

BOARDMAN HIGH SCHOOL

2024 • 2025



COURSE DESCRIPTION HANDBOOK

Revised 1.2024

BOARDMAN HIGH SCHOOL COURSE DESCRIPTION HANDBOOK

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The Boardman High School course offerings are in compliance with the policy of non-discrimination in educational opportunities or activities for students. This policy, adopted by the Boardman Board of Education, is in compliance with Title IX of the Education Amendments of 1972.

THE CURRICULUM

The Boardman High School curriculum is designed to meet the needs of all students. Accordingly, the school may offer, in addition to its regular program, a limited summer school program.

COUNSELING DEPARTMENT

Each student is assigned a school counselor for four years. The school counselor is available for conference with the students/parents regarding educational and career planning as well as social-emotional issues. Students are assigned to school counselors according to the first letter of their last name. However, if at any time students wish to see a school counselor other than the one assigned, they may do so.

School counselors are:

William Orr
(A - D)

Daniel Ewing
(E - K)

Richard Smrek
(L - Q)

Shana Craig-Yardas
(R - Z)

Gina Crilley
(Student Support Counselor)

CREDIT REQUIREMENTS FOR A BOARDMAN HIGH SCHOOL DIPLOMA

The following credits are needed to meet state graduation requirements. A student must schedule, at a minimum, the equivalent of five credits per semester including fifth year students. In addition to the credit requirement, each candidate for a diploma must complete all State of Ohio requirements listed below:

I. CREDIT REQUIREMENTS FOR CLASS OF 2023 AND BEYOND:

- English Language Arts 4 credits
- Mathematics 4 credits
- Social Studies 3 credits which must include:
 - World History 1 credit
 - US History 1 credit
 - American Government 1 credit
- Science 3 credits which must include:
 - Physical Science 1 credit
 - Biological Science 1 credit
- Health ½ credit
- Physical Education ½ credit
- Fine Arts 1 credit
- Electives 4 additional credits which must include:
One or any combination of world language, fine arts, business, career-technical education, family and consumer sciences, technology, agricultural education or English language arts, mathematics, science or social studies courses not otherwise required.

* For students who enter ninth grade for the first time on or after July 1, 2022, the state of Ohio requires ½ credit of Financial Literacy be taken.

** Students following a career-technical pathway through the MCCTC are exempted from the fine arts requirement.

II. COMPETENCY:

Option 1: Students must earn a passing competency score on Ohio's Algebra I and English II end of course (EOC) test. The competency score is 684 or above. Students who do not pass the test will be offered additional support and must retake the test at least once. If after taking the tests a student does not show competency, there are three additional ways to show competency:

Option 2: Students must demonstrate competency by Career Readiness through two career-focused activities, at least one must be a foundational option.

FOUNDATIONAL:

- Proficient scores on WebXams
- A 12-point industry credential
- A pre-apprenticeship or acceptance into an approved apprenticeship program
- State-issued license for practice in a vocation

SUPPORTING:

- Work-based learning
- Earn the required score on the WorkKeys
- Earn the Ohio Means Jobs Readiness Seal

Option 3: Students must demonstrate competency through the College Credit Plus by earning a non-remedial math or English course for the subject area not passed.

Option 4: Students must demonstrate competency through military enlistment and provide evidence of enlistment in a branch of the armed forces.

Option 5: Students must obtain a remediation-free score in the math and/or English subject area on the ACT or SAT.

III. READINESS:

Students must earn two diploma seals, choosing those that line up with their goals and interests. In alignment with their graduation plan, students should choose seals that align with their goals and interests. These seals give the student the chance to demonstrate academic, technical, and professional skills and knowledge that align to your passions, interests, and planned next steps after high school.

At least **ONE** must be Ohio-designed:

STATE OF OHIO DESIGNED SEALS

Military Enlistment Seal:

- Provide evidence that a student has enlisted in a branch of the U.S. Armed Forces, or
- Participate in an approved JROTC program.

Technology Seal:

- Earn a score that is at least equivalent to proficient or higher on an appropriate Advanced Placement; or
- Earn a final course grade that is equivalent to a "B" or higher in an appropriate class taken through the College Credit Plus program; or
- Complete one credit (2 semesters) of the following courses offered through the school that meets guidelines developed by the Business/Technology Department. These classes include: Video Game & Computer Programming, Social Media Coding & Concepts, Engineering & 3D Printing, AP Computer Science Principles (full Technology seal).

Industry-Recognized Credential Seal:

- Earn an approved industry-recognized credential that is aligned to a job considered in demand in this state and its regions.
- Typically, Boardman High School students will earn this seal through attending MCCTC and satisfactorily completing their program and passing appropriate exams.
- Boardman High School does offer MS Office Specialist which will allow students to earn this seal by satisfactorily completing the course and passing appropriate exams.
- Boardman High School does offer an opportunity for students to complete coursework through the Industrial Technology Department toward a Pre-Apprenticeship in Carpentry.

Citizenship Seal:

- Earn a score of proficient or higher on both the American History and American Government end-of-course exams; or
- Earn a score that is at least equivalent to proficient on appropriate Advanced Placement exam; or
- Earn a final course grade that is equivalent to a "B" or higher in appropriate classes taken through the College Credit Plus program; or
- In lieu of the American History and American Government end of course examination, attaining a final course grade that is the equivalent of a "B" or higher in an American History course and an American Government course that are offered by the student's high school.

Ohio Means Jobs Readiness Seal:

- Demonstrate proficiency in each of 15 identified professional skills, and
- Use the Ohio Means Jobs Readiness Seal form to record demonstration of each professional skill, and
- Work with a mentor to validate (confirm) each skill across the minimum of two of the three environments (school, work, community)

Biliteracy Seal:

- Meet the requirements and criteria, including proficiency requirements on assessments in English, and
- Meet the requirements and criteria, including proficiency requirements on assessments in a world language. Students must consult the advanced level teachers (years 3 and 4) of a language to determine the best world language assessment from the Ohio Department of Education for their language.

College-Ready Seal:

- Earn remediation-free scores on the ACT, or
- Earn remediation-free scores on the SAT.

Science Seal:

- Earn a score of proficient or higher on the biology end-of-course exam; or
- Earn a score that is at least equivalent to proficient on appropriate Advanced Placement exam; or
- Earn a final course grade that is equivalent to a "B" or higher in an appropriate class taken through the College Credit Plus program, or
- In lieu of the Science end of course examination, attaining a final course grade that is equivalent of a "B" or higher in an upper-level Science course that is offered by the student's high school.

Honors Seal:

- Earn an Academic Honor Diploma as defined in the Boardman High School Course Description Handbook.

LOCALLY DESIGNED SEALS**Community Service Seal:**

- 30 cumulative hours 9th -12th grade of a community service project or group of small projects based on one goal.
- Complete verification section of Student Success Plan with counselor providing documentation of hours completed. Documentation forms can be obtained from the counseling Google Classroom.
- Students are required to submit a completed community service agreement that is signed by the advisor, student, parent, and an individual at the organization who will oversee the student's work.

Student Engagement Seal:

- Two completed “seasons” of a school sanctioned student organization or sport. Outside sports and organizations as deemed appropriate by the school counselor.
- Complete verification section of Student Success Plan with counselor providing documentation of hours completed. Documentation forms can be obtained from the counseling Google Classroom.

Fine and Performing Arts Seal:

- Two years, two completed credits (four semesters) of the following: Band/Marching Band, Jazz 1, 2, Symphony Orchestra, Chamber Orchestra, Classical Orchestra, Pit Orchestra, Project Mayhem, Spartan Singers, Boardman Singers, Mixed Choir, Choir, Chorale, Drama Guild Theatre Production Cast, Art offerings.
- Complete verification section of Student Success Plan with counselor providing documentation of hours completed. Documentation forms can be obtained from a counseling Google Classroom.

CRITERIA FOR AWARDING FIRST IN CLASS

To be awarded the honor of First in Class, the student shall be required to meet all of the criteria listed in this policy.

The student must physically attend Boardman High School for a minimum of four semesters. For purposes of illustration only, this would not include such educational options as home schooling, home instruction, any other public or parochial school, Valley Virtual, or Mahoning County High School (MCHS).

1. The student must satisfy the following curriculum requirements:

- a. English - complete 4 years (or the credit equivalent) including a minimum of **three years** of the following choices of course selections:
 - i. Honors English 9
 - ii. Honors English 10
 - iii. AP English 11
 - iv. AP English 12
- b. Mathematics - complete 4 years (or the credit equivalent) including a minimum of **one year** of the following:
 - i. Calculus
 - ii. AP Calculus
 - iii. AP Statistics
- c. Science - complete 4 years (or the credit equivalent) including a minimum of **two years** of the following choices of course selections:
 - i. AP Biology
 - ii. Honors Chemistry or AP Chemistry
 - iii. Physics
- d. Social Studies - completed 3 years (or the credit equivalent) including a minimum of **two years** of the following:
 - i. Honors World History
 - ii. AP US History (Honors US History for class of 2024)
 - iii. AP Government
 - iv. AP Psychology
 - v. AP Human Geography

2. Must complete **two** of the following with **one** being Honors or AP:

- a. Earn either three credits of one foreign language or two credits each of two foreign languages
- b. Earn one credit of art or music
- c. Earn one credit of business, technology, or industrial technology
- d. Year 4 of Spanish or Italian, AP 2D Art, AP Computer Science Principles, and 6 credits of music are all considered options for the AP and Honors requirement.

3. Any student receiving high school credit in accordance with CCP post-secondary enrollment options shall receive credit for this course towards the requirements of this policy providing prior approval has been granted. *Please note that any CCP science class must include the lab component.
4. Students transferring to BHS can request to have previous coursework evaluated to satisfy the requirements in sections 1 and 2. Transfer students must physically attend Boardman High School for a minimum of four semesters as mentioned previously.
5. This policy will be in effect for all students new to Boardman High School in the school year 2020-2021 and thereafter (beginning with the class of 2024).

ACADEMIC HONORS DIPLOMA

(STUDENTS MUST MEET ALL BUT ONE REQUIREMENT)

Requirements	State Minimum
Math	4 units
Science	4 units, including 2 units of advanced science
Social Studies	4 units
World Languages	3 units of one world language, or no less than 2 units of each of two world languages studied
Fine Arts	1 unit
GPA	3.5 on a 4.0 scale
ACT/SAT	ACT: 27 or higher/SAT: 1280 or higher

Math – Students must take Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course.

Science – Advanced science refers to courses that are inquiry based with laboratory experiences. They must align with the grades 11/12 standards (or above) or with an Advanced Placement science course or entry-level college course. These include Chemistry, Physics, Anatomy and Physiology, AP Chemistry, AP Biology, and AP Environmental Science.

Social Studies – Students may get credit for both an American history course and/or the Advanced Placement or International Baccalaureate American history course (same for government and world history).

World Language – Only credits from courses that are sequential, and proficiency based (e.g., Spanish levels I, II, III or Italian I, II, III) fulfill the honors diploma requirement. Sequential classical (e.g., Latin, Ancient Greek) and visual (e.g., American Sign Language) languages DO fulfill the honors diploma requirement. If a student opts to complete this criterion by taking *two units each of two world languages studied*, a student must complete a total of four world language units. This means two sequential, proficiency-based units in two different languages.

GPA – GPAs must be calculated on an unweighted 4.0 scale.

ACT and SAT score requirements – Students must have scores of 27 or higher on the ACT or 1280 or higher on the 2016 SAT or their equivalents on previous or future versions of the tests.

SENIOR HONORS ASSEMBLY

As a recognition of excellence in scholarship, the school presents awards to the seniors who have made the best records in each department. Special awards are given to students for outstanding scholastic achievement and for outstanding service. Scholarship recipients are honored. Students are also recognized for outstanding performance on national testing programs.

HONOR GRADUATES

Senior scholars who meet all eligibility requirements, which include having an accumulative grade point average of 3.5 or better at the end of the seventh semester, will be recognized during the Senior Honors Assembly and Commencement. Honor graduates will wear a silver stole at commencement and receive an honors certificate signifying superior academic achievement.

COMMENCEMENT REQUIREMENTS

It shall be the policy of the Board of Education to acknowledge each student's successful completion of the instructional program and the successful completion of the State required proficiency tests by awarding a diploma at an appropriate commencement exercise.

The Board shall award a regular high school diploma to every student enrolled in the district who meets the requirements for graduation established by this Board and approved by the State Board of Education. Each diploma shall be signed by the President and Treasurer of the Board, the Local and County Superintendents, and the principal of the high school, and shall bear the date of its issue.

The requirement for graduation shall be the successful completion of the State required tests and the completion of work and studies representing the instructional program assigned to grades nine through twelve. A diploma shall not be awarded to any student who has not successfully completed the listed requirements. Participation in commencement is a privilege reserved for those individuals who successfully complete all graduation requirements established by the Boardman Board of Education. Failure to meet all local and state requirements will exclude an individual from commencement exercises.

PREPARING FOR COLLEGE

Colleges vary considerably in their admission requirements, making it difficult to list minimum high school course prerequisites. Nevertheless, it is safe to assume that all colleges expect their applicants to be well-prepared in the core academic subjects. With that in mind, Boardman students are encouraged to pursue the following minimum curriculum to prepare for college:

English	4 credits
Math	4 credits
Science	3 credits
Social Studies	3 credits
Foreign Language	2 credits, same language
Fine or Performing Arts	1 credit
Other	1 elective academic credit

STUDENT SCHEDULING

The student scheduling process begins in February with group scheduling information sessions. These sessions acquaint students with the course offerings for the following school year. Between February and mid-April, students meet individually with their school counselors to finalize course selections.

EARLY DISMISSAL GUIDELINES

1. Reserved for juniors and seniors only
2. Must be determined to be "on-track" for graduation regarding credits and state testing
3. Must either have completed the physical education requirement, be enrolled in physical education during junior year, or completing the requirements for the physical education waiver
4. Must be approved by parent with a signed form returned to counselor
5. Must leave the building immediately at the conclusion of 6th period

Students who choose Early Dismissal must provide their own transportation and will not be transported on the afternoon school bus. Violation of any of these rules will cause the student to lose this privilege and be required to stay at school in study hall seventh period.

CLASS DROP POLICY

Students enrolled in 5 classes:

Any student enrolled in five classes who drops or is removed from a semester class will receive an F for the class. This grade will be calculated into GPA.

Any student enrolled in five classes who drops or is removed from a full year class will receive an F for the class. This grade will be calculated into GPA.

Students enrolled in more than 5 classes

Any student enrolled in more than five classes may drop a class without penalty until one week after the first report card is issued. After this date, any student who drops or is removed from a class will receive an F for the class, whether it is a semester course or a full year course. This grade will be calculated into GPA.

ELIGIBILITY RULES FOR ATHLETICS

In order to participate in any interscholastic event, students must meet the eligibility requirements formulated by the Ohio High School Athletic Association and Boardman High School. At present, these are:

1. Passed subjects the immediately preceding grade period that were equal to five credits per year.
2. Passing in subjects that are equal to five credits per year and meeting the weekly eligibility requirements during the season and the postseason.

NCAA REQUIREMENTS

Student athletes expecting to participate in athletics in a Division I or Division II college in their freshman year must meet specific NCAA course requirements while in high school. Students and their parents should consult with the school counselors when selecting high school courses to ensure they are meeting NCAA course requirements.

NATIONAL HONOR SOCIETY

To be considered for National Honor Society at Boardman High School, a student must meet all eligibility requirements, which include the following: is currently a junior or senior; has attended Boardman High School for at least one semester; has a 3.5 GPA after five semesters (mid-way through the junior year) or seven semesters (mid-way through the senior year); and submits an Activity Information Form which gives evidence of the four qualities specifically cited for membership in the society - character, service, leadership, and scholarship. All members of the high school faculty have nominating privileges. The Faculty Council, with the assistance of the Faculty Advisory Committee, selects the members.

STUDENT FOLDER AND INFORMATION SUPPLEMENT

Boardman High School's Counseling Department provides each student with a folder containing the Student Information Supplement. These two documents include all rules and regulations concerning student conduct and attendance, as well as all pertinent information concerning activities and the everyday needs of students. General information valuable to parents and students is also included.

DEPARTMENT FEES

Students should be aware that certain courses will require fees for expendable materials, supplies, equipment, and workbooks. Fees are established by the Board of Education prior to the opening of each school year and must be paid in order to receive grades and credits.

PARENT ACCESS

Having completed Final Forms, every parent and student receives a parent or student Progress Book account. This online account allows parents to securely log in to the internet to see their student's attendance information, class assignments, class fees and fines and their status, demographic, and report card information. Password and login information will be provided to parents and students at the beginning of the school year.

PROMOTION CRITERIA FOR STUDENTS GRADES 9 THROUGH 12

1. A first-year student in high school is considered a member of the freshman class.
2. A second-year student in high school shall be considered a member of the sophomore class contingent on the accumulation of 4.25 credits, 1 of which must be an English credit required for graduation, prior to the first day of classes. Failure to reach 4.25 credits will result in the student remaining a member of the freshman class for the school year.
3. A third-year student in high school will be considered a member of the junior class contingent on the accumulation of 9 credits, 2 of which must be English credits required for graduation, prior to the first day of classes. Failure to reach 9 credits will result in the student remaining a member of the sophomore class for the school year.
4. A fourth-year student will be considered a senior if all graduation requirements can be met before the first day of classes the following school year. Students with fewer than 13 credits must have a graduation plan on file with their counselor prior to the first day of school.

FRESHMAN COURSE OFFERINGS

English 1	1.0 credit	Introduction to Business	.5 credits
Honors English 1*	1.0 credit	Social Media Coding & Concepts	.5 credits
English 1R	1.0 credit	Engineering & 3D Printing	1.0 credit
Reading Supports & Study Skills	1.0 credit	Italian 1*	1.0 credit
Algebra 1	1.0 credit	Spanish 1*	1.0 credit
Honors Algebra 1*	1.0 credit	Film Studies	.5 credits
Honors Geometry*	1.0 credit	Media, Content Creation, Podcasting & Intro to Drone Piloting	1.0 credit
Biology	1.0 credit	Digital Media & Film Productions	1.0 credit
Honors Biology*	1.0 credit	Wood Technology 1	.5 credits
Principles of Robotics	.5 credits	Wood Technology 2	.5 credits
World History	1.0 credit	Mixed Chorus	1.0 credit
Honors World History*	1.0 credit	●Classical Orchestra*	1.0 credit
Physical Education	.25 credits	●Symphony Orchestra*	1.0 credit
Health	.5 credits	●Chamber Orchestra*	1.0 credit
Art 1 & 2	.5 credits each	Band	1.0 credit
Digital Art 1	.5 credits	Jazz Ensemble 1*	1.0 credit
Digital Art 2	.5 credits	Jazz Ensemble 2*	1.0 credit

*Teacher recommendation required

•Please note: Students must audition for all Orchestras.

FURTHER COURSES OFFERINGS AT BOARDMAN HIGH SCHOOL

ART		MATHEMATICS	
Art 1	.5 credits	Pre-Calculus	1.0 credit
Art 2	.5 credits	Statistics	1.0 credit
Art 3	.5 credits	AP Statistics	1.0 credit
Art 4	1.0 credit	Calculus 1 & 2	1.0 credit
Art 5/ AP 2D Design	1.0 credit	AP Calculus 1 & 2	1.0 credit
Digital Art 1	.5 credits	MEDIA PRODUCTIONS	
Digital Art 2	.5 credits	Film Studies	.5 credits

Digital Art 3	1.0 credit		Media, Content Creation, Podcasting & Intro to Drone Piloting	1.0 credit
Digital Art 4/AP 2D Design	1.0 credit		Digital Media & Film Productions	1.0 credit
BUSINESS AND TECHNOLOGY			Advanced Film Production & Drone Piloting	1.0 credit
Personal Financial Literacy	.5 credits		MUSIC	
Introduction to Business	.5 credits		Band	1.0 credit
Accounting 1	.5 credits		Jazz Ensemble 1	1.0 credit
Accounting 2	.5 credits		Jazz Ensemble 2	1.0 credit
Entrepreneurship	.5 credits		Classical Orchestra	1.0 credit
Social Media Coding & Concepts	.5 credits		Chamber Orchestra	1.0 credit
Engineering & 3D Printing	.5 credits		Mixed Chorus	1.0 credit
Video Game & Computer Programming	.5 credits		Choir	1.0 credit
AP Computer Science Principles	1.0 credit		Chorale	1.0 credit
MS Office Specialist	1.0 credit		Boardman Singers	1.0 credit
Information Technology & Repair	1.0 credit		American Lifetime Music	.5 credits
ENGLISH LANGUAGE ARTS			Music Through the Ages	.5 credits
English 1	1.0 credit		SCIENCE	
Honors English 1	1.0 credit		Biology	1.0 credit
English 1R	1.0 credits		Honors Biology	1.0 credit
English 2	1.0 credit		AP Biology	1.0 credit
Honors English 2	1.0 credit		Physical Science	1.0 credit
English 2R	1.0 credits		Anatomy & Physiology	1.0 credit
English 3	1.0 credit		Astronomy	.5 credits
AP English 3	1.0 credit		KSU CCP Frontiers in Astronomy & Lab	1.0 credit
English 3R	1.0 credit		Environmental Science	.5 credits
English 4	1.0 credit		AP Environmental Science	1.0 credit
AP English 4	1.0 credit		Oceanography	.5 credits
English 4R	1.0 credit		Principles of Robotics	.5 credits
Journalism 1	1.0 credit		Chemistry	1.0 credit
Journalism 2	1.0 credit		Honors Chemistry	1.0 credit
Journalism 3	1.0 credit		AP Chemistry	1.0 credit
Publications	1.0 credit		Physics	1.0 credit
Reading Supports & Study Skills	.5 credits		KSU CCP 7 Ideas that Shook the Universe	1.0 credit
World Mythology	.5 credits		SOCIAL STUDIES	
The Holocaust: Tragedy, Resistance, & Resilience	.5 credits		World History	1.0 credit
YSU CCP Writing 1	1.0 credit		Honors World History	1.0 credit
YSU CCP American Literature & Diversity	1.0 credit		U.S. History	1.0 credit
HEALTH & PHYSICAL EDUCATION			AP U.S. History	1.0 credit
Physical Education	.25 credits		American Government	1.0 credit
Health	.5 credits		AP American Government	1.0 credit
Fitness & Lifetime Sports	.5 credits		Sociology	.5 credits
Strength & Conditioning	.5 credits		AP Human Geography	1.0 credit
Introduction to Sports Officiating	.5 credits		Psychology	.5 credits
INDUSTRIAL TECHNOLOGY			AP Psychology	1.0 credit
Wood Technology 1 & 2	.5 credits		History of America Influencers	.5 credits
Wood Technology 3	1.0 credit		WORLD LANGUAGES	
Wood Technology 4	1.0 credit		Italian 1	1.0 credit
MATHEMATICS			Italian 2	1.0 credit
Algebra 1	1.0 credit		Italian 3	1.0 credit
Honors Algebra 1	1.0 credit		Honors Italian 4	1.0 credit
Geometry	1.0 credit		Spanish 1	1.0 credit
Honors Geometry	1.0 credit		Spanish 2	1.0 credit
Algebra 2	1.0 credit		Spanish 3	1.0 credit

Honors Algebra 2	1.0 credit		Honors Spanish 4	1.0 credit
Discrete Math/Computer Science	1.0 credit			

EDUCATIONAL OPTIONS

Students may request approval for credit earned by completing coursework, testing out or showing mastery of course content, by pursuing an educational option such as summer school, night school, or college credit, or by any combination of these on the condition that prior approval by the principal has been granted. Correspondence credit may be used to meet graduation requirements only when prior approval has been granted and the student's class has graduated. This applies to students attending Boardman High School and Technical Center (See Board Policy 2370 regarding Educational Options).

Each year we are required to inform parents of the provisions of the Educational Reform Act, also known as College Credit Plus, which permits some students to attend college and take college courses and earn high school and college credit simultaneously. The first requirement is that the student must apply and be accepted by a college. Students must have taken an ACT or SAT prior to March 1. The program might be especially appropriate for the high ability student for whom the traditional high school curriculum may be inhibiting or redundant. Deadline to turn in the Letter of Intent Form is April 1st.

MAHONING COUNTY CAREER & TECHNICAL CENTER

The Mahoning County Career & Technical Center provides another alternative for Boardman students interested in technical or vocational training. The student attends the technical center for classes but remains on the rolls of Boardman High School and will graduate with the regular class. Programs at the technical center are two years in duration, the junior and senior years. A student will not be admitted to their program or their admissions will be revoked if they are 2 credits deficient.

Admission to the technical center is not automatic. Many of the more popular programs may have more applicants than the number of positions available. In these cases, selection will be determined by attendance during the ninth and tenth grades, teacher recommendations, related activities, and grades in related courses.

A student returning to Boardman High School from the Mahoning County Career & Technical Center must complete the specific requirements for graduation for those students attending Boardman High School.

SPECIAL EDUCATION DEPARTMENT

A curriculum in academic subjects and functional skills is available for students with disabilities. These classes are designed to meet the specific needs of students receiving special education intervention as required by the Individuals with Disabilities Education Act (IDEA). The identified students are assessed via the multi-factored evaluation (MFE), and an Individualized Education Program (IEP) is designed to meet those needs. Courses are selected for the students at the annual review of the Individualized Education Program by the IEP team.

Students who are on an IEP have several options for their instruction. Resource room instruction serves students whose learning is best achieved in small classes with direct guided instruction designed to meet the goals and objectives of the IEP. Resource room courses are offered in core academic content areas such as English Language Arts, Mathematics, Science, and Social Studies at certain levels.

Boardman High School also offers co-taught instruction in many courses for students on an IEP, with in-class support provided by an intervention specialist along with the general education teacher. IEP students will be placed in the environment where they can be most successful, as determined by our IEP team and upon the recommendation of the guidance and special education departments.

ART DEPARTMENT

The art program offers many options for students who are interested in developing their abilities to create art, such as studio art, computer graphics, and photography.

Art 1 Grades 9, 10, 11, 12; one semester, .5 credit
Prerequisite: none

This introductory studio class will familiarize students with the Elements and Principles of Art and Design. Students will use a variety of art-making techniques and materials to produce 2D and 3D works. Students will learn how to prepare for a project, document their progress and manage their time.

Art 2 Grades 9, 10, 11, 12; one semester, .5 credit
Prerequisite: Earn a C or better in Art 1

This beginner-level studio art class is a continuation of skills learned in Art 1. Students will create both 2D and 3D works using a variety of materials. Students will continue to document their ideas and progress throughout the course.

Art 3 Grades 10, 11, 12; one semester, .5 credit
Prerequisite: Earn a B or better in Art 2

This intermediate-level studio art class will build on previously learned drawing, painting skills, and 3D skills. Students will participate in critiques with their classmates to generate ideas and feedback. Students will continue to document their ideas and progress throughout the course.

Art 4 Grades 11, 12; both semesters, 1 credit
Prerequisite: Earn a B or better in Art 3

This year-long, advanced-level studio art course will focus on creating conceptual works and building drawing, painting, and 3D skills. Students will participate in critiques with their classmates to generate ideas and feedback. Students will continue to document their ideas and progress throughout the course.

Art 5/AP 2D Design Grade 12; both semesters, 1 credit
Prerequisite: Earn B or better in Art 4; teacher recommendation

This year-long, advanced-level studio art course will facilitate students in their independent studies using materials of their choice. Students will participate in critiques with their classmates to generate ideas and feedback. Students must decide by the end of the first 9 weeks if they will complete all AP coursework and submit a portfolio for AP consideration. AP 2D Art coursework includes successful completion of summer sketches, reflections, and artwork to be counted towards first quarter grades. Students are **required** to submit the Advanced Placement portfolio in order to receive credit for the course, AP 2D Art.

Digital Art 1 Grades 9, 10, 11, 12; one semester, .5 credit
Prerequisite: none

This introductory digital art class will familiarize students with the Elements and Principles of Art and Design. Students will use a variety of art-making software to produce 2D works. Students will learn how to prepare for a project, document their progress, and manage their time. Students will need a camera or cell phone to take photos for class assignments.

Digital Art 2 Grades 9, 10, 11, 12; one semester, .5 credit
Prerequisite: Earn a grade of C or above in Digital Art 1

This beginning-level digital art class will familiarize students with the Fundamentals of Photography and Graphic Design. Students will use a variety of art-making software to produce 2D works. Students will learn how to prepare for a project, document their progress, and manage their time. Students will need a camera or cell phone to take photos for class assignments.

Digital Art 3

Grades 10, 11, 12; both semesters, 1 credit

Prerequisite: Earn a grade of B or better in Digital Art 2

This year-long, intermediate-level digital art class will build on photography and graphic design skills. Students will participate in critiques with their classmates to generate ideas and feedback. Students will continue to document their ideas and progress throughout the course while working on an independent project in preparation for AP 2D Design. Students will need a camera or cell phone to take photos for class assignments.

Digital Art 4/AP 2D Design

Grades 11, 12; both semesters, 1 credit

Prerequisite: Earn a grade of B or better in Digital Art 3

This year-long, advanced-level digital art class will facilitate students in their independent studies using digital media of their choice. Students will participate in critiques with their classmates to generate ideas and feedback. Students will need a camera or cell phone to take photos for class assignments. Students must decide by the end of the first 9 weeks if they will complete all AP coursework and submit a portfolio for AP consideration. Students are **required** to submit the Advanced Placement portfolio in order to receive credit for the course, AP 2D Art.

BUSINESS & TECHNOLOGY DEPARTMENT

The Business & Technology Education Department offers a variety of courses designed to enrich the students' knowledge of the skills needed for the 21st Century world of business and technology. Courses provide the student with valuable 21st Century life skills for their futures in college and the work world.

Personal Financial Literacy Grade 10, 11, 12; one semester, .5 credit
Prerequisite: none

*** For students who enter ninth grade for the first time on or after July 1, 2022, the state of Ohio requires ½ credit of Financial Literacy be taken prior to graduating.**

Understanding and managing personal finances are critical to your future financial success. This personal finance course gives students the essential knowledge and skills to make informed decisions about real financial issues. Students will learn to apply decision-making skills to set personal goals and to evaluate career choices, calculate paychecks and taxes, debt and credit management, as well as utilize investment tools and risk management. Students will complete a banking/checking account simulation and participate in a real-world stock market investment game.

Introduction to Business Grades 9, 10, 11, 12; one semester, .5 credit
Prerequisite: none

This course covers the legal and social environment of business, ethics, social responsibility with a focus on marketing. Marketing includes product/service management, distribution, selling, marketing information management, financing, pricing, and promotion. We will examine marketing using social media, publicity, influencers, sponsorship, endorsements, licensing, branding, event marketing in the sports and entertainment industries.

Accounting 1 Grades 10, 11, 12; one semester, .5 credit
Prerequisite: none

This class is designed to provide an introduction to fundamental accounting principles within the context of a service business model. This course aims to equip students with essential skills in financial record-keeping, analysis, and reporting emphasizing practical applications in real-world scenarios. Students will explore the entire accounting cycle, delving into financial transactions, journalizing, posting to the general ledger, and the preparation of adjusted trial balances. Special focus will be placed on the unique aspects of accounting for service businesses, including the recognition and measurement of revenue and expenses using accrual accounting.

Accounting 2 Grades 10, 11, 12; one semester, .5 credit
Prerequisite: Accounting 1 with a grade of C or better

Accounting 2 builds upon the foundational principles introduced in Accounting 1 with a focus on advanced topics relevant to corporate accounting. This course aims to deepen students' understanding of financial reporting and analysis, emphasizing the unique accounting challenges faced by corporations. Units will include: special journals, payroll, accounting fraud and recording sales of stock. This course is ideal for high school students aspiring to pursue a career in accounting, finance, or business management.

Video Game & Computer Programming Grades 10, 11, 12; one semester, .5 credit
Prerequisite: Must have taken, or taking concurrently, Geometry
*Successful completion of this course qualifies for ½ Technology Seal.

In this class, students will develop problem-solving skills and an understanding of different computer programming concepts and languages. This course will give the student the foundation needed for programming languages such as Python, Video Game Programming using GameMaker and Construct 3, and other computer programming languages used to develop customized programs, software and video games. Students will study various current technology topics, including emerging technologies and possible career options in the technology area. Students will analyze legal, ethical, and global impacts of the technology and develop design solutions, solve problems, and create a game using the technology tools that they will learn. In addition, students will spend time learning and understanding eSports gaming concepts.

MS Office Specialist

Grades 11, 12; both semesters, 1 credit

Prerequisite: none

*Successful completion of this course qualifies for Industry-Recognized Credential Seal.

The Microsoft Office Specialist (MOS) Certification Prep course for high school students is a comprehensive program aimed at developing essential skills in Microsoft Word, Excel, Outlook, and PowerPoint. Throughout the course, students will learn the fundamentals of creating and formatting documents in Word, building and formatting spreadsheets in Excel, and designing effective presentations in PowerPoint. The curriculum covers collaboration tools, emphasizing cloud-based solutions like Microsoft OneDrive and teaches students how to integrate various Microsoft Office applications for seamless workflow. The course includes MOS certification exam preparation, incorporating practice exams and simulations to reinforce skills, along with test-taking strategies. Students who take this class are required to take four certification tests. Students who earn certification in all four programs will also earn the diploma seal for Industry Credential.

Social Media, Coding & Concepts

Grades 9, 10, 11, 12; one semester, .5 credit

Prerequisite: none

*Successful completion of this course qualifies for ½ Technology Seal.

This course is designed to provide students with beginning programming experience in HTML, CSS, Python, and application development for mobile devices using multiple programs. These programs will help students understand how to utilize computers to accomplish tasks effectively. Emphasis will be on writing logically structured, well-documented programs in each language taught. Other topics in this class may include digital citizenship, 3D printing, AI and robotics, digital tools, computational thinking, beginning social media programming, new technology advances, digital laws, copyright, and technology's legal, ethical, and global impacts. Students will also develop design solutions and solve problems.

Entrepreneurship

Grades 10, 11, 12; one semester, .5 credit

Prerequisite: none

Entrepreneurship is designed to cultivate a foundational understanding of entrepreneurial principles and practices, preparing students for the dynamic world of business innovation. Students will explore the entrepreneurial mindset, learning to identify opportunities, assess risks, and develop innovative solutions. A Central component of the course is the Lean Business Canvas methodology, which guides students through a systematic approach to business model development and validation. Students will learn to articulate key elements of a business idea, including customer segments, value propositions, channels, customer relationships, revenue streams, key resources, key activities, key partners, and cost structures. The curriculum will cover various aspects of entrepreneurship, including market research, product development, marketing strategies, financial planning, and business pitch ideas. Furthermore, the course will explore ethical considerations, social responsibility, and the impact of entrepreneurship on communities. Students will gain insight into sustainable business practices and the role of entrepreneurship in driving positive societal change. Whether students aspire to start their own business or contribute to innovative projects in existing organizations, this course equips them with the mindset and the tools to thrive in a rapidly evolving business landscape.

Engineering & 3D Printing

Grades 9, 10, 11, 12; one semester, .5 credit

Prerequisite: none

*Successful completion of this course qualifies for ½ Technology Seal.

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects in this course. They work both individually and in teams to design solutions to various problems using 3D modeling software and additive manufacturing techniques. Students gain valuable experience using 3D printers, creating various engineering projects and 3D computer programs using several computer programs and languages (3D computer programming). Legal, ethical and global impacts of the technology will be analyzed in addition to developing design solutions, solving problems, and creating various solutions to real world situations.

AP Computer Science Principles

Grades 10, 11, 12; both semesters, 1 credit

Prerequisite: Completed Integrated Math 1

*Successful completion of this course combined with a 3 or higher on the AP exam qualifies for a full Technology Seal.

The AP Computer Science Principles course is a college-level course that will introduce students to the essential ideas of computer science and show how computing and technology can influence the world. This course is for both the novice and the computer expert. This course is far more than just learning to program. Along with the fundamentals of computing, students will learn to analyze data, information, or knowledge represented for computational use, create technology that has a practical impact, and gain a broader understanding of how computer science influences people and society. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. Students are **required** to take the Advanced Placement test and create additional tasks, which must be submitted to AP College Board in order to receive credit for this course.

Information Technology & Repair

Grades 10, 11, 12, both semesters, 1 credit

Prerequisite: Faculty recommendation

Computers/devices are an integral part of everyday life, used at home, in the workplace, and at schools. This computer/device usage has created a high demand for specialists to advise users and day-to-day administration, maintenance, and support of computer systems and networks. In the class, students will be given an opportunity to practice new skills by repairing computers/devices, wiring networks, various other equipment, assisting students, staff, and administrators with technical issues. Students will learn how to maintain a network of computers/devices, troubleshoot and repair malfunctioning computers/devices, upgrade systems, and install software. Students will also cover topics in technology such as machine learning and artificial intelligence. The completion of this course will also allow students to take the Comp TIA IT Fundamentals Certification Test.

Career Exploration

Grade 12 (some select Grade 11); both semesters, 1 credit

*Placement in this class by counselor permission only

This year-long course is designed for seniors to help explore careers and achieve industry recognized credentialing. Students will use OhioMeansJobs and other career exploration programs to choose a potential career path. Guest speakers in many different fields will visit class to help students understand the intricacies of various careers. Further, students will be able to utilize class time to shadow potential careers. In order to succeed in the class, students must successfully complete an industry recognized credential, the OhioMeansJobs Readiness seal, a minimum of three job shadows with accompanying report, and an approved resume.

ENGLISH DEPARTMENT

Four years of English are required of all students. Composition and literature are the dual elements studied. Ancillary programs in Publications, Journalism, and World Mythology are available as electives but do not fulfill the 4 years of the English requirement. Students who receive a grade of D or F in an honors/advanced class will be reassigned to a general level English class the following year. Honors and advanced have specific requirements as listed below.

English 1 Grade 9; both semesters, 1 credit
Prerequisite: none

Freshmen are required to enroll in the general English course. Instruction in fundamental literary interpretation and written composition are the main focus of the course. Separate literature units will also be studied. The course contains basic composition and EOC review, as well as different literature units.

English 1R Grade 9; both semesters, 1 credits (*Recommendation for Reading & Study Skills concurrently)
Prerequisite: middle school counselor and teacher recommendation; difficulty with writing, reading, and based on collective criteria

This course is structured with extra support and differentiation to meet the needs of freshmen having difficulty in reading and writing. Instruction in fundamental literary interpretation and written composition are the main focus of the course. Separate literature units will also be studied. The course contains basic composition and EOC review as well as different literature units.

Honors English 1 Grade 9; both semesters, 1 credit
Prerequisite: middle school counselor and teacher recommendation.
Summer reading and writing assignment required and due the first day of school

This course provides an enriched and intensified version of the regular ninth grade course, designed for those students whose previous language arts interest and achievement indicate the need for such special instruction. This class demands strong interaction in groups, oral presentation skills, and class participation. The rigor and content is advanced and a strong interest in reading and writing is required.

English 2 Grade 10; both semesters, 1 credit
Prerequisite: Successful completion of English 1

Sophomores study drama, poetry, non-fiction, the short story, and the novel. Concentrated practice is provided in expository writing based on topics from required readings and other sources. The course contains basic composition and EOC review, as well as different literature units.

English 2R Grade 10; both semesters, 1 credits (*Recommendation for Reading & Study Skills concurrently)
Prerequisite: Faculty and school counselor recommendation; difficulty with writing, reading, and based on collective criteria; successful completion of English 1 or English 1R

A continuation of the English 1R course; this course is structured to meet the needs of sophomores having difficulties in reading and writing. Sophomores study drama, poetry, non-fiction, the short story, and the novel. Concentrated practice is provided in expository writing based on topics from required readings and other sources. The course contains basic composition and EOC review, as well as different literature units.

Honors English 2 Grade 10; both semesters, 1 credit
Prerequisite: Faculty and school counselor recommendation; summer reading and writing assignment due on the first day of school; successful completion of English 1

This is an honors course that will intensify the students' work in tenth grade literature and give special attention to the organization and development of ideas in writing. English 1 grades and teacher recommendation are considered for placement. The rigor and content is advanced and a strong interest in reading and writing is required.

English 3

Grade 11; both semesters, 1 credit

Prerequisite: Successful completion of English 2

Juniors study American literature, poetry, novels, short stories, and non-fiction. The course contains in-depth writing practice. ACT preparation will be a part of junior English in order to expose the students to the rigor and expectations of the ACT.

English 3 R

Grade 11; both semesters, 1 credit

Prerequisite: Faculty and school counselor recommendation; successful completion of English 2 or English 2R

A continuation of the remedial program, English 3 R is structured to meet the needs of junior students having pronounced difficulties in reading and writing.

AP English 3

Grade 11; both semesters, 1 credit

Prerequisite: Faculty and school counselor recommendation; successful completion of English 2 or English 2H, writing / work sample evaluation by BHS English Department; summer reading and writing assignment required and due on the first day of school

English 3 AP is a college level course and combines a sophisticated, rigorous approach to literature with highly individualized instruction in composition. This course is intended for students with intense interest and ability in advanced language arts study going beyond normal high school expectations. Strong study, reading, and presentation skills, as well as classroom interaction and consistent attendance are needed for success due to the rigor of this college level class. Students are **required** to take the Advanced Placement Test for Language and Composition.

English 4

Grade 12; both semesters, 1 credit

Prerequisite: Successful completion of English 3

Seniors complete a survey course in English literature, Greek, Elizabethan, and modern drama. This will include extensive planning and preparation of research, argumentation, and analysis papers.

English 4R

Grade 12; both semesters, 1 credit

Prerequisite: Faculty and school counselor recommendations; successful completion of English 3 or English 3 R

A continuation of the remedial program, English 4 R is structured to meet the needs of senior students having pronounced difficulties in reading and writing.

AP English 4

Grade 12: both semesters, 1 credit

Prerequisite: Faculty and school counselor recommendation; successful completion of English 3 or English 3AP, writing / work sample evaluation by BHS English Department; summer reading and writing assignment required and due on the first day of school

English 4 AP is a college level course that pursues writing excellence and undertakes a rigorous study of a broad spectrum of the world's literary works. This course is for only the most serious language arts students with strong reading and advanced writing skills as well as an intense interest in literature looking beyond high school. Students are **required** to take the Advanced Placement Test for Literature and Composition.

Reading Supports & Study Skills

Grades 9, 10: both semesters, 1 credit

Prerequisite: Take concurrently with English 1R or English 2R

This course provides extra support to meet the needs of freshmen and sophomores who are having difficulty with reading comprehension. Instruction will focus on EOC review and study skills. Instruction emphasizes reading comprehension, vocabulary, and study skills through the use of a variety of literary and informational texts encompassing a broad range of text structures, genres, and levels of complexity. The course will incorporate computer-based programs such as NoRedInk and CommonLit.

Journalism 1

Grades 10, 11; both semesters, 1 credit

Prerequisite: Teacher recommendation; grade of A or B in the previous English class

Journalism 1 is a course which provides students an understanding of media with a concentration on the newspaper. Students will begin the year learning the foundations of journalism. Additionally, all students will write articles for *The Bugle*, Boardman High School's student newspaper, and they will concentrate on advertising, photography, editing, and social media skills as they relate to the paper.

Journalism 2-3

Grades 10, 11, 12; both semesters, 1 credit

Prerequisite: Journalism 1 with a grade of A or B

In a workshop setting, class members will comprise a monthly publication of *The Bugle*. Students will also be responsible for advertising, photography, editing, and social media-related content for the newspaper. Students must have a strong interest in journalistic writing.

Publications

Grades 10, 11, 12; both semesters, 1 credit

Prerequisite: Teacher recommendation; grade of A or B in the previous English class; approval from the *Crier* advisor

Students learn journalism skills, computer programs, and digital photography needed to create the *Crier* yearbook. This is a full year commitment during which students are responsible for taking the pictures, writing the text, and creating the pages of the yearbook. Students are graded and tested, and are responsible for obtaining a page of ads, and for meeting all deadlines. Strong writing and/or photography skills are essential.

World Mythology

Grades 11, 12; semester, .5 credits

Prerequisite: Successful completion of English 10 or English 10 H

This class takes a broad overview of mythological stories from around the world including Ancient Greece, Rome, Egypt, Mesopotamia, China, Japan, Mesoamerica, Celtic Ireland, Norway, and much more. Students will explore Joseph Campbell's Monomyth and the hero's journey focusing on tales such as *The Epic of Gilgamesh*, *The 12 Labors of Hercules*, *The Descent of Inanna*, *King Arthur*, etc. Students will also examine how modern stories, such as *The Lord of the Rings*, the stories of Marvel and DC superheroes, and films like *The Matrix*, borrow from the rich tradition of mythology.

The Holocaust: Tragedy, Resistance, and Resilience

Grades 10, 11, 12; semester, .5 credits

Prerequisite: none

This semester course explores the history and consequences of the Holocaust. Focus areas include collaboration and resistance, the concentration-camp system, and postwar justice. The course will incorporate a wealth of voices and viewpoints from leading researchers and guest lecturers. In addition, students will investigate numerous documents, photos, testimonies, and works of art from the United States Holocaust Memorial Museum.

YSU CCP English 1550 Writing 1

one semester, 1 credit (BHS), 3 Semester Hours (YSU)

Prerequisite: Must follow CCP process through BHS Counseling & YSU

This course focuses on the strategies for writing as a means of critical inquiry, with a focus on writing processes, and on the roles of a writer.

YSU CCP English 2618 American Literature and Diversity

one semester, 1 credit (BHS), 3 Semester Hours (YSU)

Prerequisite: Must follow CCP process through BHS Counseling & YSU

This course explores writers and works in relation to the diversity of American culture, politics, lifestyles, and social movements.

INDUSTRIAL TECHNOLOGY DEPARTMENT

The Industrial Technology Department offers courses in Wood Technology. These courses contribute to the growth of individuals by aiding in coordinating intellectual capacities with mechanical and hand skills. Students taking courses in Wood Technology must have fees and material money paid before advancing. Safety glasses, aprons, coveralls, boots, tape measures, and combination locks may be required. These must be purchased and brought in during the first week of that program. Failure to do so may cause the student to be asked to drop the course.

Wood Technology 1

Grades 9, 10, 11, 12; one semester, .5 credit

Prerequisite: none

This course is an introduction to wood processing, equipment uses, and safety procedures. Emphasis will be placed on safety procedures for all machine set-ups and cutting operations through lecture and demonstrations. Students will use techniques learned to build an instructor designed project based on the Carpenters International Training Fund text, *Career Connections - Project Book 1*. Besides course fees, students will be billed for wood material costs based on the amount of wood used for the projects.

Wood Technology 2

Grades 9, 10, 11, 12; one semester, .5 credit

Prerequisite: Wood 1 with a grade of C or better

This course is for students interested in continuing their knowledge, understanding, and skills in woodworking. The first project the student will have to choose is one of two instructor approved projects based on the Carpenters International Training Fund text, *Career Connections - Project Book 1*. Upon completion, and depending on the students' capabilities, the students will be able to choose their next projects. The projects must be approved by both the instructor and the parents. All students will have a chance to have their work displayed at the end of the year art show. Besides course fees, students will be billed for wood material costs based on the amount of wood used for the projects.

Wood Technology 3

Grades 10, 11, 12; both semesters, 1 credit

Prerequisite: Wood 2 with a grade of C or better

This course will continue skills learned in Woods 2. Students will complete one project that is chosen by the instructor based on the Carpenters International Training Fund text, *Career Connections - Project Book 2*. All other projects must be approved by both the instructor and parents. All students will have a chance to have their work displayed at the end of the year art show. Besides course fees, students will be billed for wood material costs based on the amount of wood used for the projects.

Wood Technology 4

Grades 10, 11, 12; both semesters, 1 credit

Prerequisite: Wood 3 with a grade of C or better

This course will continue skills learned in Woods 3. Students will complete one project that is chosen by the instructor based on the Carpenters International Training Fund text, *Career Connections - Project Book 2*. All other projects must be approved by both the instructor and parents. All students will have a chance to have their work displayed at the end of the year art show. Besides course fees, students will be billed for wood material costs based on the amount of wood used for the projects.

MATHEMATICS DEPARTMENT

The Mathematics Department offers courses covering topics from basic arithmetic to integral calculus.

Recommended Math Sequence

Grade 9	Grade 10	Grade 11	Grade 12
Algebra 1	Geometry	Algebra 2	Statistics Discrete Math Pre-Calculus
Honors Algebra 1	Honors Geometry	Honors Algebra 2	AP Stats or Calculus
	Geometry	Algebra 2	Discrete Math Pre-Calculus Statistics
Honors Geometry	Honors Algebra 2	AP Stats Calculus	AP Calculus
	Algebra 2	Pre-Calculus Discrete Math	Discrete Math Calculus Statistics

**** All students in Algebra 1 and Geometry will take the End of Course (EOC) Test**

***** H Algebra 2 students may choose Pre-Calculus or Basic Calculus for their next class, *but Algebra 2 students must take Pre-Calculus***

**** The TI-84 Plus CE graphing calculator is required for all math courses****

Algebra 1 and Honors Algebra 1

Grades 9, 10, 11, 12; both semesters, 1 credit

Prerequisite: none

Algebra 1 is the first course in the sequence. It includes multiple representations of linear and nonlinear functions, solving linear equations and inequalities, polynomials, quadratic functions, and an introduction to statistics. Honors Algebra 1 is the most rigorous of these courses; students must earn a C or better to remain in the Honors level.

Geometry and Honors Geometry

Grades 9, 10, 11, 12; both semesters, 1 credit

Prerequisite: Successful completion of Algebra 1

Geometry is the second course in the sequence. It includes an introduction to geometry-based topics, including proofs, transformations, probability, triangle congruence and similarity, along with an introduction to trigonometry. It also investigates various 2-dimensional and 3-dimensional shapes and their properties. Honors Geometry is the most rigorous of these courses; students must earn a C or better to remain in the Honors level.

Algebra 2 and Honors Algebra 2 Part 1 & 2

Grades 10, 11, 12; both semesters, .5 credit each

Prerequisite: Successful completion of Geometry

Algebra 2 Part 1 & 2 are the next courses in the sequence. They include the study of rational expressions, complex numbers, functions, exponents, and logarithms. They continue the study of geometry with circles, transformations, and trigonometry. The study of sequences, series, matrices, and math induction is introduced. Honors Algebra 2 is the most rigorous of these courses; students must earn a C or better to remain in the Honors level.

Discrete Math/Computer Science (DMCS)

Grades 11, 12; both semesters, 1 credit

Prerequisite: Successful completion of Geometry

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.

Pre-Calculus - Part 1 & Part 2

Grades 11, 12; both semesters, .5 credit each

Prerequisite: Successful completion of Algebra 2

This is a pre-calculus course designed for students who may continue their studies in areas that require calculus. This course consists of modern treatment of algebra, analytic geometry, and trigonometry. Topics studied include logic, sequences and series, vector algebra, analytic geometry, polynomial functions, exponential and logarithmic functions, and trigonometric and circular functions.

Statistics

Grades 11, 12; both semesters, .5 credit each

Prerequisite: Successful completion of Algebra 2CP

The Statistics course emphasizes statistical and probability literacy and develops statistical thinking skills through using real data, stressing conceptual understanding, fostering active learning in the classroom, and using technology. Topics in the Statistics course include displaying and describing data, the normal curve, regression, probability, statistical inference, confidence intervals, and hypothesis tests with applications in the real world.

AP Statistics

Grades 11, 12; both semesters, .5 credits each

Prerequisite: Successful completion of Algebra 2A or Calculus

AP Statistics is a college-level statistics course that introduces students to the main concepts and tools for collecting, analyzing, and drawing conclusions from data. Students work to understand statistics by using technology, investigations, problem-solving, and writing. Primary concepts include variation and distribution; patterns and uncertainty; and data-based predictions, decisions, and conclusions. Students enrolled in this course must have a strong mathematical background and interest in going beyond calculations to make decisions and draw conclusions. Students are **required** to take the Advanced Placement exam in Statistics.

Calculus - Part 1 & Part 2

Grades 11, 12; both semesters, .5 credit each

Prerequisite: Teacher recommendation; Successful completion of Algebra 2 or Pre-Calculus with a grade of A or B

Calculus is offered to scientific students - students desiring to continue their studies in the area of advanced mathematics or science. The first semester prepares students for the study of calculus by presenting such topics as polynomial and rational functions, exponential and logarithmic functions, limits, vectors, and trigonometry. The second semester is devoted to the development of differential calculus.

AP Calculus BC - Part 1 & Part 2

Grade 12; both semesters, .5 credit each

Prerequisite: Teacher recommendation; successful completion of Calculus with a grade of A or B

This course is designed for only those students desiring advanced placement ranking in a college mathematics program. Students are **required** to take the Advanced Placement exam in Calculus BC.

MEDIA PRODUCTION DEPARTMENT

Film Studies

Grades 9, 10, 11, 12; one semester, .5 credit

Prerequisite: none

To teach students the history, art, production, and business of films and technological aspects of producing film and media. Students will view and study modern and historical films from the 1920s-2022. We will discuss the artistic nature of film and its impact on the world. Students will also learn and study the basics of filmmaking.

***Requirement:** Additional class hours of at least 4 events worth of outside after school recordings and filmings per nine weeks is mandatory.

Digital Media & Film Productions

Grades 9, 10, 11, 12; both semesters, 1 credit

Prerequisite: none

Students will learn film studies, film history, and the art of filmmaking as well as basic video/media production, podcasting, and editing. Students will work individually and as a team to create short films, music videos, commercials, promotional videos, concert videos, recordings of school events, Project Mayhem concerts, JumboTron control at Spartan Stadium, introduction to drone piloting and filming, and sporting events. Students will be required to dress appropriately for on-camera interviews and/or productions and to participate in all aspects of production.

***Requirement:** Additional class hours of at least 6 events outside or after school recordings and filmings per nine weeks is mandatory.

Advanced Film Productions & Drone Piloting

Grades 10, 11, 12; both semesters, 1 credit

Prerequisite: Digital Media Productions/Digital Video Productions or News Media Journalism/Broadcast Journalism for at least 1 year

This fast-paced course will enable students to learn advanced video editing, sound design, and to work, both individually and as a team, to create, produce, and manage all aspects of production. This includes short films, BSTN Productions, interview segments, drone piloting, school and community films and recordings, as well as learning advanced critical thinking skills, film criticism, technical problem solving, graphics and animation design, green screen usage, cinematography, and advanced directing. This class will also be in charge of overseeing after school event filmings and organizing student run productions. Programs used: Davinci Ursa Cameras, Adobe Creative Suite, Premiere Pro, After effects, Tricaster, JVC and Panasonic Cameras, Allen and Heath Mixer.

***Requirement:** Additional class hours of at least 6 events worth of outside school recordings and filmings per nine weeks is mandatory.

Media, Content Creation, Podcasting & Intro to Drone Piloting

Grades 9, 10, 11, 12; both semesters, 1 credit

Prerequisite: Earn a grade of C or higher if previously taken

Students will produce media stories as well as work both individually and in teams to produce media, quiz shows, cooking shows, podcasts, documentaries, video programs, promotions, commercials, and live stream events that both support the community and the school system. Students will be required to dress appropriately for on-camera interviews or productions. Students are required to participate in all aspects of production, maintenance of equipment and organizing studio. Programs/Equipment used: Davinci Ursa Cameras, Adobe Creative Suite, Premiere Pro, After Effects, Tricaster, JVC and Panasonic Cameras, Allen and Heath Mixer, and DGI drones.

***Requirement:** Additional class projects include mandatory attendance at at least 4 events worth of outside after school recordings and filmings.

MUSIC DEPARTMENT

THE BOARDMAN CHORAL MUSIC DEPARTMENT

Mixed Chorus

Grade 9, both semesters, 1 credit

Prerequisite: All students must audition for faculty or be referred by their prior choral music teacher

The purpose of the chorus is to review music fundamentals and to further the enjoyment of singing by concentrating on developing the proper techniques for choral singing, sight singing, theory, and choreography.

Choir

Grades 10, 11, 12; both semesters, 1 credit

Prerequisite: Previous year's participation in a BHS choral group. All new students must audition for faculty. Class may be taken again with a grade of C or above.

Development of an outstanding singing voice, a serious attitude toward music, good note-reading ability, musicianship, and choreography are class objectives. All types of music from the various periods and styles will be performed.

Chorale

Grades 10, 11, 12; both semesters, 1 credit

Prerequisite: Choir or previous choral music experience; audition

A small group of approximately 24 voices comprise this group. Exceptionally talented students will be selected by audition for participation in a special performing Chorale. Numerous public performances are scheduled for this ensemble, along with competitions and trips. The choral literature is of a varied type such as pop, rock, spirituals, contemporary, classical, and masterpieces. Choreography is often used. Costume and travel expenses are assumed by the individual student.

Boardman Singers

Grades 10, 11, 12; both semesters, 1 credit

Prerequisite: Choir or previous choral music experience; audition

This is a small select ensemble of treble (female) voices. This group will provide opportunities for exceptionally talented students to have more demanding experiences, along with public performances, competition, and trips. It allows the individual musical proficiency necessary for membership in a small singing group. All types of music from the various periods and styles will be performed. Choreography is often used. Costume and travel expenses are assumed by the individual student.

Spartan Singers

Grades 9, 10, 11, 12; before and after school rehearsals, no credit

Prerequisite: none

Spartan Singers is an ensemble of men who like to sing and/or do not have room in their schedules to take another music class. The group rehearses eight Tuesdays before each concert after school until 4:00. Rehearsals may be extended to 4:30 closer to the concert date. They are also included in the December Elementary Performance Tour with the Chorale and Boardman Singers.

THE BOARDMAN BANDS

Varsity Band

Grades 9, 10, 11, 12; both semesters, 1 credit

Prerequisite: previous year's participation in Boardman or audition. Includes both marching and concert band

Spartan Marching Band - The Spartan Marching Band is the representative marching unit of the Instrumental Music Department. The Band performs at all regularly scheduled Varsity football games, and various other events including, but not limited to: band festivals, pep rallies, community parades and events, college and professional football games, and national parades and events. The educational goals of marching band focus on coordinating physical movement with music, showmanship and entertainment value, performance etiquette and stage presence, and professional and life skills. The Spartan Marching Band may have as many as 25 performances in a school year.

Extra-Curricular Marching Band - Available to some MCCTC and STEM Academy students ONLY. Students who are in good standing in the BGJHS Band or the BHS Band will be eligible to participate in the extra-curricular component of Boardman Band. These students must attend all scheduled summer band rehearsals and performances of the Spartan Marching Band. The students will not be eligible to audition for Spartan Sweethearts, Spartan Silks, Drum Major, Band Vocalist, Section Leader, or any other specialized leadership or auxiliary positions. These students can play in the percussion section but may not participate in extra Drumline activities. The students do not receive academic credit for this as it is extra-curricular.

This participation will likely necessitate some after school band rehearsals and such rehearsals will be mandatory for these students.

***SPECIAL NOTE:** A high standard of behavior and accountability is held for all Boardman Band students. Extra-curricular Marching Band members must be very cautious about their behavior because rule infractions can and will be handled by being removed from the group.

Concert Bands - Wind Ensemble and Symphonic Band begin rehearsing and performing at or just before the end of marching band/football season. Placement is determined by audition. Because the groups are smaller than the marching band, they offer students opportunities to explore instrumental music in greater depth and detail than in marching band. There are fewer performances for the concert bands than the marching band. The educational goals of the concert bands deal with individual musical achievement, refined knowledge of one's instrument, greater exploration of the elements of music, knowledge and appreciation of band literature, performance etiquette and stage presence, and basic music theory and history. The concert bands perform two evening concerts per year. Wind Ensemble also participates in the District Band Contest and Boardman's Memorial Day Ceremony each May.

Placement in Symphonic Band or Wind Ensemble is determined by audition. Audition requirements and music will be made available in September of each year. Recordings and/or live auditions will be due by a specified date and time in October.

Additional Band Ensembles

Many other smaller groups are formed out of marching and concert bands including but not limited to: Pep Band, BHS Drumline, Christmas Ensemble, Percussion Ensemble, Instrument Demo Groups, Brass Choir, Flute Choir, and many small instrumental ensembles.

THE BOARDMAN JAZZ ENSEMBLES

The jazz program is for students who desire training and experience in exploring and performing America's musical art form. The jazz ensembles perform at concerts in the school and in the community, and at high school and college jazz festivals. The educational goals of the jazz program include: appreciation of jazz history, theory, composers, performers, performance etiquette and stage presence, and various jazz styles. The program also encourages individual creativity via improvisation. Students should schedule an audition with the Band Director prior to requesting Jazz 1 or Jazz 2.

Jazz Ensemble 1

Grades 9, 10, 11, 12; both semesters, 1 credit

Prerequisite: Concurrent band membership; audition

Jazz Ensemble 1 is the top group at Boardman and one of the best high school jazz ensembles in the state. It is the group that has performed at numerous high-profile jazz venues including many well-known jazz clubs in the country. The group has performed with many famous jazz artists and groups. Jazz 1 plays mostly professional and college level music.

Jazz Ensemble 2

Grades 9, 10, 11, 12; both semesters, 1 credit

Prerequisite: Concurrent band membership; audition

Jazz Ensemble is the secondary jazz group with similar goals and activities as Jazz 1, but with fewer performances and medium-easy to medium-advanced level jazz literature.

2kxx

Grades 9, 10, 11, 12; after school, no credit

Prerequisite: Concurrent band membership; audition

2kxx is a pop/rock group that also serves as Boardman's basketball pep band. This after school ensemble is open to Jazz 1 and Jazz 2 students. Band students not enrolled in a jazz class may audition to get into the group. The group rehearses on Mondays and

Tuesdays from 3:00 to 4:00 PM. In addition to playing many home basketball games, 2kxx also plays at other school and community events.

Summer Jazz Ensemble

Grades 9, 10, 11, 12; after school/summer, no credit

Prerequisite: Jazz Ensemble 1 in the current school year

Summer Jazz Ensemble is basically Jazz Ensemble 1 but can include recent graduates of the program and incoming members of the band. Reviving much of the music played during the school year, the group plays three or four times a summer at local parks, events, and festivals.

THE BOARDMAN ORCHESTRAS

Classical Orchestra

Grades 9, 10, 11, 12; both semesters, 1 credit

Prerequisite: audition

The Boardman Classical Orchestra is a string only group, open to all qualified students as determined by audition. All freshmen string players entering Boardman High School are required to be members of this group unless, through audition, they are selected for Symphony Orchestra.

Chamber Orchestra

Advanced string players in grades 9, 10, 11, 12; both semesters, 1 credit

Prerequisite: Based on audition; weekly private lessons; membership in Symphony Orchestra

The Boardman Chamber Orchestra is open to advanced string players on violin, viola, cello and bass, as determined by audition. Concurrent membership in the Symphony Orchestra is required. The ensemble performs as a separate unit at all Symphony Orchestra Concerts and other scheduled department events.

Symphony Orchestra

Grades 9, 10, 11, 12; both semesters, 1 credit

Prerequisite: membership is based on annual audition; weekly private lessons

The Boardman Symphony Orchestra is open to all qualified students as determined by audition. The wealth of great orchestral music allows for a wide variety in programming. Major symphonic works from the eighteenth, nineteenth, and twentieth centuries are performed. Students, usually seniors, frequently are featured soloists. In addition to performing three community concerts each year, the orchestra performs at the OMEA state adjudicated orchestra event, a college invitational festival, and a national competition. Weekly private lessons, which incur additional cost, are a course requirement.

Project Mayhem

Grades 9, 10, 11, 12; after school, no credit

Prerequisite: Symphony Orchestra or audition

Project Mayhem is an after school electric orchestra for students that would like a rock experience. The group rehearses on Wednesdays after school from 3:00-5:30. Membership is based on audition and private lessons.

NON-PERFORMANCE MUSIC COURSES

Music Through the Ages

Grades 11, 12; one semesters, .5 credit

Prerequisite: none

This class will instruct students on how to listen to music while exploring how the world's music affects our lives through culture, arts, and movement.

American Lifetime Music

Grades 11, 12; one semesters, .5 credit

Prerequisite: none

This class explores how music is a part of our everyday life. It will concentrate on American music including Folk, Jazz, Musicals, Rock and Roll, and Movie music using technology, media, and instruments.

PHYSICAL EDUCATION & HEALTH DEPARTMENT

Courses are offered to meet the graduation requirement of two semesters of physical education and one semester of health.

Physical Education Grades 9, 10, 11, 12; one semester, .25 credit

Prerequisite: none

The physical education curriculum is designed to make a contribution to the personal fitness level of each student. The program will incorporate the five components of fitness as well as knowledge of rules and strategies in games and physical activities. Students select which activities they would like to participate in and learn more about as they are exposed to a variety of team and individual sports. Students must complete written assignments and physical assessments required by the state of Ohio in order to earn physical education credit.

Health Grades 9, 10; one semester, .5 credit

Prerequisite: none

The curriculum is aligned with the National Health Education Standards and the CDC's HECAT. Health Education is a skills-based curriculum and includes the following topics: Nutrition and Physical Activity, Emotional and Mental Health, Tobacco, Alcohol and Other Drug Prevention, Violence and Injury Prevention, CPR/AED Training, Abstinence, Personal and Sexual Health, and HIV, STI, and Pregnancy Prevention. In addition to comprehending concepts, the students will set age-appropriate performance indicators for seven essential health skills: Analyzing Influences, Accessing Information, Interpersonal Communication, Decision Making, Goal Setting, Practicing Health-Enhancing Behaviors, and Advocacy.

Fitness & Lifetime Sports Grades 11, 12; one semester, .5 credit

(CANNOT be counted in the 20 credits needed for graduation purposes)

Prerequisite: Grade B or higher in PE

This class will center around the multiple aspects of fitness and competitive lifetime sports. It will incorporate components of fitness, health, and nutrition as well as various lifetime activities that students can take with them after graduation. Students will be expected to log workouts, participate in competitive tournament game play, and dress daily to participate. Students are expected to complete written assignments and physical assessments that pertain to the content being covered throughout the semester. During the course of the semester, we will give students opportunities to create food logs to increase optimal performance and fitness levels. The importance of nutrition as it relates to fitness will be incorporated throughout.

Strength & Conditioning Grades 11, 12; one semester, .5 credit

(CANNOT be counted in the 20 credits needed for graduation purposes)

Prerequisite: Must complete 2 required PE courses or PE Waiver and Required Health class

Strength and conditioning is an elective course with an emphasis on strength training and physical conditioning to enhance sports fitness, as well as lifelong fitness. Individual goals, fitness, and weight programs are emphasized. The students will utilize weightlifting, speed training, plyometrics, and conditioning programs to improve their overall strength and fitness level. Students will learn proper techniques, safety procedures, and training methods in this class and apply knowledge to their own personal fitness. Activities may include any of the following: fitness activities, muscle endurance activities, muscle strength activities, speed and quickness development, agility, flexibility, power, and body composition; there will be testing on these activities.

Introduction to Sports Officiating Grades 10, 11, 12; one semester, .5 credit

(CANNOT be counted in the 20 credits needed for graduation purposes)

Prerequisite: none

This course is an elective that focuses on the professional philosophy, and professional requirements for officiating sports for athletic contests. This course is designed to enable students to acquire knowledge of sport rules and regulations, to develop skills in officiating selected sports. Students will be studying officiating while learning the rules, mechanics and fundamentals of sports. This class will offer the opportunity for student training and practical experiences in officiating sports and the knowledge and expertise necessary to officiate. In addition to learning the rules and mechanics of officiating, students will have the opportunity to demonstrate these learned skills. Students enrolled in this course will be required to officiate a variety of team sports. Upon completion of the course, students

will be afforded the option to take certification exams for any of the sport components and become a Class 3 certified official with the Ohio High School Athletic Association at the middle/junior high school level. Students must have a background in athletics or the passion to become more familiar with athletics and how supporting organized team sport competitions can contribute to individual and community health. **This course DOES NOT fulfill/replace the PE or Health course required for graduation. The purchase of a black “Fox 40” whistle is required.**

SCIENCE DEPARTMENT

The Science Department offers a variety of science courses designed to meet the needs of all students. Of the three science credits required for graduation, one credit must be in Life (Biological) Science and one credit must be in Physical Science. Students planning to major in a science-related field in college should take four years of science.

Recommended Science Sequence

<u>Grade</u>	<u>General Track Option</u>	<u>Advanced Track Option</u>
9	Biology	Honors Biology *must be taken if a student is to move to Chemistry, Honors Chemistry, or AP Biology as a sophomore. (Teacher recommendation)
10	Biology Honors Biology Physical Science	Chemistry, AP Biology, Anatomy & Physiology, Honors Chemistry
11	Chemistry, Environmental, Astronomy, Anatomy & Physiology, Oceanography, AP Biology, CCP Frontiers in Astronomy*, CCP 7 Ideas that Shook the Universe*	Physics, AP Biology, AP Chemistry, Environmental*, AP Environmental, Astronomy*, Oceanography*, Anatomy and Physiology, CCP Frontiers in Astronomy*, CCP 7 Ideas that Shook the Universe*
12	Physics, Oceanography, Astronomy, Environmental, AP Chemistry, AP Biology, AP Environmental, Anatomy and Physiology, CCP Frontiers Astronomy*, CCP 7 Ideas that Shook the Universe*	Physics, AP Biology, AP Chemistry, Environmental*, AP Environmental, Astronomy*, Oceanography*, Anatomy and Physiology, CCP Frontiers in Astronomy*, CCP 7 Ideas that Shook the Universe*

*Environmental Science, Astronomy, Oceanography, Principles of Robotics, CCP Frontiers in Astronomy, and CCP 7 Ideas that Shook the Universe may be taken as electives in addition to core science classes.

Biology
(life/biological science)

Grades 9, 10; both semesters, 1 credit
Prerequisite: none

This course represents the traditional approach to the study of biology with particular emphasis on characteristics and structures of life, heredity, the diversity and interdependence of life, evolutionary theory, and the historical development of scientific theories. Laboratory experimentation and direct observation are integral parts of the course work.

Honors Biology
(life/biological science)

Grades 9, 10; both semesters, 1 credit
Prerequisite: Counselor recommendation; Algebra 1 or Honors concurrently

Honors Biology is a rigorous look at the major concepts of biology. Biochemistry-cell structure and function, evolution, microbiology, genetics, and human body systems are intensely studied. Incorporating the study of biology into students' lives is our main goal. Genetic engineering, medical technologies, forensics, disease control, and global and agricultural management will be presented as exciting and achievable fields for our students to pursue. Lab work is an integral part of the course. Microscopy, dissection, and use of technology are all incorporated.

Physical Science
(physical science)

Grade 10; both semesters, 1 credit
Prerequisite: Biology

This course enables students to develop an understanding of physical science concepts by teaching them to observe, measure, record, and evaluate data relevant to volume, mass, density, light, heat, and chemical reactions. The course content will include the study of matter and basic chemistry, energy and waves, forces and motion, and the universe.

Anatomy and Physiology
(life/biological science)

Grades 10, 11, 12; both semesters, 1 credit
Prerequisite: Biology with a grade of A or B

Anatomy and Physiology is intended to be the equivalent of an introductory college course. Anatomy and Physiology is a yearlong science course designed to prepare students for college biological science courses and for careers in the biological sciences, especially those in health and medical fields. It is also especially relevant to student athletes and other students who are particularly interested in learning about the human body, how it works, and how to take care of it. Course content focuses on body tissue, human organ systems and their major processes, and current health issues. There are many diverse classes, laboratories, and research activities that enhance students' understanding of course concepts, develop students' analytical and critical thinking skills, promote student inquiry, and build students' scientific skills and processes. The fetal pig is dissected. This dissection is an integral part of the course and a course requirement.

*Students who have taken Advanced or Honors Biology and Anatomy and Physiology may not schedule Physical Science as their physical science requirement. ***These students must earn a physical science credit in chemistry or physics.***

AP Biology
(life/biological science)

Grades 10*, 11, 12; both semesters, 1 credit
Prerequisite: Advanced/Honors Biology with a grade of A or B; completed Geometry CP or be currently enrolled in Geometry A.

This is a college level biology course. It is designed for only those students desiring advanced placement ranking in a college biology program. The outline prepared by the College Entrance Examination Board is followed. Major content areas include: cells and molecules, heredity and evolution, and organisms and populations. The standard AP Biology laboratory component is included, along with a limited dissection of the fetal pig. Students are **required** to take the Advanced Placement test in order to receive credit for the course.

*It is recommended that sophomores take chemistry concurrently. Students who have taken Advanced Biology and AP Biology may not schedule Physical Science as their physical science requirement. ***These students must earn a physical science credit in chemistry or physics.***

Astronomy
(physical science)

Grade 11, 12; one semester, .5 credit
Prerequisite: Earned 1 credit of life/biological science and 1 credit of a physical science; successfully completed Algebra 1

This course will explore the universe and our place within it. Units covered will include the history of astronomy, the solar system, stars, galaxies and cosmology. This course will investigate the current research including spectroscopic analysis and the evidence for an expanding universe. Major constellations, with their associated stars and mythologies, will also be described throughout the semester. Instruction will be project-based and primarily led via teacher/student collaboration and inquiry, along with a computer component in the laboratory, when appropriate

CCP Frontiers in Astronomy & Lab
(physical science)

Grade 11, 12; one semester, 1 credit (BHS), 4 semester hours (KSU)
Prerequisite: Must follow the CCP process through BHS Counseling and KSU

The objective of this course is to cover the basic ideas of Astronomy and the history of the origin of these concepts. This course focuses on Astronomical ideas and theories and is basically nonmathematical. Upon completion of this course, students will be able to describe the major theories of Astronomy and apply these concepts to the understanding of celestial objects. Students will develop an understanding of models of the solar system, stars, galaxies, and the universe as well as be able to identify objects in the night sky. Students will have the opportunity to operate telescopes during night sky observations in addition to learning about planetarium operation. This course counts as an honors course, and for 3 college credit hours from Kent State University.

The lab is taken concurrently with CCP Frontiers in Astronomy during the same class time. Although It doesn't count for any additional high school credit, it does count for 1 college credit hour from Kent State University. The lab applies concepts learned during the course. Concepts include but are not limited to the Celestial Sphere, Optics, Spectroscopy, Solar Astronomy, Star Clusters, CMD

morphology, and Galactic Structure. Students will investigate concepts using various hands-on equipment, software, internet resources, and student / instructor generated images.

Environmental Science
(life/biological science)

Grades 11, 12; one semester, .5 credit

Prerequisite: Earned 1 credit of life/biological science and 1 credit of a physical science

This course is an interdisciplinary science that includes biology, chemistry, physics, and physical geology, as they are related to the environment. Students will investigate the principles of ecology and explore relationships between people and their environment. The course will include laboratory work, field work, and virtual laboratory experiences.

Oceanography
(physical science)

Grades 11, 12; one semester, .5 credit

Prerequisite: Earned 1 credit of life/biological science and 1 credit of a physical science

Oceanography is an interdisciplinary science that includes geography, geology, biology, chemistry, physics, astronomy, and environmental science as they relate to the ocean. It also incorporates human impacts on the ocean and marine organisms.

Principles of Robotics
(physical science)

Grades 9, 10, 11, 12, one semester, .5 credit

Prerequisite: none

This course will expose students to key engineering concepts and will offer exploration in robotics and programming. Students will use their understanding of mechanical design, robotics, and programming to work collaboratively to develop solutions to real-world problems. Students will learn concepts such as programming, using and applying sensors, and artificial intelligence.

Chemistry
(physical science)

Grades 10, 11, 12; both semesters, 1 credit

Prerequisite: Biology; completed Geometry CP or be currently enrolled in Geometry A

This course presents a comprehensive investigation of modern chemistry. Concepts and principles are integrated with an extensive laboratory program. A minimum course requirement is to attain a passing grade on the Balancing Equation Test. Failure to meet this requirement will result in an F for the course.

Honors Chemistry
(physical science)

Grades 10, 11, 12; both semesters, 1 credit

Prerequisite: Advanced Biology with a grade of A or B; or Biology with a grade of A **and** teacher recommendation: Must be currently enrolled in Geometry A, Algebra 2 CP, or Calculus.

This course presents a comprehensive investigation of Modern Chemistry. It will move at a faster pace and at a more challenging level than general Chemistry. A passing grade on the Balancing Equation Test is required to receive course credit. Students considering AP Chemistry are encouraged to take Chemistry Honors.

AP Chemistry
(physical science)

Grades 11, 12; both semesters, 1 credit

Prerequisite: Honors Chemistry with a grade of A or B; or Chemistry with a grade of A **and** teacher recommendation. Must have completed either Geometry A or Algebra 2 CP prior to enrollment.

The AP Chemistry course provides students with a college-level foundation to support future advanced coursework in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore topics such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium. Created by the AP Chemistry Development Committee, the course curriculum is compatible with many chemistry courses in colleges and universities. All students are **required** to take the Chemistry Advanced Placement test.

Physics
(physical science)

Grades 11, 12; both semesters, 1 credit
Prerequisite: enrolled in or have completed Algebra 2

Physics is designed for pre-university students. This course will cover Kinematics, Dynamics, Work and Energy, Rotational Motion, Statics, Mechanical Advantage, Harmonic Motion, Sound, Optics, Electricity, some Magnetism, and Circuit Theory. Some Modern Physics topics will be covered as time permits. Extensive laboratory work is included.

- It is highly recommended that you take high school physics if you plan on majoring in a STEM program at a university.
- It should also be noted that taking high school physics or its algebra based equivalent at a university after you graduate is often a prerequisite in order to take calculus based physics at a university.

CCP 7 Ideas That Shook the Universe
(physical science)

Grade 11, 12; one semester, 1 credit (BHS), 3 semester hours (KSU)
Prerequisite: Must follow the CCP process through BHS Counseling and KSU

The objective of this course is to cover the basic ideas of Physics and the history of the origin of these concepts. This course focuses on Physics ideas and theories and is basically non-mathematical. It is intended for students who do not plan on majoring in a STEM field and is not a substitute for Physics. This course counts as an honors course, and for 3 credit hours of college credit from Kent State University.

AP Environmental Science
(life/biological science)

Grades 11, 12; both semesters, 1 credit
Prerequisite: Biology and Chemistry with a grade of A or B; completed Geometry

The AP Environmental Science course is the equivalent of a one-semester, introductory college course in environmental science, through which students engage with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary-embracing topics from geology, biology, environmental studies, earth science, chemistry, and geography. All students are **required** to take the Environmental Science Advanced Placement Test.

SOCIAL STUDIES DEPARTMENT

The Social Studies Department offers a variety of courses designed to meet the needs of all students. Three credits are required, which must include World History, American History, and American Government. Other courses are available as electives but do not help fulfill the three-credit requirement.

Recommended Social Studies Sequence

<u>Grade 09</u>	<u>Grade 10</u>	<u>Grade 11</u>	<u>Grade 12</u>
World History	U.S. History	Government	
Honors World History	AP US History	AP Government	
		Electives: AP Human Geography AP Psychology Psychology Sociology American Influencer	Electives: AP Human Geography AP Psychology Psychology Sociology American Influencer

World History

Grade 9; both semesters, 1 credit

Prerequisite: none

This survey course is a requirement for freshmen. Topics include the Enlightenment, Industrialization, Imperialism, the World Wars, Fascism, Totalitarianism, the Cold War, and modern world issues. The approach of this course is both chronological and conceptual.

Honors World History

Grade 9; both semesters, 1 credit

Prerequisite: Teacher or counselor recommendation

This course is offered at the honors level for those with an interest in history or desiring a more rigorous learning experience. The honors course will move at an accelerated rate and present students with more depth about the individuals, events, conflicts, and forces that have shaped world history. Students enrolling in the honors section should expect out of class readings, assignments, and projects with an emphasis on critical thinking, reading, and writing skills.

United States History

Grade 10; both semesters, 1 credit

Prerequisite: Successful completion of World History

This survey course is a requirement for sophomores. Students will explore twentieth century America from Industrialization to present day. Topics include Progressivism, the Great Depression, the New Deal, the home-front during both World Wars, Cold War America, the Civil Rights Movement, and the Vietnam conflict.

AP United States History

Grade 10, 11, 12; both semesters, 1 credit

Prerequisite: Teacher recommendation; successful completion of World History with an A or B

This course is a chronological and thematic survey course in the United States covering the time period from the Colonial Era (1491) to contemporary America (2012). The ultimate goal of this course is to provide a college-level experience in preparation for the AP Exam. Throughout this course students will engage in primary source document analysis, traditional textbook and outside readings, a variety of classroom activities, and critical, analytical and interpretative writing assignments. These lessons will encourage students to think

conceptually about the American past and to focus on historical change over time. While this course will be rigorous, through hard work, dedication and collaborative efforts it will also be enjoyable and extremely rewarding. Students are **required** to take the Advanced Placement Test in order to receive credit for the course.

American Government

Grade 11; both semesters, 1 credit

Prerequisite: Successful completions of US History

Government is part of the required social studies curriculum. This course will focus on American government at all levels and include an examination of the Constitution, Bill of Rights, three branches of government, law-making process, and state and local government. Students will also cover the topic of Economics. Students will be encouraged to develop citizenship skills and make connections between concepts in class and current events in America.

AP American Government

Grade 11; both semesters, 1 credit

Prerequisite: Teacher recommendation; successful completion of US History with a grade of A or B

AP American Government is a college level course that examines the institutions of the U.S. Government and political systems. This course focuses on interconnections between the three branches of the federal government, local-state-national linkages, and the ways in which people impact the democratic process. Special attention is given to the Constitution, foundational documents, significant Supreme Court cases, political parties, elections, special interest groups, and the state governments. Students will also cover the topic of Economics. Topics will be presented via several instructional methods including textbooks, current events, guest speakers, discussions, presentations, and interactive simulations. The students will be required to complete an independent study project and should expect a large amount of out-of-class reading and writing. This course is recommended for any student who wants to learn more about political science and is especially recommended for students considering a career in law, politics, or public service. Students are **required** to take the Advanced Placement Test in order to receive credit for the course.

Psychology

Grades 11, 12; one semester, .5 credit

Prerequisite: none

Psychology is the study of human behavior. This course teaches students to understand their own patterns of action, various methods of learning, ways of solving problems, and approaches to good mental health. Topics covered include: basic principles of psychology, psychological methods, the body and mind, learning and cognition, development, personality, and health and adjustment. This course also attempts to help students apply psychological approaches into their everyday lives.

AP Psychology

Grade 11, 12; both semesters, 1 credit

Prerequisite: Teacher recommendation; successful completion of US History with a grade of A or B

Psychology is available for one full credit at the AP level. This course will study human behavior and teaches students to understand their own patterns of action, various methods of learning, ways of solving problems, and approaches to good mental health. Topics covered include theories of psychology, psychological research methods, biology of brain and body, sensation and perception, consciousness, learning and cognition, development, personality, intelligence, psychological disorders and treatments, and social psychology. Students registering for this class will receive content comparable to a college-level introduction to psychology course. This is a rigorous course and is recommended for college-bound students considering a career in psychology, education, or counseling. Students are **required** to take the Advanced Placement Test in order to receive credit for the course.

Sociology

Grades 11, 12; one semester, .5 credit

Prerequisite: none

Sociology is the scientific study of human social behavior. Topics discussed throughout the course include sociological perspectives, culture, social structures and institutions, agents of socialization during childhood, adolescence, and adulthood, deviance, crime and social control, racial and social inequality, gender, age and health, and science and mass media.

AP Human Geography

Grade 11, 12; both semesters, 1 credit

Prerequisite: Teacher recommendation; successful completion of US History with a grade of A or B

AP Human Geography is a course designed to provide students with a learning experience equivalent to that of a college course in Human Geography. This course will include the systematic study of geographic patterns and processes that have shaped human understanding. Students are **required** to take the Advanced Placement Test in order to receive credit for the course.

History of American Influencers Grade 11, 12; one semester, .5 credit
Prerequisite: none

The History of American Influencers” is a semester-long Social Studies elective that will focus on historical and contemporary influencers in America. This course investigates the people surrounding the important events, movements, and significant changes in America. The course will be centered around a research-based learning approach. Students will be required to use a variety of primary and secondary sources to create student-led discussions, presentations, debates, and group activities. It will teach students how to gather accurate information and present it effectively to their peers. Students must be willing to dive into credible sources, collect information and data, analyze relevance (past and present), and create authentic displays of their work for peer presentations.

WORLD LANGUAGE DEPARTMENT

A four-year sequence of two world languages is offered by the World Language Department. All courses are designed to meet the personal, career, or university needs of high school students. College prep students should take a minimum of two years of one world language. In many cases, a four-year study of a world language in high school may waive the college language requirement.

Italian 1 Grades 9, 10, 11; both semesters, 1 credit
Prerequisite: none

The primary aim of Italian 1 is to provide students with a sound basis for learning Italian as it is written and spoken today. The course focuses on the development of the four primary language skills: speaking, understanding, reading, and writing.

Italian 2 Grades 10, 11, 12; both semesters, 1 credit
Prerequisite: Successful completion of Italian 1

This course will continue the development of the four primary skills emphasized in Italian 1.

Italian 3 Grades 11, 12, both semesters, 1 credit
Prerequisite: Successful completion of Italian 2

This course continues the development of vocabulary and grammar at an advanced level. Students will focus on communicating verbally and through written work.

Honors Italian 4 Grade 12; both semesters, 1 credit
Prerequisite: Successful completion of Italian 3

In this course, a play or classic will be read along with contemporary literature. Selections will be discussed, and critiques will be written in Italian. Original compositions on relevant topics will also be written. Further expansion of the ability to understand as well as produce a more complex level of oral and written discourse is emphasized.

Spanish 1 Grades 9, 10, 11; both semesters, 1 credit
Prerequisite: none

The primary aim of Spanish 1 is to provide students with a sound basis for learning Spanish as it is written and spoken today. The course focuses on the development of the four primary language skills: speaking, understanding, reading, and writing.

Spanish 2 Grades 10, 11, 12; both semesters, 1 credit
Prerequisite: Successful completion of Spanish 1

This course continues the development of the four primary skills emphasized in Spanish 1.

Spanish 3 Grades 11, 12; both semesters, 1 credit
Prerequisite: Successful completion of Spanish 2

Spanish 3 is a course in which the primary skills are expanded to such a degree that by the end of the year most students will be able to communicate verbally with native speakers of Spanish and will be able to read, with relative ease, newspapers, magazines, and contemporary literature written in Spanish.

Honors Spanish 4 Grade 12; both semesters, 1 credit
Prerequisite: Successful completion of Spanish 3

The format of the Spanish 4 Honors course is essentially the same as that for Spanish 3, but the literature to be read and discussed is more extensive and advanced.