any of the two areas)
Other	5.5 Credits in Electives Courses	Check specific college/university requirements	For additional requirements see Diploma with Honors Section	4.5 Credits in Elective Courses
Total Credits	21.0 Credits	21.0 Credits	21.0 Credits	21.0 Credits

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CAREER CLUSTERS AND 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 & 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.

Below you can find more information about Career Clusters and Pathways, as well as courses offered at XHS related to each career pathway.

Career Cluster	Description	Career Pathways	Related XHS Elective Courses
<u>Agriculture, Food & Natural Resources</u>	This Career Cluster focuses on the production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.	❖ Agribusiness Systems ❖ Animal Systems ❖ Environmental Service Systems ❖ Food Products and Processing Systems ❖ Natural Resources Systems ❖ Plant Systems ❖ Power, Structural, & Technical Systems	❖ Astronomy ❖ Meteorology ❖ Dangerous Earth ❖ Ecology & Biomes ❖ Pollution & Global Warming ❖ AG Courses
<u>Architecture & Construction</u>	This Career Cluster focuses on the designing, planning, managing, building and maintaining the built environment. Individuals in these careers work on buildings and other structures. This includes highways, bridges, houses, and buildings. They might create the designs or plans for new structures. Or, they might use the plans to build or manage the workers on the construction projects.	❖ Construction ❖ Design/ Pre-Construction ❖ Maintenance/ Operations	❖ AG Courses ❖ Business Courses
<u>Arts, Audio/Video Technology & Communications</u>	This Career Cluster focuses on the designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design,	❖ Journalism and Broadcasting ❖ Performing Arts ❖ Printing Technology	❖ Band ❖ Choir ❖ Piano ❖ Public Presentation ❖ Theater

	journalism, and entertainment services.	❖ Telecommunications ❖ Visual Arts	❖ Music Theory ❖ Foreign Languages ❖ Visual Art Classes ❖ Interactive Media Courses
<u>Business Management & Administration</u>	This Career Cluster focuses on the planning, organizing, directing and evaluating business functions essential to efficient and productive business operations.	❖ Administrative Support ❖ Business Information Management ❖ General Management ❖ Human Resources Management ❖ Operations Management	❖ Business courses ❖ Modern World ❖ Public Presentation ❖ Foreign Languages ❖ Personal Finance ❖ Economics
<u>Education & Training</u>	This Career Cluster focuses on the planning, managing and providing education and training services, and related learning support services.	❖ Administration and Administrative Support ❖ Professional Support Services ❖ Teaching/ Training	❖ Public Presentation ❖ Digital Media ❖ Psychology
<u>Finance</u>	This Career Cluster focuses on the planning, services for financial and investment planning, banking, insurance, and business financial management.	❖ Accounting ❖ Banking Services ❖ Business Finance ❖ Insurance ❖ Securities & Investments	❖ Economics ❖ The Modern World ❖ Business Foundations ❖ Financial Literacy
<u>Government & Public Administration</u>	This Career Cluster focuses on the planning and performing government functions at the local, state and federal levels, including governance, national security, foreign service, planning, revenue and taxation, and regulations.	❖ Governance ❖ National Security ❖ Planning ❖ Public Management and Administration ❖ Regulation ❖ Revenue and Taxation	❖ Business Foundations ❖ Economics ❖ Modern World ❖ Financial Literacy ❖ Public Presentation ❖ Foreign Languages ❖ Honors American Government ❖ AP American Government ❖ AP World History ❖ AP US History
<u>Health Science</u>	This Career Cluster focuses on the planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.	❖ Biotechnology Research and Development ❖ Diagnostic Services ❖ Health Informatics ❖ Support Services ❖ Therapeutic Services	❖ Anatomy & Physiology ❖ Chemistry ❖ AP Chemistry ❖ CCP Chemistry ❖ Biology ❖ CCP Biology ❖ Sports Nutrition ❖ Biomedical Science Courses
<u>Hospitality & Tourism</u>	This Career Cluster focuses on the management, marketing and operations of restaurants and other food services, lodging, attractions, recreation events and travel related	❖ Lodging ❖ Recreation, Amusements, & Attractions ❖ Restaurants and	❖ Culinary Tech ❖ Public Presentation ❖ Foreign Languages ❖ Economics ❖ The Modern World

	services.	❖ Food/Beverage Services ❖ Travel & Tourism	❖ Business Foundations
Human Services	This Career Cluster focuses on preparing individuals for employment in career pathways that relate to families and human needs such as counseling and mental health services, family and community services, personal care, and consumer services.	❖ Consumer Services ❖ Counseling & Mental Health Services ❖ Early Childhood Development & Services ❖ Family & Community Services ❖ Personal Care Services	❖ Public Presentation ❖ Foreign Languages ❖ Psychology ❖ Modern World
Information Technology	This Career Cluster focuses on building linkages in information technology occupations for entry level, technical and professional careers related to the design, development, support and management of hardware, software, multimedia and systems integration services.	❖ Information Support and Services ❖ Network Systems ❖ Programming and Software Development ❖ Web and Digital Communications	❖ Interactive Media Courses ❖ Cybersecurity
Law, Public Safety, Corrections & Security	This Career Cluster focuses on the planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.	❖ Correction Services ❖ Emergency and Fire Management Services ❖ Law Enforcement Services ❖ Legal Services ❖ Security & Protective Services	❖ Psychology ❖ The Modern World ❖ Foreign Languages ❖ Public Presentation
Manufacturing	This Career Cluster focuses on the planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.	❖ Maintenance, Installation & Repair ❖ Manufacturing Production Process Development ❖ Production ❖ Quality Assurance	❖ Intro to Engineering ❖ Principles of Engineering ❖ Agriculture classes ❖ Advanced Manufacturing
Marketing	This Career Cluster focuses on the planning, managing and performing marketing activities to reach organizational objectives.	❖ Marketing Communications ❖ Marketing Management ❖ Marketing Research ❖ Merchandising ❖ Professionals Sales	❖ Public Presentation ❖ Business Foundations ❖ Economics ❖ The Modern World
Science, Technology,	This Career Cluster focuses on the	❖ Engineering and	❖ Intro to Engineering

Engineering & Mathematics	planning, managing and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.	❖ Technology Science and Mathematics	❖ Principles of Engineering ❖ Advanced Manufacturing ❖ Advanced Math and Science Courses
Transportation, Distribution & Logistics	This Career Cluster focuses on the planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.	❖ Facility and Mobile Equipment Maintenance ❖ Logistics Planning and Management Services ❖ Sales and Service ❖ Transportation Operations ❖ Transportation Systems/Infrastructure Planning, Management & Regulation	❖ Intro to Engineering ❖ Economics ❖ The Modern World

Even though not all career fields require advanced levels of Math and Science, students are strongly encouraged to take 4 years of Math and Science.

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CAREER PATHWAY PLANNING

XHS Career Pathway Planning Worksheet

Name:

Career Pathway Goal:

	ELA	Math	Science	Social Studies	Health/ P.E.	Career Tech	Other	Other
Secondary Academic Planning								

7								
8								
9								
10								
11								
12								
Post-Secondary Academic Planning								
Year One Semester One								
Year One Semester Two								
Year Two Semester One								
Year Two Semester Two								

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COURSE OFFERINGS & DESCRIPTIONS

ENGLISH LANGUAGE ARTS

Graduation Requirements		
Course Credits Required	Required Courses	Required End of Course Exams

4.0 Credits	English 9, English 10, English 11, English 12 (Honors courses and/or AP Lang & Comp also meet requirements)	English 10* *Passing score required for graduation
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Ninth Grade Courses

0111 ** English 9 – Full Year 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 – Full Year Course / 1.0 Credit

> Students wishing to take this class must receive a recommendation from their eighth grade Language Arts teacher to be eligible for this class.

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.

Tenth Grade Courses

0112 ** English 10 – Full Year Course / 1.0 Credit

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 – Full Year Course / 1.0 Credit

> Students wishing to take this class must receive a recommendation from their ninth grade Language Arts teacher to be eligible for this class.

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.

Eleventh Grade Courses

1113 ** College Prep English 11 – Full Year 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 – Full Year Course / 1.0 Credit

> Students wishing to take this class must 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.

Twelfth 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 Class / 1.0 Credit

- > *Students wishing to take this class must have completed a minimum of two Honors English classes.*
- > *Students wishing to take this class must have completed Honors English 11 with a grade of “B” or higher.*
- > *Students wishing to take this class must receive a recommendation from their eleventh grade Language Arts teacher to be eligible for this class.*
- > *Students wishing to take this class 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 & Reading - 3.0 college semester hours and 1.0 high school credit.

- > *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 - 3.0 college semester hours and 1.0 high school credit.

- > *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

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

0144 ** Dystopian Literature I – Semester 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 Course / 0.5 Credit

>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 frankthe 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**

>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.

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MATHEMATICS

Graduation Requirements		
Course Credits Required	Required Courses	Required End of Course Exams
4.0 Credits	Algebra I, Geometry, Algebra II, Data Science, or Discrete Math , 4th Course	Algebra I* Geometry *Passing score required for graduation

Updated Math Pathways in Xenia Community Schools					
	8	9	10	11	12
College & Career Prep	8th Grade Math	Algebra I	Geometry	Options: Algebra II Algebra II - A Data Science Discrete Math	Options: Trig & Pre-Calc Data Science Discrete Math
College Prep - Honors	Advanced 8th Grade Math	Honors Algebra I	Honors Geometry	Options: Honors Algebra II	Options: Honors Trig & Pre-Calc Honors Prob & Stat AP Calculus
College Advanced Prep	Honors Algebra I	Honors Geometry	Honors Algebra II	Options: Honors Trig & Pre-Calc	Options: Honors Trigonometry AP Calculus

0403 ** Algebra I - Year Long Course / 1.0 Credit

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

0401 ** Honors Algebra I – Year Long Course / 1.0 Credit

> Students wishing to take this class must 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 the course. Passing the Algebra I OST is a graduation requirement.**

0422 ** Geometry – Year long Course / 1.0 Credit

> Students wishing to take this class must first 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. **Students will take the Ohio State Test for Geometry at the end of the course.**

0432 ** Honors Geometry – Year Long Course / 1.0 Credit

> Students wishing to take this class must first successfully complete Honors Algebra I and pass the Algebra I OST.

> Students wishing to take this class must have 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 the course.**

0413 ** Algebra II – Year Long Course / 1.0 Credit

> Students wishing to take this class must first 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

> Students wishing to take this class must have a recommendation from their 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 ** Honors Algebra II – Year Long Course / 1.0 Credit

> Students wishing to take this class must first successfully complete Honors Algebra I.

> Students wishing to take this class must have a recommendation from their Honors 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

> Students wishing to take this class must first successfully complete Algebra I or Honors Algebra I and have a recommendation from their 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. Although this course still is being developed, 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

> Students wishing to take this class must first successfully complete Algebra I or Honors Algebra I and have a recommendation from their 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

> Students wishing to take this class must first successfully complete Algebra I or Honors Algebra I and have a recommendation from their current Math teacher.

> This course is 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.

Advanced Math Courses

0444 ** Trigonometry & Advanced Math – Year Long Course / 1.0 Credit

> Students wishing to take this class must first successfully complete Algebra II or Honors Algebra II with a grade of a "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

> Students wishing to take this class must first successfully complete Honors Algebra II with a grade of a "C" or higher.

> Students wishing to take this class must have a recommendation from their Honors Algebra II 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 ** Advanced Placement Calculus – Year Long Course / 1.0 Credit

- > *Summer work will be required for students taking this course.*
- > *Students wishing to take this class must have a graphing calculator.*
- > *Students wishing to take this class must first successfully complete Honors Trigonometry & Pre-Calculus.*
- > *Students wishing to take this class must have a recommendation from their Honors Trigonometry & Pre-Calculus teacher.*
- > *Students wishing to take this class 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 - 4.0 college semester hours and 1.0 high school credit.

- > *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 1st 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 - 3.0 college semester hours and 1.0 high school credit.

- > *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 1st 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.

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SCIENCE

Graduation Requirements		
Course Credits Required	Required Courses	Required End of Course Exams
3.0 Credits	Biology 1 Physical Science Course 1 Advanced Science Course	Biology

0513 ** Spectra of Science – Year Long Course / 1.0 Credit

> *This course 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

> *This course fulfills the Physical Science credit requirement.*

> *Students wishing to take this class will be required to prepare and present a Science Fair Project during the third grading period.*

> *Students wishing to take this class must receive a recommendation from their eighth grade Science teacher to be eligible for this class.*

> *Students wishing to take this class must have completed or be enrolled in Honors Algebra I to be eligible for this class.*

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

- > *This course fulfills the Life Science credit requirement.*
- > *Students wishing to take this class must have completed Spectra of Science or Honors Spectra of Science to be eligible for this class.*

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

- > *This course fulfills the Life Science credit requirement.*
- > *Students wishing to take this class must have completed Honors Spectra of Science with a course grade of “B” or higher to be eligible for this class.*
- > *Students wishing to take this class must receive a recommendation from their Honors Spectra of Science teacher to be eligible for this class.*

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

- > *Students wishing to take this class 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

> Students wishing to take this class must have successfully completed two math credits, or be enrolled in 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 – Full Year Course / 1.0 Credit

> Students wishing to take this class 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 Class / 1.0 Credit

> Students wishing to take this class 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 Class / 1.0 Credit

> Students wishing to take this class must have successfully completed a Biology class and a Chemistry class.

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 Class / 1.0 Credit

> Students wishing to take this class must have successfully completed a Biology class and a Chemistry class.

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

> Students wishing to take this class must complete summer class work. Students who do not complete this work will be removed from this class.

> Students wishing to take this class must have successfully completed Honors Chemistry.

> Students wishing to take this class must be recommended for this class by a High School teacher.

> ALL students who take this class will be required to pay for and take the Advanced Placement exam in May. Cost of the exam 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.

CHM 1210 ** General Chemistry I – semester / 5.0 college semester hours and 1.0 high school credit.

> 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 wishing to take this course must have successfully completed Honors Chemistry.

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.

CHM 1220 ** General Chemistry II– semester/ 5.0 college semester hours and 1.0 high school credit.

- > 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 wishing to take this course must have successfully completed Honors Chemistry.*
- > Student wishing to take this course must have successfully completed General Chemistry I with a grade of “C” or better.*

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.

BIO 1111 ** General Biology I– semester/ 4.0 college semester hours and 1.0 high school credit.

- > 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.

BIO 1211 ** General Biology II - semester/ 4.0 college semester hours and 1.0 high school credit.

- > This CCP class is offered through Sinclair Community College. Students need to meet the requirements of Sinclair Community College to enroll in this class.*
- > Student wishing to take this course must have successfully completed General Biology I with a grade of “C” or better.*

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 & Biomes – Semester Class / 0.5 Credit

- >This course is 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 Class / 0.5 Credit

>This course is 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 Class / 0.5 Credit

> This course is 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 Class / 0.5 Credit

>This course is 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 Class / 0.5 Credit

> This class is offered 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

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SOCIAL STUDIES

Graduation Requirements		
Course Credits Required	Required Courses	Required End of Course Exams
3.0 Credits	1 Credit U.S. History 1 Credit American Government 1 Credit World History and Civilizations	US History American Government

0310 ** United States History – Full Year Course / 1.0 Credit

> *This course 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 US History at the end of the course.**

0311 ** Honors United States History – Full Year Course / 1.0 Credit

> *This course fulfills the US History credit requirement.*

> *Students wishing to take this class must receive a recommendation from their eighth grade Social Studies teacher to be eligible for this class.*

> *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 Honors History and being placed in another US 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 US History at the end of the course.**

0312 ** World History – Full Year Course / 1.0 Credit

> *This course 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 – Full Year Course / 1.0 Credit

- > *This course fulfills the World History and Civilizations credit requirement.*
- > *Students wishing to take this class must receive a recommendation from their ninth grade U.S. History teacher to be eligible for this 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. 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 Honors World History and being placed in another World History class.

0334 ** American Government – Full Year Course / 1.0 Credit

- > *This course 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.**

0335 ** Honors American Government – Full Year Course / 1.0 Credit

- > > *This course fulfills the American Government credit requirement.*

This class fulfills the XHS US government graduation requirement and financial literacy requirements for students in the graduation class of 2023, 2024, or 2025. 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. 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 will take the Ohio State Test for American Government at the end of the course.**

AP & CCP Social Studies Courses

0322 ** Advanced Placement United States History – Full Year Course / 1.0 Credit

- > *This course fulfills the US History credit requirement.*
- > *ALL students who take this class will be required to pay for and take the Advanced Placement exam in May. Cost of the exam 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. 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.

0313 ** Advanced Placement World History – Full Year Course / 1.0 Credit

- > *This course fulfills the World History and Civilizations credit requirement.*
- > *Students wishing to take this class must receive a recommendation from their ninth grade US History teacher or their tenth grade World History teacher to be eligible for this class.*
- > *ALL students who take this class will be required to pay for and take the Advanced Placement exam in May. Cost of the exam 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.

0333 ** AP United States Government and Politics – Full Year Course / 1.0 Credit

- > *This course fulfills the American Government credit requirement.*
- > *Students wishing to take this class must receive a recommendation from their US History teacher or their World History teacher to be eligible for this class.*

- > *ALL students who take this class will be required to pay for and take the Advanced Placement exam in May. Cost of the exam is approximately \$100.*
- > *This class is only open to juniors and seniors.*

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. 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.

0355 ** Advanced Placement Human Geography – Full Year Course / 1.0 Credit

- > *ALL students who take this class will be required to pay for and take the Advanced Placement exam in May. Cost of the exam 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.

PSY 1100 ** General Psychology- semester/ 3.0 college semester hours and 1.0 high school credit.

- > *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 Course / 0.5 Credit

- > *This class is only open to sophomores, juniors and seniors.*

This class fulfills the XHS financial literacy requirement. 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 Course / 0.5 Credit

> This class is only open to sophomores, juniors, and seniors.

This class 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 Class / 0.5 Credit

> This class is only 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 Course / 0.5 Credit

> This class is only 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

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FINANCIAL LITERACY

Graduation Requirements - Class of 2026 and beyond	
Course Credits Required	Required Courses
0.5 Credits	Financial Literacy

0672 ** Financial Literacy – Semester Long Course / 0.5 Credit

> *This course fulfills the financial literacy requirement.*

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.

PHYSICAL EDUCATION AND HEALTH

Graduation Requirements	
Course Credits Required	Required Courses
1 Credits	0.5 Physical Education (two semesters) 0.5 Health

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

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 through participation in athletics, band or cheerleading, students must meet the following conditions:

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

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

2. 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 2 weeks after the end of the season.***

0601 ** Boys Physical Education – Semester Long Course / .25 Credit

0601A ** Girls Physical Education – Semester Long Course / .25 Credit

> Students are required to 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.

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.

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XHS ELECTIVE COURSE OFFERINGS & DESCRIPTIONS

FOREIGN LANGUAGES

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 – Full Year Course / 1.0 Credit

> Students wishing to take this class must receive a recommendation from their current Language Arts teacher to be eligible for this class.

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.

0232 ** Spanish II – Full Year Course / 1.0 Credit

> Students wishing to take this class must have successfully completed Spanish I with a grade of “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 III – Full Year Course / 1.0 Credit

> Students wishing to take this class must have successfully completed Spanish II with a grade of “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.

0234 ** Honors Spanish IV – Full Year Course / 1.0 Credit

> Students wishing to take this class must have successfully completed Spanish III with a grade of “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.

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FINE ARTS

Visual Art Courses

0909 ** Art Fundamentals A – Semester Long Class / 0.5 Credit

0900 ** Art Fundamentals B – Semester Long Class / 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

> Students wishing to take this course must have successfully completed 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

> Students wishing to take this course must have successfully completed 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

> Students wishing to take this course must have successfully completed 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 I – Semester Long Course / 0.5 Credit

> Students wishing to take this course must have successfully completed 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

> Students wishing to take this course must have successfully completed 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

> Students wishing to take this course must have successfully completed 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

> Students wishing to take this course must have successfully completed 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

> Students wishing to take this course must have successfully completed 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: Surrealism Unleashed – Semester Long Course / 0.5 Credit**

> Students wishing to take this course must have successfully completed 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

> Students wishing to take this course must have successfully completed 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

> Students wishing to take this course must have successfully completed 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.

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Performance 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

> Students wishing to take this course must have successfully completed 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 Class / 1.0 Credit

> Students wishing to take this course must have successfully completed 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 Class / 1.0 Credit

> Students wishing to take this course must have successfully completed 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.

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Music

0933 ** Vocal Ensemble – Year Long Course / 1.0 Credit

> Students wishing to take this course must pass an audition in May of the previous school year in order to take this course.

> Students accepted in this course will be required to attend after school performances, which will be a part of the student's class grade.

> Students accepted in this course will be measured to order their ensemble attire. Once measured & items ordered they 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.

Open only to incoming sophomores, juniors, and seniors by audition and recommendation of the instructor. Auditions take place in May of the previous school year. Advanced music in both sacred and secular genres is studied, extending into major works and foreign languages as chosen by the director. Techniques/experience in voice production, breathing, & sight-reading are expected. Dancing skills are also expected for show-choir based performances throughout the year.

0982 ** Concert Choir – Year Long Course / 1.0 Credit

> Students accepted in this course will be required to attend after school performances, which will be a part of the student's class grade.

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.

0993 ** Piano I – Semester Long Course / 0.5 Credit

This semester course is designed for students who wish to gain basic fundamentals of piano playing. Basic music reading skills are recommended, but not necessary.

0994 ** Piano II – Semester Long Course / 0.5 Credit

> Students wishing to take this course must have successfully completed Piano I.

This class will provide continued and advanced instruction in the fundamentals of piano playing and music literacy.

0995 ** Piano III - Semester Long Course/ 0.5 Credit

> Open to students grades 10, 11 and 12

> Students wishing to take this course must have successfully completed Piano II.

> Students enrolled in Class Piano III are suggested to audition for the XHS Jazz Band on Piano.

This class will provide continued and advanced instruction in the fundamentals of piano playing and music literacy.

0996 ** Piano IV - Semester Long Course/ 0.5 Credit

> Open to students grades 11 and 12

> Students wishing to take this course must have successfully completed Piano III.

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

Reserved for the most advanced piano students that are proficient in both sight-reading and piano performance who have either completed Class Piano I, II and III or who have sought the approval of and auditioned for the instructor.

0952 ** Symphonic Band – Year Long Course / 1.0 Credit

> Students wishing to take this course must have successfully completed an audition for the instructor –OR—have the instructor's permission to participate.

> Students who take this class MUST participate in fundraising projects AND attend performances outside of the regular school day.

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 adjudicate event each winter. The Symphonic Band performs at 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 Symphonic Band or Concert Band have the option of participating in the XHS Marching Band, Jazz Band and Pep Band. Participation in annual fundraising projects is expected. Attendance at concerts is REQUIRED.

0962 ** Concert Band – Year Long Course / 1.0 Credit

> Students wishing to participate in this class must have successfully completed 8th Grade Band or by successfully auditioning for the instructor. Open to grades 9, 10, 11 and 12

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 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. Participation in annual fundraising projects is expected attendance at concerts is REQUIRED.

0975 ** History of Jazz, Rock & Roll – Semester Long Class / 0.5 Credit

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. It will assist the student in developing an appreciation for all forms of music and the historic roots of these musical styles. It will acquaint the students with prominent performers, composers, and compositions of each period. No prior music experience is necessary.

0922 ** Music Theory I – Semester Long Course / 0.5 Credit

Music Theory 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 down 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 and expression, and responsibility. Students wishing to study music at a collegiate level are highly encouraged to enroll in this course.

0923 ** Music Theory II – Semester Long Course / 0.5 Credit

> Students wishing to take this course must have successfully completed Music Theory I.

Music Theory II is intended for students who enjoyed Music Theory I and 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. This is a course in music theory designed to reinforce foundational music theory concepts and introduce higher-level musical language and grammar insights and skills. New topics will be explored.

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AFTER SCHOOL FINE ARTS ACTIVITIES

Vocal Ensemble

> There is a financial cost associated with this activity.

A performance group open to outstanding vocalists in the Vocal Music Department. Maximum number of students will be determined by the director, and admission is by audition consisting of excellence in sight-reading and good voice management. The group's repertoire will include a variety

of genres, including both sacred and secular choral classics, modern choral favorites, pop and Broadway tunes, and more. Performances will include both acapella and accompanied works. Participating students must be scheduled for credit in the Vocal Ensemble. Students are required to purchase and care for their outfits (dress/suit) and shoes throughout the school year.

Marching Band

> There is a financial cost associated with this activity.

The XHS Marching Band performs at all football games as well as select festivals, parades, and concerts. Band camp is held in the last week of July and the 2nd week in August. Additional rehearsals may be required in mid-July as well. Specific rehearsal schedules will be announced by the director in early spring via the BAND App and paper handouts. When the school year begins, the Marching Band will rehearse daily after school on select days announced in advance by the director. Auditions for drumline, color guard, and student leaders will occur in spring. There is a participation fee of approximately \$200. Fundraising opportunities are provided for students to alleviate the cost. Students must be enrolled in either Concert Band or Symphonic Band to participate.

Marching Band: Xenia Fall Guard

> There is a financial cost associated with this activity.

This is an Auxiliary group that is a part of the Fall Marching Band. This group spins flags, rifles, hoops and dances as a part of the marching band show. This is open to 8th - 12th graders and the only prerequisite is to attend the Guard Clinic. This is usually held in June and no experience is necessary. This Auxiliary unit performs with the marching band at Xenia games, parades and festivals. Fees are decided by the Band Boosters each year depending on the size and needs for that season.

Pep Band

> There is a financial cost associated with this activity.

Pep Band is open to all band students in grades 9 -12 as well as select 8th grade instrumentalists. Pep Band performs at all home varsity boy's basketball games. Pep Band members are required to purchase a uniform shirt of approximately \$15.00. Students must be enrolled in either 8th Grade Band, Concert Band or Symphonic Band to participate.

Small Instrumental Ensemble

> Open only to students enrolled in Concert Band or Symphonic Band.

Trios, Quartets, Quintets, etc., are formed on the basis of interest. Instruments are combined in groups according to the Ohio Music Educators Association specification. Symphonic Band members are highly encouraged to participate. See director for more information.

Jazz Ensemble

- > *Open only to students that play a wind instrument that are enrolled in Concert Band or Symphonic Band 9-12 who successfully audition for the Ensemble*
- > *Also open to all XHS students who have experience playing guitar, bass guitar, piano and drums (do not need to be enrolled in a band class)*
- > *8th Grade instrumentalists may audition (must be enrolled in 8th grade band)*

This is a selected group which will perform at various community functions and concerts. Auditions will be held during the fall. Rehearsals will be held three times weekly after school.

Winter Guard

- > *There is a fee associated with this activity*

This is a competitive Winter based Auxiliary group that spins flags/rifles to recorded music inside for the purpose of competition in the Mid-East Performance Association circuit. This group is open to 8th-12th graders and one must attend a Try-out Clinic to participate. The fees range from \$150-\$200 depending on the show theme. The fees cover costumes, make-up, new equipment and props

Winter Guard Director - Ms. Monique Satchell - (937) 604-8152 or moniquesatchell@yahoo.com

Winter Indoor Percussion

- > *There is a fee associated with this activity*

Xenia Winter Indoor Percussion Ensemble is open to band students in 7th-12th grade. Indoor percussion uses the battery section and front ensemble as it's only musical instruments. It is a mixture of music and theater put into one. Xenia Indoor Percussion Ensemble competes in the Mid East Performance Association. The season lasts from early November till late March. Competition season begins early February and competitions are held within the Dayton, Ohio area. Season fees will range from \$100-\$125 depending on the needs for each season.

Fall Play

During the Fall Semester in a regular calendar year, the Theater Department will produce a mainstage play. Auditions are open to the entire student body and an audition time slot must be reserved by students before auditions are held. Once cast, rehearsals and stage production will proceed after school for approximately 8 weeks, with the schedule to be determined by directors at the beginning of the audition rehearsal process. The production is then performed multiple times, with tickets available for sale to the public. Students not cast in the show are also encouraged to participate in the volunteer-based stage crew to assist with creation of props and sets, costumes and makeup as needed, running the technological aspects of the show, and ushering. Parent support is also highly encouraged. After the completion of the show, the cast and crew are also required to tear down and clean the production to prepare the space for future scheduled events. Participation in Theater Tech Club is not a requirement to assist with the stage crew.

Spring Musical

During the Spring Semester in a regular calendar year, the Theater Department will produce a mainstage musical, which features acting, singing, and dancing of various styles based on the chosen musical. Auditions are open to the entire student body and an audition time slot must be reserved by students before auditions are held. Once cast, rehearsals and stage production will proceed after school for approximately 8 weeks, with the schedule to be determined by directors at the beginning of the audition rehearsal process. The production is then performed multiple times, with tickets available for sale to the public. Students not cast in the show are also encouraged to participate in the volunteer-based stage crew to assist with creation of props and sets, costumes and makeup as needed, running the technological aspects of the show, and ushering. Parent support is also highly encouraged. After the completion of the show, the cast and crew are also required to tear down and clean the production to prepare the space for future scheduled events. Participation in Theater Tech Club is not a requirement to assist with the stage crew.

Theater Tech Apprenticeship

The Theater Tech Apprenticeship will be offered for students interested in operating sound and lighting equipment in the Bob Hope Auditorium and beyond. A voluntary club, students will be introduced and trained on how to use the new A/V technology installed in the auditorium, especially the Midas M32 sound board and ION Lighting control board installed in the Tech Booth. Students who can demonstrate responsible use of the equipment will then be offered opportunities to assist the school with events requiring that technology, including but not limited to: the Fall Play, the Spring Musical, music concerts, assemblies, and other school-sponsored events. This club will meet once a week or more as needed to train students on the correct use of these technologies.

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FAMILY AND CONSUMER SCIENCES

o68o ** 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.

o681 ** Culinary Fundamentals – Semester Long Course / 0.5 Credit

> Students wishing to take this class must have successfully completed 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.

o682 ** Principles of Nutrition and Wellness – Semester Long Course / 0.5 Credit

> Students wishing to take this class must have successfully completed Food Science and 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.

o683 ** Personal Wellness – Semester Long Course / 0.5 Credit

> Students wishing to take this class must have successfully completed Food Science and 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.

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CAREER PATHWAYS

> Students wishing to enroll in any of these classes must join the corresponding organizations and pay that organization's annual membership fee of \$30.00. (BPA, CTSO, DECA, FFA & HOSA) These fees will be collected by XHS.

Agricultural Education

Career-technical programs in animal and crop production, agricultural services and engineering, food processing, horticulture, natural resource management, environmental services, agricultural and environmental education, communications and research.

o886 ** Intro to Agriculture – Semester Long Course / 0.5 Credits

> *Students wishing to enroll in this class must join the National FFA Organization and pay that organization's annual membership fee of \$30.00.*

> *This course is 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.

o883 ** Animal and Plant Science – Year Long Course / 1.25 Credits

> *Students wishing to enroll in this class must join the National FFA Organization and pay that organization's annual membership fee of \$30.00*

> *This class will be offered only to juniors and seniors.*

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.

o888 ** Home and Farm Repair - Year long Course / 1.25 Credit

> *Students wishing to enroll in this class must join the National FFA Organization and pay that organization's annual membership fee of \$30.00*

> *This class will be offered only to juniors and seniors.*

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.

o885 ** Outdoor Power Technology and Work Based Learning - Year long Course / 1.25 Credit

- > *Students wishing to enroll in this class must join the National FFA Organization and pay that organization's annual membership fee of \$30.00*
- > *Students wishing to take this class must have successfully completed Food and Plant Science and Home and Farm Repair.*
- > **This class will be offered only to seniors.*

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.

o887 ** Ag Business – Year Long Course / 1.25 Credit

- > *Students wishing to enroll in this class must join the National FFA Organization and pay that organization's annual membership fee of \$30.00*
- > *Students wishing to take this class must have successfully completed Food and Plant Science and Home and Farm Repair.*
- > *This class will be offered only to seniors.*

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.

What is the National FFA Organization?

FFA is a dynamic youth organization that changes lives and prepares members for premier leadership, personal growth and career success through agricultural education. FFA develops members' potential and helps them discover their talent through hands-on experiences, which give members the tools to achieve real-world success. Members are future chemists, veterinarians, government officials, entrepreneurs, bankers, international business leaders, teachers and premier professionals in many career fields. FFA is an intracurricular student organization for those interested in agriculture and leadership. It is one of the three components of agricultural education.

The official name of the organization is the National FFA Organization. The letters “FFA” stand for Future Farmers of America. These letters are a part of our history and our heritage that will never change.

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PLTW Biomedical Science

Whether discovering new cancer treatments or teaching healthy lifestyle choices to their communities, today’s biomedical science professionals are tackling big challenges to make the world a better place.

There is a \$30 class fee per class, payable to XHS, for all students enrolled in the program. This fee covers international, state and local membership dues for HOSA.

PLTW Biomedical Science students are taking on these same real-world challenges – and they are doing it before they even graduate from high school. Working with the same tools used by professionals in hospitals and labs, students engage in compelling, hands-on activities and work together to find solutions to problems. Students take from the courses in-demand knowledge and skills they will use in high school and for the rest of their lives, on any career path they take.

By immersing students in activities like practicing suturing and constructing body structures from clay, PLTW Biomedical Science empowers students to build knowledge and skills in biomedical science, as well as in-demand, transportable skills like problem solving, critical and creative thinking, communication, and collaboration. Biomedical students are eligible for a \$3000 scholarship to Sinclair if they maintain a 2.25 GPA or higher and complete the pathway.

All students in this program must participate and will be enrolled in the Career and Technical Student Organization (CTSO), HOSA future health professionals. HOSA is a co-curricular student organization that supplements the curriculum with competitive events, service projects, and social events.

0557 ** Principles of Biomedical Science (PBS) – Semester Long Course / 0.5 Credit

> Students wishing to take this class must have completed Algebra I - OR - be enrolled in Algebra I to be eligible for this class.

> This course is 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 ** Honors Human Body Systems (HBS) – Year Long Course / 1.0 Credit

> This class will be offered only to juniors and seniors.

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.

0559 ** Honors Biomedical Innovations – Year Long Course / 1.0 Credit

> Students wishing to take this class must have completed Human Body Systems and Medical Interventions.

> This class will be offered only to seniors.

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.

0560 ** Honors Medical Interventions - Year Long Course / 1.0 Credit

> Students wishing to take this class must have completed Principles of Biomedical Science, Human Body Systems, and Medical Interventions.

> This class will be offered only to juniors and seniors.

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.

0561 ** Biomedical Science Capstone - Year Long Course / 1.0 Credit

> This class will be offered only to seniors.

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.

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Business and Marketing

Technical and professional level careers in business management, administrative support, human resources, business administration, legal management and medical management. There is a \$30 CTSO fee (Career Technical Student Organization) course fee for all students. The fee will be collected by the XHS for these courses.

0711 ** Business Foundations – Semester Long Course / 0.5 Credit

Business Foundations is the recommended first course in the Business and Administrative Services, Finance, Logistics and Supply Chain Management and Marketing Career Field pathways. 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

> Students wishing to take this class 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

> Students wishing to take this class must have completed Business Foundations and Marketing Principles.

> Students wishing to take this class must be a junior or senior.

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.

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Advanced Manufacturing & Design

In partnership with the Greene County Career Center, Career Technical courses such as Advanced Manufacturing & Design offer a variety of college credit, industry credentials, and scholarship options. Each course has a potential post-secondary component including bi-lateral agreements with local universities for transferred credit, transferable credit similar to College Credit Plus called CTAG, industry credentials such as AutoCAD, and Advanced Placement. Engineering students are automatically enrolled in a program that provides a \$3000 scholarship to Sinclair and Clark State. Project Lead the Way is a sequence of courses which, when combined with traditional mathematics and science courses in high school, introduces students to the scope, rigor, and discipline of engineering prior to entering college. XHS has received National accreditation providing students with multiple college credit opportunities. They will also have the opportunity to compete in regional and national competitions through the Technical Student Association (TSA). There are no fees associated with this program.

- There is a \$30 CTSO fee (Career Technical Student Organization) course fee for all students. The fee will be collected by XHS for these courses.

0850 ** Introduction to Engineering Design – Semester Long Course / 0.5 Credit

> This course is 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 – Year Long Course / 1.0 Credit

> This course is available to Juniors and Seniors.

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 – Year Long Course / 1.0 Credit

*> Students must have completed Principles of Engineering and Manufacturing Operations.
> This course is available to Seniors.*

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.

o854 ** Manufacturing Operations - Year Long Course / 1.0 Credit

> *This course is available to Juniors and Seniors.*

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.

o856 ** Advanced Manufacturing and Design Capstone– Year Long Course / 1.0 Credit

> *Students must have completed Principles of Engineering and Manufacturing Operations.*

> *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.

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Interactive Media

OVERVIEW: The revamped interactive media program will now focus entirely on creative and professional media production. Students will dive into graphic design, printing, and publishing, alongside producing commercial and narrative short films, podcasts, and edited videos. To capture student attention and interest, each class will be advertised as steps that fully build on each other and should not be taken out of order. There is a \$30 CTSO fee (Career Technical Student Organization) course fee for all students. The fee will be collected by the XHS for these courses.

o705 ** Introduction to Information Technology – Semester Long Course / 0.5 Credit

> *This course is open to 9th & 10th grade students ONLY.*

This class introduces students to all of the areas 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
- Digital Graphics
- Printing

0706 ** Creating and Editing Digital Images - Year Long Course / 1.0 Credit

> *This course is open to juniors and seniors.*

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:

- Photo
- Digital Graphics
- Printing

0709 ** Audio Video Production – Year Long Course / 1.0 Credit

> *This course is open to juniors and seniors.*

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 - Year Long Course / 1.0 Credit

> *Students wishing to take this class must have completed Creating and Editing Digital Images and Video and Sound.*

> *This course is open to seniors.*

In this class, students will learn the art of editing mainly through completing the media that they started in Video and Sound. They will learn how to add effects, titles, and color grade their films, as

well as orchestrating a rollout of their films to social platforms, physical media, and digital formats. In conjunction, they will create podcasts and BuxTV on a regulated schedule.

Experiences:

- Editing
- Visual Effects
- Podcasting
- TV Production
- Marketing and Rollout

0726 ** Interactive Media Capstone - Year Long Course / 1.0 Credit

> *Students wishing to take this class must have completed Creating and Editing Digital Images and Video and Sound.*

> *This course is open to seniors.*

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
- News Production
- Work-Based Learning
- Merch creation
- Live Streaming

Allied Health

There is a \$30 CTSO fee (Career Technical Student Organization) course fee for all students. The fee will be collected by the XHS for these courses.

0570 ** Health Science and Technology – Semester 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 – Semester Long Course / 0.5 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.

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Junior Reserve Officer Training Classes (JROTC)

0696 - 0699 ** Air Force Junior Reserve Officer Training Class (JROTC) – Year Long Class / 1.0 Credit

NOTE: There is a \$30 fee associated with this class.

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: These are blended courses comprising Aerospace Science and Leadership Education: **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. 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.

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. 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

Prerequisites: All cadets enrolled in this course 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 hairstyles for females. Students must also be willing to actively participate in one physical training (workout) session per week.

******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.

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 in order to participate.

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SPECIAL COURSES

Xenia High School offers several unique courses for students to take, based on a student's individual situation and needs.

Student Council

0013 ** Leadership Development- Full Year Course / 1.0 Credit

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

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.

Intro to the College Application Process

0016 ** Intro to the College Application Process - Semester Course / 0.5 Credit

This 1st semester course is open to Seniors who would like to better understand the college admission process and complete their college applications as part of the class. The course will be a blended course with both lecture and project-based learning components. Two days a week will be devoted to learning and three days a week will be given to students to work on college applications and course projects. Offered 1st semester only.

Introduction to Cybersecurity

0718 ** Introduction to Cybersecurity - Semester Course / 0.5 Credit

This first course in the IT/Cybersecurity career field is designed to provide students with a working knowledge of computer concepts and essential skills necessary for work and communication in today's society. Students will learn safety, security, and ethical issues in computing and social networking. Students will also learn about input/output systems, computer hardware and operating systems, and office applications.

Officiating

0625 ** Officiating – Semester Course / 0.5 Credit

> Students should take this course the semester before the season of the sport they plan on officiating begins.

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.

Yearbook

0730 ** Yearbook – Full Year 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.

English & Math Labs

**** English/Math Lab – Semester Course / 0.5 Credit**

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.

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.

Early Release & Late Arrival Option

**** Senior Early Release/Late Arrival – Semester Course / NO CREDIT**

Seniors who are eligible to graduate may choose this class 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.

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