MILLER HIGH SCHOOL

COURSE REGISTRATION HANDBOOK

2026-2027

It is important to read these pages before you start your registration. Students and parents/guardians should take extreme care choosing classes. The selection of courses should reflect the future goals and abilities of the student. The decisions about the selection of courses will be the responsibility of the student and his/her parents/guardians. The courses listed are offerings. If there are not enough students enrolled in a course it may then be dropped from the list of course offerings.

For the MHS Classes of 2018 and beyond all students will be required to complete 21 credits to graduate and will be responsible for the Ohio Core Curriculum.

A student may receive a regular diploma if they meet local and state requirements, including state testing requirements for their graduating class. Students may receive an Honors Diploma for taking more rigorous course loads. For more information on these, see your School Counselor or check the Ohio Department of Education and Workforce page.

GRADUATION REQUIREMENTS

Course	**Credits**
English	4 credits
Mathematics *1	4 credits
Social Studies *4	3 credits
Science *3	3 credits
Health	½ credit
Physical Education *2	½ credit
Fine Art *6	1 credit
Financial Literacy	½ credit
Electives *5	5 credits

***1** Mathematics units must include 1 unit of algebra 2 or the equivalent of algebra 2.

***2** The Ohio Core allows school districts to adopt a policy that would exempt students who participate in interscholastic athletics, band or cheerleading for two full seasons from the physical education requirement. Students must take another course of at least 60 contact hours in its place.

***3** Science units must include 1 unit of physical sciences, 1 unit of life sciences and 1 unit of advanced study in one or more of the following sciences: chemistry, physics, or other physical science; advanced biology or other life science; astronomy, physical geology, or other earth or space science.

***4** Social studies units must include ½ unit of World History, ½ unit of US History and ½ unit of US Government.

***5** Electives units must include one or any combination of foreign 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.

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

In addition to the core requirements students will be required to complete the following:

OHIO'S GRADUATION REQUIREMENTS

CLASS OF 2023 AND BEYOND

Ohio's long-term graduation requirements take effect for the class of 2023. For students entering ninth grade on or after July 1, 2019, Ohio's new high school graduation requirements provide more flexibility to choose a graduation pathway that builds on a student's strengths and passions – one that ensures students are ready for their next steps after high school. Students in the classes of 2018 through 2022 may also use these requirements as a pathway to graduation.

As a part of this pathway to graduation, students must show that they have completed all three parts of these requirements.

1. Credit Requirements:

Students must earn a minimum total of 20 credits in specified subjects and take your required tests. Schools can locally require more than 20 credits. Schools are still required to administer all the high school end-of-course assessments. These are: English Language Arts II, Algebra I (or Integrated Math I), Geometry (or Integrated Math II), Biology, American History, and American Government.

2. Competency:

Students can demonstrate competency by earning a passing score on Ohio's high school Algebra I (or Integrated Math I) and English language arts II tests. Students who do not pass the test will be offered additional support and must retake the test at least once. If students have not met the competency score on these tests, there are four additional ways to show competency.

Option 1	Option 2	Option 3	Option 4	Option 5
Algebra I and ELA II	Career Readiness	College Credit Plus	Military Enlistment	ACT or SAT

Refer to the back of this page for a brief discription of each option.

Option 1. To demonstrate competency using Ohio's state tests, students must earn a score of 684 or above on both the Algebra I (or Integrated Math I) and English language arts II end-of-course exams.

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

- Foundational options: 1. Cumulative score of proficient on 3 or more WebXams. 2. Earn 12-points of industry credential. 3. Complete a registered pre-apprenticeship, an apprenticeship, or show evidence of acceptance into an approved apprenticeship. 4. State-issued license for a practice in a vocation.

- Supporting options: 1. Work-Based Learning. 2. Earn the workforce readiness score on the Workkeys. 3. Earn the OhioMeansJobs Readiness Seal

Option 3. To demonstrate competency through the College Credit Plus Program, students must earn credit in a non-remedial math or English course for the subject area not passed.

Option 4. To demonstrate competency through Military Enlistment, students must provide evidence of enlistment in a branch of the armed forces to demonstrate competency.

Option 5. To demonstrate competency using the ACT or SAT, students must obtain a remediation-free score in the math and/or English subject area on the ACT or SAT. To demonstrate competency in English, a student must be remediation-free in the subjects of English and reading on the ACT or SAT.

3. Readiness:

Students can meet the readiness requirement by earning two diploma seals. In alignment with their graduation plan, students should be choosing seals that align with their goals and interests. These seals give students the chance to demonstrate academic, technical and professional skills and knowledge that align to their passions, interests and their post-high school pathway.

Of the two seals students are required to earn, at least one of the two must be State-Defined. Ohio's 12 diploma seals are:

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

Want to learn more?

Contact your school counselor or visit education.ohio.gov/graduation

GRADE LEVEL COURSE RECOMMENDATIONS

Freshman Recommendations:	**Sophomore Recommendations:**	**Junior Recommendations:**	**Senior Recommendations:**
English 1 Algebra 1 World History Physical Science PE Health Fine Art Electives	English 2 Geometry Biology US History Fine Art Electives	English 3 or AP Literature Algebra 2 or College Algebra Chemistry or Environmental Science US Government Electives	English 4 or English Composition Financial Literacy Statistics, Pre-Calculus, or Calculus Physics, Human Body, or Chemistry Electives

*Any student that plans to go to the vocational school, please indicate that choice on the course registration form.
**Any student that plans to participate in College Credit Plus, please indicate that choice on the course registration form.

CLASS CHANGES

Students will be given the opportunity to select courses during the spring semester. They should carefully select the courses that will best meet their academic and career goals. They are encouraged to take classes that will challenge and stimulate growth. They are required to consult with their teachers and parents/guardians to ensure that the proper placements have been selected. Each student will also have the opportunity for an individual conference with the school counselor to review and confirm that the course selections will meet their goal to graduate from high school and prepare them for their post-secondary goals. Parents/guardians are welcome to request to meet with the counselor during this conference. Students will receive their scheduling information over the summer via Infinite Campus or request for a mailed copy. After receiving their schedule, students will have the opportunity to request a schedule/class change before the first day of school. Any changes after the start of the school year will require a meeting with the school counselor, a class change request form with teacher signatures, and parent/guardian approval. All schedules must be finalized 10 days after the start of the school year. If it is absolutely necessary to drop a class after the first 10 days of the school year, the student will receive a WF (withdrawal fail) in the class, which will be posted to the student's transcript, affecting GPA and sport eligibility. Class changes will be given individual consideration, and decisions will be based on school policy and the best interest of the student's academic progress. When a student withdraws from a class, the withdrawal cannot result in a student having less than 5 credits towards graduation.

TRI-COUNTY CAREER CENTER

Students have the option of attending Tri-County Career Center throughout their junior and senior years. Students remain Miller High School students, but attend the Career Center to gain access to fields they are interested in studying. The diploma comes from Miller High School, and students are still eligible to participate in all Miller High School extra-curricular activities. All students have the opportunity to visit the Career Center in the fall of their eighth grade year, and again in their sophomore year. The application process will begin their sophomore year.

At Tri-County, students receive extensive training in a selected program for half of the day. The other half of the day students take their academic courses. All junior and senior academic courses required for graduation from Miller High School are offered at Tri-County, and various levels are offered to meet the needs of students. Upon graduation, students are prepared to continue their education if desired, enter the skilled workforce, or enter the military.

To be accepted to Tri-County Career Center, students must have a total of 10 credits at the end of the sophomore year. These credits should include 2 English, 2 Math, 2 Science, 2 Social Studies, 1/2 Physical Education, 1 Fine Arts and 1/2 Health. Students lacking academic credit will have to complete these courses; which might involve summer school, after school, and/or online coursework.
Programs of Study—visit the web page for more information for each program:
www.tricounty.cc

COLLEGE CREDIT PLUS

College Credit Plus provides students with the opportunity to take college classes offered by any Ohio public college or university, or from any participating private postsecondary institution, at their high school, on the college or university campus, or online. The program allows students to explore college interests sooner and to earn college credits toward a degree before graduating from high school. It is free to families when students take courses offered by Ohio public colleges and universities.

Students are required to attend an informational meeting before they apply. They must then notify their principal of their interest to participate by April 1 or November 1 for spring only courses. See the school counselor for the Letter of Intent form and other necessary information.

Please note: Student athletes must also ensure that the courses they select meet the athletic participation qualifications according to the OHSAA calculations. Students must conference with the high school counselor if any changes are made to the student's schedule after the semester has started. The high school counselor will review the changes to ensure that the student meets the required number of credits.

COLLEGE PREPARATION PROGRAM RECOMMENDATIONS BY GRADE

Grade 9
Recommended: English 1 (H), Physical Science (H), Algebra 1 (H), World Studies (H), PE/Health, Foreign Language, Fine Art

Grade 10
Recommended: English 2 (H), Biology (H), Geometry (H), US History (H), PE/Health, Foreign Language, Fine Art

Grade 11
Recommended: AP Literature, Chemistry and/or Human Body, College Algebra, Government (H), Foreign Language

Grade 12
Recommended: English Composition, Financial Literacy, Pre-Calculus, Foreign Language, Human Body and/or Physics

WEIGHTED COURSES

In grades 9-12 a weighted grading scale is used. A new scale will be used beginning the 2020-2021 school year. Grades calculated prior to the 2020-2021 school year will reflect the previous grading scale used through the 2019-2020 school year. All grades calculated beginning the 2020-2021 school year will reflect the new weighted grading scale shown here. If you have questions about how these changes impact your student and their course choices, please contact the school counselor.

Letter	Percent Range	Standard	Honors	CCP/ AP/ Accelerated
A	100-94	4.00	4.50	5.00
A-	93-90	3.67	4.17	4.67
B+	89-87	3.33	3.83	4.33
B	86-83	3.00	3.50	4.00
B-	82-80	2.67	3.17	3.67
C+	79-77	2.33	2.83	3.33
C	76-73	2.00	2.50	3.00
C-	72-70	1.67	2.17	2.67
D+	69-67	1.33	1.83	2.33
D	66-63	1.00	1.50	2.00
D-	62-60	0.67	1.17	1.67
F	59-0	0.00	0.00	0.00

CORE COURSE DESCRIPTIONS

ENGLISH/LANGUAGE ARTS

(1110) ENGLISH 1 (Graduation requirement) 1 credit

Prerequisite: None
Description: This course is a graduation requirement designed for ninth grade students. Through the study of novels, short stories, essays, drama, and poetry, students will comprehend different literary elements and how they impact these different types of literature. Students will improve their writing skills through many different writing assignments, and will develop speaking skills through oral presentations and speeches. While the overall focus of this class will be to develop better English skills and knowledge, an emphasis will also be placed on gaining a greater appreciation of the English language.

(1111) Honors ENGLISH 1 (Graduation requirement) 1 credit/4.5 scale

Prerequisite: Teacher Recommendation
Description: This course is a graduation requirement designed for ninth grade students on the college preparatory track. Through the study of novels, short stories, essays, drama, and poetry, students will comprehend different literary elements and how they impact these different types of literature. Students will improve their writing skills through many different writing assignments, and will develop speaking skills through oral presentations and speeches. While the overall focus of this class will be to develop better English skills and knowledge, an emphasis will also be placed on gaining a greater appreciation of the English language.

(1120) ENGLISH 2 (Graduation requirement) 1 credit

Prerequisite: English 1
Description: The course is a graduation requirement designed for tenth grade students. The course will focus on the improvement of critical reading and writing skills. Students will read material with special attention to theme, character analysis, irony, symbolism, imagery, foreshadowing, personification and other literary techniques. The student will then build skills in writing while focusing on appropriate sentence and paragraph construction. Students will complete a short formal report. The course will also include materials for career preparation.

(1121) Honors ENGLISH 2 (Graduation requirement) 1 credit/4.5 scale

Prerequisite: English 1 Honors/Teacher Recommendation
Description: This course is a graduation requirement designed for tenth grade students on the college preparatory tract. The course will focus on the improvement of critical reading and writing skills. Students will read material with special attention to theme, character analysis, irony, symbolism, imagery, foreshadowing, personification and other literary techniques. The student will then build skills in writing while focusing on appropriate sentence and paragraph construction. The course will also include materials for career preparation. The college prep class will be more challenging, accelerated and demanding.

(1130) ENGLISH 3 (Graduation requirement) 1 Credit

Prerequisite: English 2
Description: This course is a graduation requirement for eleventh grade students. The course will focus on American Literature. Students will read and study the structural, historical, and thematic qualities from various American short stories and poetry, as well as a novel. Students will expand upon sentence development, including vocabulary and usage. Students will be required to write various compositions, make oral reports, and complete a short research paper. Students will also continue to work on career preparation.

(1142AP) AP LITERATURE & COMPOSITION (Meets graduation requirement/In place of English 3 Honors)

1 credit/5.0 scale

Prerequisite: English 3 Honors or AP Language & Composition/Teacher Recommendation (Suggested grade average of A/B in prior English Honors Courses)
Description: AP English Literature and Composition focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods. Students will read, write and discuss poetry, fiction, and drama at an advanced college level while using online resources to develop skills including sophisticated use of literary elements and terminology, close readings of various texts, creating, drafting, and editing college-level analytical essays, preparing and writing timed essays, and advanced use and mastery of standard English. This course also prepares students for the Advanced Placement Literature and Composition Exam administered each May. A signed contract and a $40 refundable deposit are required for the course. **ADDITIONAL NOTE:** A summer reading assignment will be given to students registered for the course using Google Classroom.

(1140) ENGLISH 4 (Graduation requirement) 1 credit

Prerequisite: English 3
Description: This course is a graduation requirement designed for twelfth graders to provide students with the communication tools they will need for success in college/trade school or on a job and for skills that they will use in everyday life. It will provide a broad, thorough training necessary to help students' competence in each of the communication skills: reading, writing, listening, and speaking. Some of the areas that may be covered will be work force related. This class is for the student who is not following the college prep program. Students will prepare state mandated career objectives.

(1146CCP) CCP ENGLISH COMPOSITION 1 (Semester Elective must take ENGLISH COMPOSITION 2)

1 credit/5.0 scale

Or **(1146) ENGLISH COMPOSITION (Not CCP, does not have to meet CCP requirements)**

Prerequisite: Teacher recommendation/ Meets CCP requirements and score for ACT and/or Accuplacer assessments.
Description: The course will focus on developing skills in college-level writing, reading, communication, and critical thinking. Writing is a process, and your writing can be refined and improved with practice. In this course, you will write a minimum of 20 pages of formal revised essays, as well as additional directed writing, including response, analysis and critique of various assigned texts, and use of MLA style. In addition, you will collaborate with peers to develop your ideas, create drafts and revisions of your essays, and extend your ability to craft persuasive arguments by presenting and documenting credible secondary material in support of your position.

(1147CCP) CCP COLLEGE WRITING 2 (Semester Elective) 1 credit/5.0 scale
Or **(1147) COLLEGE WRITING 2 (Not CCP, does not have to meet CCP requirements)**

Prerequisite: Teacher recommendation/ Meets CCP requirements and score for ACT and/or Accuplacer assessments.
Description: College Writing 2 continues the essay writing curriculum developed in College Writing 1 but adds the requirement to incorporate research from source materials and document it in APA style. The emphasis will be on academic and scholarly research including the reading and analysis of academic journals, news sources, and online databases. Students will write essays of increasing complexity over the course of the semester, culminating with a documented research essay. The focus of this course will be to explore and analyze issues relevant to our society and culture today. Students will read a number of essays, articles, etc. pertaining to issues that directly or indirectly affect contemporary life.

MATHEMATICS

(1210) ALGEBRA 1 (Graduation Requirement) 1 credit

Prerequisites: None
Description: This course is a graduation requirement designed for ninth grade students. This course emphasizes logical organization and the processes behind the student's work. Major topics are sets, variables, open sentences, negative numbers, equations, inequalities, problem solving, polynomials, factoring, fractions and graphs

(1211) Honors ALGEBRA 1 (Graduation Requirement) 1 credit/4.5 scale
Prerequisite: Teacher Recommendation and satisfactory score on placement pre-assessment
Description: This is the first course in the college preparatory curriculum for mathematics. Knowledge of algebra is basic to the study of geometry, trigonometry, and calculus. Algebra 1 H is a fast-paced course of study using one and two variables in standard computations and in problem solving. This course will challenge students to work and study independently.

(1220) GEOMETRY 1 credit

Prerequisite: Algebra 1
Description: This is a required math course for graduation. Students will be looking at geometric relationships between figures and study geometric applications. Topics covered include properties of triangles, properties of quadrilaterals, right triangle trigonometry, coordinate geometry, area and volume, and review of algebraic concepts. This course is vocabulary driven and relies on the student's ability to create and solve algebraic equations based on the geometry concepts.

(1221) Honors GEOMETRY 1 credit/4.5 scale

Prerequisite: Algebra 1 H/Teacher Recommendation
Description: This course is a math graduation requirement designed for tenth grade students on the college preparatory track. The course has the same basic content as the regular Geometry class with more in depth coverage and a few additional topics covered. Students will be expected to work with geometric proofs and logical statement concepts. This course will work at a more advanced pace and less review time will be provided for prior concepts Basic trigonometry functions are also introduced.

(1230) ALGEBRA 2 (Graduation Requirement) 1 credit

Prerequisites: Successful completion of Algebra 1 and Geometry
Description: This course is a math graduation requirement for the class of 2014 and beyond designed for eleventh grade students. This course extends the topics first seen in Algebra I and provides advanced skills in algebraic operations. Additionally, linear and quadratic functions and relations, conic sections, exponential and logarithmic functions, graphing, and sequences and series will be explored.

(1231) Honors ALGEBRA 2 (Graduation Requirement) 1 credit/4.5 scale

Prerequisites: Successful completion of Algebra 1 H and Geometry H/ Teacher Recommendation
Description: This course is a math graduation requirement for the class of 2014 and beyond designed for eleventh grade students on the college preparatory track. This course will reinforce topics learned in Algebra I H. Advanced topics such as logarithms, trigonometry and conic will be introduced while other topics such as functions and probability will be expanded. This course is recommended for students taking chemistry or physics. This course will challenge students to work and study independently.

(1113CCP) CCP COLLEGE ALGEBRA (Meets Algebra 2 or Equivalent Graduation Requirement)
1 credit/5.0 scale
Prerequisites: Attaining required ACT Math or Accuplacer score as determined by college/university awarding credit.
Description: Extends coverage of topics from Algebra 1: Equations and Inequalities, Functions, Linear Functions and Polynomials. Covers the additional topics: Rational Functions, Matrices, Logarithmic Functions, Modeling, Analytic Geometry, Sequences, Probability, and Counting Theory.

(1235CCP) CCP PRECALCULUS (Meets 4th yr. Math Graduation Requirement) 1 credit/5.0 scale

Prerequisite: Attaining required ACT Math or Accuplacer score as determined by college/university awarding credit.
Description: This course will cover topics as outlined in the associated college/university syllabus. Topics such as trigonometry and transformations will be covered. This course will challenge students to work and study independently and is recommended for college-bound students.

(1235) PRECALCULUS (Meets 4th yr. Math Graduation Requirement) 1 credit/5.0 scale

Prerequisite: Successful completion of Algebra 1 H, Geometry H, and College Algebra courses or combined consent of associated teachers.
Description: This course will reinforce topics learned in Algebra 1 H and Algebra 2 H. Topics such as trigonometry, conics, functions, and transformations will be expanded. This course is recommended for all college bound students with an interest in any scientific field. This course will challenge students to work and study independently.

CCP STATISTICS (1270) STATISTICS (Meets 4th Year Math Graduation Requirement) 1 credit/5.0

Prerequisite: Attaining required ACT Math or Accuplacer score as determined by the college/university awarding credit. Successful completion (B) of college algebra and algebra 2.

Description:
In this course, students will build a strong foundation in statistical reasoning and data analysis. The course

introduces the major concepts of probability, interpretation of data, and statistical problem solving. Students will engage in hands-on experimentation and real-world investigations to deepen their understanding.

Throughout the course, students will work with both existing datasets and data they collect themselves. They will learn how to organize, represent, and analyze data using a variety of methods, then draw meaningful conclusions based on their findings. Emphasis is placed on critical thinking and applying statistics to real-life situations.

The four main components of the course include exploring data, data collection, probability, and statistical inference.

(1237CCP) CCP CALCULUS (Meets 4th yr. Math Graduation Requirement) 1 credit/5.0 scale

Description: This mathematics course is foundational for students planning for advanced work in the STEM-related and medical fields. This beginning Calculus course will include a medical, graphical and algebraic investigation of limits; functional interpretation of limits; continuity; rules and theorems related to derivatives; graphical interpretations of the derivative as well as rates of change between variables; higher-order derivatives; curve sketching; function analysis and optimization; and, an introduction to integral calculus including antiderivatives, areas under curves, integration by substitution, and the Fundamental Theorem of Calculus.

(1237) CALCULUS (Meets 4th yr. Math Graduation Requirement) 1 credit/5.0 scale

Prerequisite: Successful completion of Algebra 1 H, Geometry H, College Algebra courses, and Precalculus or combined consent of associated teachers.
Description: This mathematics course is foundational for students planning for advanced work in the STEM-related and medical fields. This beginning Calculus course will include a medical, graphical and algebraic investigation of limits; functional interpretation of limits; continuity; rules and theorems related to derivatives; graphical interpretations of the derivative as well as rates of change between variables; higher-order derivatives; curve sketching; function analysis and optimization; and, an introduction to integral calculus including antiderivatives, areas under curves, integration by substitution, and the Fundamental Theorem of Calculus.

SCIENCE

(1310) PHYSICAL SCIENCE (Graduation Requirement) 1 credit

Prerequisite: None
Description: This course is a graduation requirement designed for ninth grade students. The course consists of 6 units: nature of matter, changes in matter, motion and energy, waves and wave properties, electricity, magnetism and exploring earth and space.

(1311) Honors PHYSICAL SCIENCE (Graduation Requirement) 1 credit/4.5 scale

Prerequisite: Teacher Recommendation
Description: This course is a graduation requirement designed for ninth grade students on the college preparatory track. This is a college prep class and will move more rapidly and extensively than regular

Physical Science. The course consists of 6 units: nature of matter, changes in matter, motion and energy, waves and wave properties, electricity, magnetism and exploring earth and space.

(1320) BIOLOGY (Graduation Requirement) 1 credit

Prerequisite: Physical Science
Description: This course is a required course for graduation for tenth grade students. Biology investigates the composition, diversity, complexity and interconnectedness of life on Earth. Fundamental concepts of heredity and evolution provide a framework through inquiry-based instruction to explore the living world, the physical environment and the interactions within and between them. We will examine the eight characteristics that all living things share in common.

(1321) Honors BIOLOGY (Graduation Requirement) 1 credit/4.5 scale

Prerequisite: Physical Science H/Teacher Recommendation
Description: This course is a required course for graduation for tenth grade students. Biology investigates the composition, diversity, complexity and interconnectedness of life on Earth. Fundamental concepts of heredity and evolution provide a framework through inquiry- based instruction to explore the living world, the physical environment and the interactions within and between them. We will examine the eight characteristics that all living things share in common. The honors section includes a faster pace, greater depth of content, and additional coursework including a midterm and final exam.

(1330) CHEMISTRY (Meets 3rd yr. Science Graduation Requirement) 1 credit/5.0 scale

Prerequisite: Physical Science and Biology/Teacher Recommendation
Description: A recommended course for juniors or senior level students. The course focuses on developing the core concepts of chemistry: Energy, physical and chemical properties of matter, conservation of matter, system and interactions, and equilibrium and change. Any students taking Chemistry must also be enrolled in Chemistry Lab.

(1330L) CHEMISTRY LAB (Must Accompany Chemistry) (Full Year Elective) 1 credit

Prerequisite: Physical Science and Biology/Teacher Recommendation
Description: This course must be taken along with Chemistry.

(1331) ENVIRONMENTAL SCIENCE (Meets 3rd yr. Science Graduation Requirement) 1 credit

Prerequisite: Biology
Description: Environmental Science explores the interactions between humans and the natural world. Students will investigate ecological principles, biodiversity, energy resources, pollution, climate change, and sustainability. Through labs, projects, and field investigations, students will develop critical thinking skills and a deeper understanding of how scientific principles apply to real-world environmental issues. This course emphasizes scientific inquiry, data analysis, and problem-solving, encouraging students to consider the ethical, social, and political dimensions of environmental decision-making.

(1340) CCP HUMAN BODY (Meets 3rd yr. Science Graduation Requirement) 1 credit/5.0 scale

Prerequisite: Qualifying score on Accuplacer
Description: The student will learn the recognize the structures, describe the physiological processes, and use correct terminology to describe the many aspects of the human body. Online activities are integrated in a

comprehensive study of the cells, tissues and organs of the body, with emphasis on the integumentary, skeletal, articular, muscular, nervous, endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary and reproductive systems.

PHYSICS (1341) (Meets Science Graduation Requirement) 1 credit/4.5

Prerequisite: Successful completion of Algebra II is recommended.

Description:
In this course, students will explore the fundamental principles that govern the physical world. Topics include motion, forces, energy, momentum, waves, and basic electricity. Students will develop problem solving skills by applying mathematical concepts to real world physical situations.

The course emphasizes hands-on experimentation and inquiry based learning. Students will conduct investigations, collect and analyze data, and use scientific reasoning to draw conclusions. They will also learn to interpret graphs, apply formulas, and understand the relationships between physical variables.

Through a combination of investigations, demonstrations, and real world applications, students will gain a deeper understanding of how physics impacts everyday life.

SOCIAL STUDIES

(1410) WORLD HISTORY (Graduation Requirement) 1 credit

Prerequisite: None
Description: This course is a graduation requirement for freshmen. The course will include world geography, cultural diversity, and global economics, and government for the period between 1750 through the present day.

(1411) Honors WORLD HISTORY (Graduation Requirement) 1 credit/4.5 scale

Prerequisite: Teacher Recommendation
Description: This course is a required graduation course for freshmen on the college preparatory track. This course will include world geography, cultural diversity, and global economics, and government for the period between 1750 through the present day. This is a college preparatory course and will move more rapidly and extensively than regular World History.

(1420) US HISTORY (Graduation Requirement) 1 credit

Prerequisite: World Studies
Description: This course is a graduation requirement designed for sophomores. The course includes topics related to American history, world history, geography, sociology, economics and government for the time period 1866 to the present.

(1421) Honors US HISTORY (Graduation Requirement) 1 credit/4.5 scale

Prerequisite: World Studies CP or Permission

Description: This course is a graduation requirement designed for sophomores on the college preparatory track. This course will integrate the topics of American history, world history, geography, sociology, economics and government for the time period 1866 to the present. This course will move more rapidly and extensively than regular US History.

(1440) GOVERNMENT (Graduation Requirement) 1 credit

Prerequisite: World Studies, American History
Description: This course is a graduation requirement. The course will focus on government and economics. We will also be discussing contemporary issues. Various methods of instruction will be used to convey this information to the students. Many projects will be assigned during the course requiring the student to work with resources in the library as well as the computer lab.

(1441) Honors GOVERNMENT (Graduation Requirement) 1 credit/4.5 scale

Prerequisite: World Studies CP, American History CP, Permission
Description: This course is a graduation requirement designed for students on the college preparatory track. The course will focus on government and economics. We will also be discussing contemporary issues. Various methods of instruction will be used to convey this information to the students. Many projects will be assigned during the course requiring the student to work with resources in the library as well as the computer lab. Course content will expand on topics and move at a more rapid pace than the regular course.

(1441CCP) CCP GOVERNMENT (Graduation Requirement) 1 credit/5.0 scale

Prerequisite: Meets the testing and/or GPA requirements for College Credit Plus
Description: This course is for students taking the course as part of the College Credit Plus program. Students will be earning both high school and college credit for this course. The course will focus on government and economics. We will also be discussing contemporary issues. Various methods of instruction will be used to convey this information to the students. Many projects will be assigned during the course requiring the student to work with resources in the library as well as the computer lab. Course content will expand on topics and move at a more rapid pace than the regular course.

(1442) FINANCIAL LITERACY (Graduation Requirement) (Semester) .5 credit

Prerequisite: 12th grade
Description: This class provides instruction in economics and personal finance. Topics include economic systems and economic cycles. Students will gain knowledge in budgets, careers, spending plans, balancing checkbooks, investing, good credit/bad credit, insurance and taxes. This course will require students to apply skills and knowledge to content information to real life financial situations.

ELECTIVES

(1900) WORK STUDY (Semester Elective) No credit

Prerequisite: Permission

Description: Work Study is for students who would like to be engaged in an academic program that enables high school students to gain work experience and make money while continuing their studies. This course is set up as a Pass/Fail course.

(1910) STUDENT AIDE (Semester Elective) No Credit

Prerequisite: 11th – 12th grade / Teacher recommendation and application.
Description: This course allows students to have a placement within the high school to assist classroom teachers as well as explore career opportunities within the school system. There is no credit awarded for this course.

(1920) GUIDED STUDY (Full Year Elective) 1 credit

Prerequisite: Placement Only
Description: This course is designed for students to receive additional classroom support with an intervention specialist. Course placement will be determined by the Special Education Department, School Counselor, and Principal. This course is set up as a Pass/Fail course.

(1930) ALA: Academy for Leadership Abilities (Semester or Full Year Elective) 1 credit

Prerequisite: Grades 9-12
Description: Academy for Leadership Abilities® is designed to help participants see their value by focusing on strengths, not weaknesses. We add value to other people. Adding value to those around us will make our schools better, our workforce stronger, and our communities connected. Participants are challenged to learn HOW to think, not WHAT to think. ALA sessions can be a life changer for those involved. This is a Pass/Fail course with several community service opportunities.

FOREIGN LANGUAGE

(1500) FRENCH I (Full Year Elective) 1 credit/4.5 scale

Prerequisite: It is recommended that a student have A&B in English and a good attendance rate.
Description: This course is a beginning language course with its primary goal being to introduce students to the French language and culture. This course exposes and initiates communication in French in the four basic language skills of listening, speaking, reading, and writing. French 1 focuses on the phonetic sounds and elements of French, contains a large amount of vocabulary, deals primarily with the present tense conjugation, and basic grammar. This is a new journey to enhance students' knowledge and appreciation of the diverse cultures found in francophone countries around the world.

(1501) FRENCH 2 (Full Year Elective) 1 credit/4.5 scale

Prerequisite: Pass French 1 with 80% or higher
Description: This course is a continuation of French 1 where students will continue to explore the

francophone world and grammar structures. This course expands on communication in French in the four basic language skills of listening, speaking, reading, and writing through integrated performance assessments. French 2 focuses on the phonetic sounds and elements of French, contains a large amount of vocabulary, deals primarily with the past and present tense conjugations, and intermediate grammar.

(1502) FRENCH 3 (Full Year Elective) 1 credit/5.0 scale

Prerequisite: Pass French 2 with 80% or higher
Description: French 3 is designed to solidify understanding of all present tense forms, common irregular forms, and sentence structure. An intensive study of the past tenses will be the main focus of the year through reading, writing, listening, and speaking assessments. Students will continue to expand their vocabulary in the context of these grammatical structures. Francophone countries will serve as the cultural context in which curriculum will be provided.

(1503) FRENCH 4 (Full Year Elective) 1 credit/5.0 scale

Prerequisite: Pass French 3 with 80% or higher
Description: French is designed to solidify understanding of all present tense forms, common irregular forms, and sentence structure. An intensive study of the past tenses will be the main focus of the year through reading, writing, listening, and speaking assessments. Students will continue to expand their vocabulary in the context of these grammatical structures. Francophone countries will serve as the cultural context in which curriculum will be provided.

FINE ARTS

(1802) BAND (Meets Fine Arts Graduation Requirement) 1 credit

Prerequisite: None
Description: This course is designed to give the student an enriching and diverse instrumental music education. This class provides a number of performance opportunities for the student in a variety of settings. The daily objective of the course is to foster and promote musical growth through the playing of an instrument by the student. As a member of the band program, group effort and cooperation is necessary to a successful program. Band is a skilled effort in which each student is expected to show technical and musical growth throughout this course.

(1802) BAND LAB (Meets Fine Arts Graduation Requirement) 0.5 credit

Prerequisite: Permission
Description: Band lab provides open office hours for additional instrumental practice or independent study.

(1802) INTERMEDIATE BAND (Meets Fine Arts Graduation Requirement) 0.5 credit

Prerequisite: None
Description: This course is recommended for any students joining band for the first year. This course gives a more in-depth teaching of instrument use and music reading.

(1810) ART 1 (Semester Elective) (Meets Fine Arts Graduation Requirement) .5 credit

Prerequisite: None
Description: A general art class that introduces the elements of art and a variety of media including graphite, acrylic, watercolor, and clay.

(1820) ART 2 (Semester Elective) (Meets Fine Arts Graduation Requirement) .5 credit

Prerequisite: Art 1
Description: A general art class that builds a deeper understanding of how to use a variety of media and techniques, with the goal of ending the class with a versatile, creative portfolio. This course builds on the content learning in Art 1.

(1880) DRAWING (Semester Elective) (Meets Fine Arts Graduation Requirement) .5 credit

Prerequisite: Art 1 and/or Art 2
Description: Learn how to draw anything: this class teaches the fundamentals of drawing objects, linear perspective, people, portraits, and landscapes.

(1881) PAINTING (Semester Elective) (Meets Fine Arts Graduation Requirement) .5 credit

Prerequisite: Art 1 and/or Art 2
Description: Learn how to paint objects, people, portraits, and landscapes using watercolor and acrylic paint.

(1882) OPEN STUDIO (Semester Elective) (Meets Fine Arts Graduation Requirement) .5 credit

Prerequisite: Art 1 and Art 2 OR Art 1 and Drawing/Painting OR create an art portfolio for approval
Description: Open Studio is a visual art class in which the student is given structured time to explore ideas and to create new and unique 2-dimensional and three-dimensional art. Clay will not be used in this class. All students will be given the freedom to explore various media and ideas on a daily basis. The teacher will provide prompts and guidance to assist the student in exploring and creating art to their highest potential. (STUDENT MUST BE SELF MOTIVATED).

PHYSICAL EDUCATION & HEALTH EDUCATION

(1700) PHYSICAL EDUCATION (Semester Elective) (Graduation Requirement) .25 credit

Prerequisite: None
Description: Physical Education is a requirement for graduation. It is a course a student must take unless he/she has a doctor's excuse. Some of the exercises are: gaining motor skills to apply in everyday living and in sports, developing individual skills, and learning to get along with others, carrying out directions, and learning self-discipline.

(1720) HEALTH (Semester Elective) (Graduation Requirement) .5 credit

Prerequisite: None
Description: This course is a requirement for Ohio graduation. This class will allow students the opportunity to explore a variety of activities that promote a healthy lifestyle. This course will focus on Understanding your Total Health, Healthy Relationship, Dealing with Stress and Loss, Nutrition, Physical Fitness, Personal Care and Body Systems, Drugs, Diseases and Disorders, and Safety and Environmental Health.

(1731) WEIGHT LIFTING (Semester Elective) .5 credit

Prerequisite: None
Description: This course is designed to give students the opportunity to learn weight training concepts and techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive weight training and cardiorespiratory endurance activities.

AGRISCIENCE

(1650) Agriculture, Food, and Natural Resources (AFNR) (Full Year Elective) 1.25 credit

Prerequisite: None
Description: This is the first course in the Agricultural and Environmental Systems career field. It introduces students to the pathways that are offered in the Agricultural and Environmental Systems career field. As such, learners will obtain fundamental knowledge and skills in food science, natural resource management, animal science and management, plant and horticultural science, power technology and biotechnology. Students will be introduced to the FFA organization and begin development of their leadership ability.

(1670) ANIMAL AND PLANT SCIENCE (Full Year Elective) 1.25 credit

Prerequisite: AFNR
Description: Students will apply knowledge of animal and plant science to the agriculture industry. They will be introduced to the value of production animals relative to the agricultural marketplace. Students will engage in animal classification and selection, body systems, along with animal welfare and behavior in relation to the production of animals. Students will learn principles of plant anatomy and physiology, and the role of nutrition, deficiencies and growing environment on plant production. Throughout the course, business principles and professional skills will be examined.

(1680) FORESTRY AND WOODLAND ECOSYSTEMS (Full Year Elective) 1.25 credit

Prerequisite: AFNR
Description: Students will apply principles of botany, dendrology and silviculture to the management of forests and forest ecosystems. They will apply principles of timber cruising with surveying and mapping techniques to take forest measurements. Learners will develop the knowledge and skills necessary for forest reforestation, timber stand improvement, timber harvesting and forest product utilization. Learners will operate and maintain forestry equipment, apply fire management practices, and understand related regulations, laws, and policy issues.

(1690) BUSINESS MANAGEMENT FOR AGRICULTURE (Full Year Elective) 1.25 credit

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

(1690) AGRICULTURAL AND ENVIRONMENTAL SYSTEMS CAPSTONE (Full Year Elective) 1.25 credit

Prerequisite: Senior status with two prior agriscience classes
Description: Students apply Agricultural and Environmental Systems program knowledge and skills in a more comprehensive and authentic way. Capstones are project/problem-based learning opportunities that occur both in and away from school. Under supervision of the school and through partnerships, students combine classroom learning with work experience to benefit themselves and others. These can take the form of mentorship employment, cooperative education, and internships.

CONSTRUCTION TECHNOLOGIES

(1602) PLAN READING AND ESTIMATING (Full Year Elective) 1 credit

Prerequisite: None
Description: Students learn blueprint reading as it relates to the architecture and construction. Students will use scaling, orthographic projections, dimensioning practices, symbols, notations, and abbreviations to perform area calculations and to interpret floor plan, section, and elevations and develop an estimate of material, time, personnel, and equipment needs, availability, and cost. Using construction plans, students will identify problems or shortcomings related to the layout and installation of materials for the project.

(1603) MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS (Full Year Elective) 1 credit

Prerequisite: None
Description: Students Learn physical principles and fundamental skills across mechanical systems in construction. Students Will select materials, assemble, and test basic electrical circuits. Students will select materials and assemble simple copper and plastic plumbing applications for both supply and drains. They will perform simple maintenance of electric motors, electric fixtures and plumbing fixtures. Students will be able to select and install basic ductwork components and learn the operation and maintenance of heating and cooling equipment.

(1605) STRUCTURAL SYSTEMS (Full Year Elective) 1 credit

Prerequisite: None
Description: Students will learn procedures and techniques required for layout and framing of walls and ceilings, including roughing-in door and window openings, constructing corners and partitions; bracing walls and ceilings; and applying sheathing. Students will learn methods of roof, cold formed steel, and wood stair framing. Students will learn site and personal safety, material properties, design procedures, and code requirements for structural systems.

(1606) PRINCIPLES OF WOOD CONSTRUCTION (Full Year Elective) 1 credit

Prerequisite: None
Description: Students will engage in the introductory skills utilized in working with various wood construction materials. They will learn to use basic measuring tools, hand tools and machines, common to the wood industry, to construct basic projects. Additionally, students will examine various wood construction materials and their properties. Throughout the course, students will learn components of site and personal safety

(1608) CONSTRUCTION CAPSTONE (Full Year Elective) 1 credit

Prerequisite: Two prior construction technology courses
Description: Students apply Construction Technologies program knowledge and skills in a more comprehensive and authentic way. Capstones are project/problem based learning opportunities that occur both in and away from school. Under supervision of the school and through partnerships, students combine classroom learning with work experience to benefit themselves and others. These can take the form of mentorship employment, cooperative education, or internships.

ENGLISH ELECTIVES

(1170) CREATIVE WRITING (Semester Elective) .5 credit

Prerequisite: None
Description: This course will develop student's creative writing skills. Students will experience writing poetry, short stories and creative non-fiction, applying appropriate techniques

(1174) CREATIVE WRITING II (Semester Elective) .5 credit

Prerequisite: Introduction to Creative Writing and/or Creative Writing I
Description: This course will further advance students' creative writing skills and techniques. Students will experience writing poetry, short stories, plays, and creative non-fiction.

(1173) GRAPHIC NOVEL LITERATURE (Semester Elective) .5 credit

Prerequisite: None
Description: From superheroes to everyday heroes, students will explore the structure, art, and content of a variety of graphic novels and comics. We will also explore the history, themes, and social significance of the genre. Students will engage in various levels of reading activities, creative projects, and discussions throughout this course.

(1177) GOTHIC LITERATURE & HORROR (Semester Elective) .5 credit

Prerequisite: None
Description: Does the supernatural, dark, and mysterious interest you? Students will explore the genre's structure, art, and content through various novels, short stories, and poems. We will also explore the literary genre's history, themes, and social significance. Students will engage in varied levels of reading activities, creative projects, and discussions throughout this course.

(1178) NATURE INTERPRETATION (Semester Elective) .5 credit

Prerequisite: None
Description: Everything we do in class will be centered around a nature based theme. Sometimes, we will physically immerse ourselves into nature, and other times we will write about how it makes us feel. This class is meant to be fun, but we will push ourselves to learn, and grow. By the end of this class I expect everyone to be more cultured in all aspects of nature. While this is an English elective, I plan on integrating science, and history into our lessons as well. Some of the things covered this previous year were fort building, plant identification, mushroom hunting, outdoor survival knowledge, looking for artifacts and relics in the creek, and poetry analysis as well.

(1179) PUBLIC SPEAKING (CCP Option) (Semester Elective) .5 credit

Prerequisite: None
Description: This course is an introduction to speech communication which emphasizes the practical skill of public speaking, including techniques to lessen speaker anxiety, and the use of visual aids to enhance speaker presentations. This course's goal is to prepare students for success in typical public speaking situations and to provide them with the basic principles of organization and research needed for effective speeches.

(1171) JOURNALISM (Semester Elective) .5 credit

Prerequisite: None
Description: The course of Journalism is designed to teach students the various forms of journalism, application and analysis of media, as well as writing skills. Students will engage in multiple forms of media, with a strong focus in newspaper writing.

(1171) FILM STUDY (Semester Elective) .5 credit

Prerequisite: None
Description: This course introduces students to the basics of film analysis, genre, and narrative structure and helps students develop the skills to recognize, analyze, describe and enjoy film as an art and entertainment form. This course is suggested for students that enjoy watching movies and discussing literacy components of film.

MATH ELECTIVES

(1240) MATH BEYOND THE CLASSROOM (Semester Elective) .5 credit

Prerequisite: Successful completion of Algebra 1
Description: Math Beyond the Classroom will explore a sampling of five distinct areas from everyday life

where math's impact plays a meaningful role. We will study the connections and use of math in art, the environment, medicine, music, and sports. Includes unit projects.

SCIENCE ELECTIVES

(1360) FOOD SCIENCE (Semester Elective) .5 credit

Prerequisite: None
Description: In this course, students will examine various biological, chemical, and physical scientific principles associated with food in our society. Topics include: food production, distribution, nutrition, government regulations, food safety and toxicology, food engineering and biotechnology, cultural investigations, and product development. Labs will include food preparation techniques and food safety standards.

(1360) FORENSIC SCIENCE (Semester Elective) .5 credit

Prerequisite: None
Description: Forensic Science is the application of science (chemistry, physics, and biology) to the criminal and civil laws that are enforced by police agencies in a criminal justice system. It includes the investigation of fingerprinting, fiber analysis, ballistics, arson, trace evidence analysis, poisons, drugs, blood spatters, and blood samples. Students are taught the proper collection, preservation, and laboratory analysis of various samples.

(1360) EVERYDAY SCIENCE (Semester Elective) .5 credit

Prerequisite: None
Description: This elective science course will apply basic scientific principles to your everyday life. Components of the class will include field work, labs, projects, research assignments, reading and writing assignments, data collection and analysis, and experimental design. We will explore topics in biology, chemistry, physics, and other scientific disciplines.

SOCIAL STUDIES ELECTIVES

(1435) HISTORY OF THE HOLOCAUST (Semester Elective) .5 credit

Prerequisite: None
Description: The Holocaust is arguably one of the most tragic and profound experiences of documented, institutionalized genocide in the entirety of human history. Never before and never have we afterwards seen such mass killings to the sophisticated extent of the Holocaust, and for good reason. Due to this rarity, the Holocaust can serve as a morbidly engaging topic as nothing quite like it has ever truly happened in any other instance of history. From the roaming Einsatzgruppen, to Lithuanian and Ukrainian auxiliaries, too the Wannsee Conference, Gas Chambers, Concentrations Camp System, to the Waffen-SS and Wehrmacht participation in these atrocities, a prospective student can truly learn about the evil that any human is capable of, and what hate can do to an individual if it is allowed to manifest fully.

<u>(1435) HISTORY THROUGH FILM</u> (Semester Elective) .5 credit

Prerequisite: None
Description: One way to learn about the past is to study movies with historical themes. In this course we will examine historical events by watching, discussing, and writing about a variety of historical movies. Movies can provide factual information about a historical figure, event, or time period; they can also distort the past. A major part of the course will be discussion of how movies accurately and inaccurately portray history as well as the main themes found throughout the movie and how they relate to the historical event being studied.