

McDonald High School Course Descriptions 2024-2025

GRADUATION REQUIREMENTS FOR THE CLASS OF 2023 AND BEYOND

There are 3 parts to meeting state graduation requirements:

1. Cover the Basics:

- The minimum requirements for graduation at McDonald High School are 21 units of credit they are as follows:

- 4 Units of English
- 4 Units of Math
- 3 Units of Social Studies
- 3 Units of Science
- 1 Units of Health and Physical Education
- 1 Unit of Fine Arts
- 5 Units of Electives

*Students must receive instruction in economics and financial literacy (in high school)

2. Show Competency:

- Earn a passing score on Ohio's high school Algebra I and English II tests. Students who do not pass the test will be offered additional support and must retake the test at least once. Is testing not your strength? After you have taken your tests, there are three additional options to show competency!
 1. Demonstrate Two Career-Focused Activities* : Foundational Proficient scores on WebXams A 12-point industry credential A pre-apprenticeship or acceptance into an approved apprenticeship program Supporting Work-based learning Earn the required score on WorkKeys Earn the OhioMeansJobs Readiness Seal
 2. Enlist in the Military Show evidence that you have signed a contract to enter a branch of the U.S. armed services upon graduation.
 3. Complete College Coursework Earn credit for one college-level math and/ or college-level English course through Ohio's free College Credit Plus program.

3. Show Readiness

- Students will demonstrate readiness by earning at least two diploma seals, one of which must be state defined.

State-Defined Diploma Seal	Requirements
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	A student can: 1. Earn a score that is at least equivalent to proficient on an appropriate Advanced Placement or International Baccalaureate exam; 2. 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 3. Complete a course offered through the district or school that meets guidelines developed by the Department. (A district or school is not required to offer a course that meets those guidelines.)
Industry-Recognized Credential Seal	Earn a 12-point approved industry-recognized credential or group of credentials totaling 12 points in a single career field.
Citizenship Seal	A student can: 1. Earn a score of proficient or higher on both the American history and American government end-of-course exams; 2. Earn a score that is at least equivalent to proficient on appropriate Advanced Placement or International Baccalaureate exams; or 3. Earn a final course grade that is equivalent to a “B” or higher in appropriate classes taken through the College Credit Plus program.
OhioMeansJobs-Readiness Seal	Meet the requirements and criteria established for the readiness seal, including demonstration of work-readiness and professional competencies.

State Seal of Biliteracy	Meet the requirements and criteria, including proficiency requirements on assessments in a world language and English.
College-Ready Seal	Earn remediation-free scores on the ACT or SAT. Visit the ODE for more information.

Science Seal	A student can: 1. Earn a score of proficient or higher on the biology end-of-course exam; 2. Earn a score that is at least equivalent to proficient on appropriate Advanced Placement or International Baccalaureate exams; or 3. Earn a final course grade that is equivalent to a “B” or higher in an appropriate class taken through the College Credit Plus program.
Honors Diploma Seal	Earn one of six Honors Diplomas outlined below: 1. Academic Honors Diploma; 2. International Baccalaureate Honors Diploma; 3. Career-Tech Honors Diploma; 4. STEM Honors Diploma; 5. Arts Honors Diploma; 6. Social Science and Civic Engagement Honors Diploma.
Locally Defined Diploma Seals**	Requirements
Community Service Seal (locally defined)	Complete a community service project aligned with the guidelines adopted by the school district’s local board of education or school governing authority.
Student Engagement Seal (locally defined)	Participate in extracurricular activities such as athletics, clubs or student government to a meaningful extent, as determined by guidelines adopted by the school district’s local board of education or school governing authority.
Fine and Performing Arts Seal (locally defined)	Demonstrate skill in the fine or performing arts according to an evaluation aligned with guidelines adopted by the school district’s

	local board of education or school governing authority.
--	---

DIPLOMA WITH HONORS
(available to class of 2025)

Ohio students have the opportunity to choose to pursue one of six honors diplomas:

1. Academic Honors Diploma
2. International Baccalaureate Honors Diploma*
3. Career Tech Honors Diploma*
4. STEM Honors Diploma*
5. Arts Honors Diploma*
6. Social Science and Civic Engagement Honors Diploma*

To be awarded an Honors Diploma, the student shall:

1. Meet McDonald High School's curricular requirements.
2. Pass State Mandated Proficiency test.
3. Meet seven of the eight criteria listed:
 - a. Earn four credits of English
 - b. Earn four credits of Mathematics which shall include Algebra 1, Geometry, Algebra II or equivalent and another higher level course or a four-year sequence of courses that contain equivalent content. (Excludes Applied Math)
 - c. Earn four credits of Science, including 2 units of advanced 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 (clearly preparing students for a college freshman-level science class.)
 - d. Earn four credits of Social Studies.
 - e. Earn either three credits of one global language or two credits of two global languages.
 - f. Maintain an overall high school grade point average of at least 3.5 on a four point scale.
 - g. Earn one credit of fine arts.
 - h. Obtain a composite score of 27 on the ACT or 1210 on the SAT

***For the criteria required for students to earn one of the six honors diplomas visit the Ohio Department of Education website.**

New Honors Diploma Requirements

(available to class of 2025 and beyond)

High school students can gain state recognition for exceeding Ohio's graduation requirements through an Academic Honors Diploma. High-level coursework, college and career readiness tests and real-world experiences challenge students.

Students must meet **all but one** of the following criteria. Each of these criteria go beyond the **standard requirements for a diploma for the classes of 2023 and beyond**. Students must meet general graduation requirements and complete the requirements outlined below to qualify for honors diplomas. Students may replace one requirement of either 4, 5 or 6 with a "Student Strength Demonstration." **The previous requirements to earn an honors diploma are also available for students in the classes of 2023-2025.**

To be awarded an Honors Diploma, the student shall:

(Meet McDonald High School's curricular requirements.)

1. Fourth math must be > Algebra 2 (Excludes Applied Math)
2. Earn four credits of Science, including one unit of advanced science.
(Excludes Ecology, Forensics)
3. Earn four credits of Social Studies.
4. Three sequential units of one world language, or no less than 2 sequential units of two world languages studied
5. GPA 3.5 on a 4.0
6. ACT score of 27 or higher, SAT score of 1280 or higher
7. Seal Requirement: Earn two additional diploma seals, not including Honors Diploma Seal
8. Experiential Learning: Field Experience, OhioMeansJobs Readiness Seal*, Portfolio or Work-Based Learning

*Students can use OMJ Readiness Seal in 2 additional seal requirements if it is not used in Experiential Learning.

Student Strength Demonstration Replacement

Students can use the Student Strength Demonstration to replace one of either the ACT/SAT, GPA or World Language requirement for any Honors Diploma. The Student Strength Demonstration options are listed below. The same options exist for each of the six honors diplomas* but, where relevant, should reflect coursework or experiences relevant to the theme of the Diploma. For example, a student earning the

Academic Honors Diploma and using the College Credit Plus option to replace another requirement for the diploma should have College Credit Plus courses relevant to the Academic Honors diploma.

OPTIONS:

College Credit Plus: 12 total College Credit Plus credit hours

Advanced Placement: three courses with score of 3 or higher on AP tests

Career-Technical Assurance Guide (CTAG): 12 total credits

Apprenticeship/Pre-Apprenticeship: Completion or Evidence of Acceptance if required to be older than 18

WorkKeys: Score of 6 or higher on all tests (*void for Career-Tech Honors Diploma)

Armed Services Vocational Battery: Score of 50 or above on the ASVAB

Work-Based Learning: 250 total hours of work-based learning

GRADING SYSTEM

The following procedures will be utilized in determining a student’s letter grade for a nine-week grading period:

A	93 – 100
B	84 – 92
C	74 – 83
D	65 – 73
F	64 and below

A grade will be calculated by totaling the value of six marks for the year and three marks for the semesters using the following procedure:

Example:

	1	2	Exam	3	4	Exam
<u>Full yr.</u>	22.5%	22.5%	5%	22.5%	22.5%	5%
<u>class</u>						

	1	2	Exam
<u>Sem.</u>	45%	45%	10%
<u>class</u>			

The grade will continue to be displayed on the report card; however, teachers will use percentages to determine their student's grades for the semester and yearly average.

An incomplete (INC) grade specifies work is incomplete and should normally be completed by the student within (10) school days after receipt of the report card. An INC is issued to provide students with a reasonable amount of time to make up work following an excused absence. It is the responsibility of the student to approach the teacher for make-up assignments. An incomplete grade becomes an F if the work is not completed in a reasonable length of time. Extended illness and special situations, as defined by the building principal, are the only exceptions to this policy.

RANK IN CLASS

Rank in class is calculated at the end of the first semester and at the end of every year. All grades earned by the student are used in determining the grade point average.

PROMOTIONS

Junior High

Students shall be promoted from the 7th to the 8th grade and from the 8th grade to the 9th grade upon successful completion of three (3) major subjects for the year. Major subjects include English, Reading, Math, Science, and History.

High School

For Promotion to:	Student Must Have:
10 th Grade	5.25 Units
11 th Grade	10.5 Units
12 th Grade	15.75 Units

Course Description

Prerequisites for courses can be found below:

For example:

1. Strong C or preferably B average in English 8 to take a foreign language in Grade 9.
2. Strong C in Pre-Algebra & teacher recommendation for STEM Algebra I.
3. STEM Algebra I for STEM Geometry.

ENGLISH

Course: English 9

Credit: 1.00

Prerequisite: English 8

Description: In grade 9, the Ohio New Learning Standards challenge students to investigate a wide range of literary genres as well as delve deeply into substantive, complex works so that they can “read like a detective” and uncover critical clues for building analyses of texts. Entering high school, students become increasingly aware of the choices authors make and how writers emphasize particular examples or details and stitch them together into a coherent whole. At this stage of their academic careers, students provide objective summaries that incorporate both inferences drawn from the text and citations extracted directly from what they have read. Furthermore, students will be introduced to classic texts, such as *Romeo and Juliet*, and be expected to translate and analyze them.

The grade 9 Writing Standards specify that students should express themselves in multiple writing formats, including informative, argumentative and narrative writing. Across all writing formats, students are able to develop a central idea, maintain a coherent focus in their writing, and elaborate the points they make with well-documented and relevant examples, facts, and details. Through writing and conversation, students internalize the expectations of academic written and spoken English and resolve issues regarding usage. Students will also demonstrate application of varied skills, including, but not limited to, online writing, writing, and literary terms.

Course: Advanced English 9

Credit: 1.00

Prerequisite: English 8 with teacher recommendation and 3.0 GPA in English 8

Description: Advanced English 9 is a course for those who are college bound and seeking a rigorous curriculum which will be completed at an accelerated rate. The course will still meet and exceed the Ohio New Learning Standards and will also maintain the requirements of the

English 9 course; however, it will implement a more complex and rigorous curriculum, such as more challenging texts, assessments, etc. The readings (both informational and literary) will be grouped based on thematic units. Many major assignments will be performance and project based and will focus more on analysis and synthesis of complex texts and ideas. Time outside of the classroom will be required to complete assignments and readings.

Course: English 10

Credit: 1.00

Prerequisite: English 9

Description: In grade 10, the Ohio New Learning Standards require students to analyze more abstract concepts of character and theme by using inferential skills learned in Grade 9. Students will be able to read a variety of genres in both literary and informational texts as well as critically analyze a text and provide sufficient evidence to support the analysis. Topics will include evaluating an author's use of plot, character, point of view, and theme, as well as rhetorical strategies employed by authors of informational texts.

Throughout the year, students will participate in a variety of formal and informal research inquiries to synthesize context and meaning of a variety of issues. In some instances, students will use class time to synthesize meaning in formal writing covering several genres including informational, argumentative, and literary analysis.

Course: Advanced English 10

Credit: 1.00

Prerequisite: English 9 with teacher recommendation and 3.0 GPA in English 9

Description: Advanced English 10 is a course for those who are college bound and will cover many topics at a much faster rate than in English 10 by combining those elements with more complex fictional and informational texts while meeting and often exceeding the Ohio New Learning Standards. Many major assignments will be performance and project based, including creating a short film, formally presenting information to the class, writing analytical and research-based papers, and conducting student-driven research on social issues. Much of the literary work will consist of extended studies of novels and plays as well as using informational texts such as academic journals to synthesize new meaning. The content is more rigorous and challenging and deviates significantly from the texts and resources used in the traditional English 10 classroom. Texts will comprise a variety of more mature and complex subject matter including *The Great Gatsby*, *Fahrenheit 451*, *Macbeth*, and *Frankenstein* all being integral parts of the curriculum. Parental consent is implied by signing off on the student's schedule. Time outside of the classroom will be required to complete assignments and readings.

Course: English 11

Credit: 1.00

Prerequisite: English 10

Description: In grade 11, the Ohio Revised Learning Standards calls for students to be able to understand and analyze substantive, complex expository works of literary nonfiction, as well as a diverse spectrum of stories, poems, plays, and novels such that they can produce ample amounts of evidence to support inferences. Students also perform a variety of complex reading tasks focused on recurrent themes in American literature and foundational works of American political philosophy, from grasping the subtleties of an author's point of view to perceiving when a text leaves matters ambiguous. Students become skilled at determining how multiple themes or ideas combine and intertwine to produce a complex narrative or explanation as well as evaluating the premises, arguments, and rhetoric present in seminal texts from American history.

In grade 11, students begin to excel at making oral and written arguments that are logical and well-reasoned, objectively assessing the evidence on all sides of an issue. Students will show a mastery of providing text evidence in their formal writing. At this point, the Writing Standards specify that students should possess the fluency, flexibility, and focus to produce high-quality drafts under tight deadlines and be equally proficient at editing and revising their written work (over multiple drafts if needed).

Course: Advanced English 11

Credit: 1.00

Prerequisite: English 10 with teacher recommendation

Description: The Advanced English Classroom is more complex and demanding than the English 11 classroom. While the Ohio Revised Learning Standards do not differentiate between the courses the faculty member will make the class more challenging through additional literary and poetry texts. Although authors are similar, more content is covered in the Advanced course. A primary focus for students is to better prepare them for college level endeavors with a focus on making them more capable writers.

Course: English 12

Credit: 1.00

Prerequisite: English 11

Description: In the 12th grade, the British Literature and Composition course is designed to equip students with the knowledge and skills to read and comprehend complex texts. The course will focus on the history of the British Isles and will include a variety of genres within British literature presented in a thematic pattern. Students will also focus on an interactive approach to the study of literature, incorporating reading comprehension, research, writing, listening,

technology and speaking skills. Grammar, mechanics, and usage will be covered within the context of the literature and writing.

Course: Advanced English 12

Credit: 1.00

Prerequisite: Advanced English 11 with teacher recommendation

Description: This course is designed for students who plan on attending college and offers both high school senior and college freshman pathways. For those who qualify and are on the College Credit Plus college freshman pathway, College Writing I is offered in the Fall semester and includes an introductory understanding of formal collegiate writing genres such as personal narratives, short arguments, text analysis, and extended research. College Writing II is offered in the Spring semester and focuses on honing practical writing skills introduced in CW I such as extended arguments, in-depth research, and basic presentation skills. Completing these courses with a “C” or higher earns students 3 semester hours for each course.

Students on the high school senior track will be held to the same standards as those on the CCP track, but without college credit. These students will be introduced to the same variety of strategies and techniques.

Course: Journalism

Credit: 1.00

Prerequisite: Strong C in English 9 and teacher recommendation

Description: In this course, students will learn the ins and outs of crafting and writing a variety of article types including hard news and soft features. Students will learn techniques to improve their writing, how to conduct an interview, and use a variety of software to format their work. Grades will be based on effort for drafting and revising work as well as timeliness. The goal will be to showcase student work both online and in print.

Course: Journalism II

Credit: 1.00

Prerequisite: Journalism

Description: This is an advanced course that offers upper class-men students with Journalism experience an opportunity to collaborate with classmates and help with the drafting and revision process in a leadership role. These students will also be responsible for putting the newspaper together to prepare for both print and online consumption. Grades will be based on timeliness, quality of effort, and ability to use advanced editing software to put together a strong final product. Prior approval from the instructor is required, class size limited.

Course: Journalism III

Credit: 1.00

Prerequisite: Journalism II

Description: This is an advanced course that offers upper class-men students with Journalism experience an opportunity to take on a managerial role for newspaper staff. These students will be responsible for making sure the staff meets deadlines as well as producing advanced content on a variety of platforms including social media and YouTube. Grades will be based on leadership, quality of effort, and ability to use advanced editing multimedia software to put together a variety of strong final products. Prior approval from the instructor is required, class size limited.

Course: Publication

Credit: 1.00

Prerequisite: A or B average in English, Teacher recommendation, Sophomore/Junior/Senior,

Description: Students in the publication class will be responsible for completing all facets of creating and processing the school yearbook, including, but not limited to: obtaining advertisements, creating yearbook design/layout, writing captions and copy, proofreading, photography, fund raising, etc.

MATHEMATICS

Course: Algebra I

Credit: 1.00

Prerequisite: Pre-Algebra

Description: The fundamental purpose of this course is to formalize and extend the mathematics that students learned in the middle grades as described by the Common Core State Standards. The critical areas deepen and extend the understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend. Students engage in methods for analyzing, solving, and using quadratic functions. The Mathematical Practice Standards are applied throughout the course and together with the content standards. A scientific calculator as required by ODE.

Course: Geometry

Credit: 1.00

Prerequisite: Algebra I

Description: The fundamental purpose of the course in Geometry is to formalize and extend students' geometric experiences from the middle grades as described by the Common Core State Standards. Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. The Mathematical

Practice Standards are applied throughout the course and together with the content standards. A scientific calculator as required by ODE.

Course: Algebra II

Credit: 1.00

Prerequisite: Geometry

Description: Building on their work with linear, quadratic, and exponential functions, students extend their repertoire of functions to include polynomial, rational, and radical functions as described by the Common Core State Standards. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. The Mathematical Practice Standards are applied throughout the course and together with the content standards. A scientific calculator as required by ODE.

Course: STEM Algebra I (8th grade)

Credit: 1.00

Prerequisite: A or B in Math 7 and teacher recommendation

Description: This course, offered to 8th graders, is the same as STEM Algebra I. Students will earn graduation credit and grade point average (G.P.A.) will begin. The fundamental purpose of this course is to formalize and extend the mathematics that students learned in the middle grades as described by the Common Core State Standards. The critical areas deepen and extend the understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend. Students engage in methods for analyzing, solving, and using quadratic functions. The Mathematical Practice Standards are applied throughout the course and together with the content standards. Additional mathematics is included to support advanced courses in the areas of science, technology, engineering, and mathematics such as calculus, advanced statistics, or discrete mathematics. A scientific calculator as required by ODE.

Course: STEM Algebra I

Credit: 1.00

Prerequisite: Strong C in Pre-Algebra and teacher recommendation

Description: The fundamental purpose of this course is to formalize and extend the mathematics that students learned in the middle grades as described by the Common Core State Standards. The critical areas deepen and extend the understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend. Students engage in methods for analyzing, solving, and using quadratic functions. The Mathematical Practice Standards are applied throughout the course and together

with the content standards. Additional mathematics is included to support advanced courses in the areas of science, technology, engineering, and mathematics such as calculus, advanced statistics, or discrete mathematics. A scientific calculator as required by ODE.

Course: STEM Geometry

Credit: 1.00

Prerequisite: Strong C in STEM Algebra I and teacher recommendation

Description: The fundamental purpose of the course in Geometry is to formalize and extend students' geometric experiences from the middle grades as described by the Common Core State Standards. Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. The Mathematical Practice Standards are applied throughout the course and together with the content standards. Additional mathematics is included to support advanced courses in the areas of science, technology, engineering, and mathematics such as calculus, advanced statistics, or discrete mathematics (as indicated by (+) in the learning standards). A scientific calculator as required by ODE.

Course: STEM Algebra II

Credit: 1.00

Prerequisite: STEM Algebra I & STEM Geometry and teacher recommendation

Description: Building on their work with linear, quadratic, and exponential functions, students extend their repertoire of functions to include polynomial, rational, and radical functions as described by the Common Core State Standards. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. The Mathematical Practice Standards are applied throughout the course and together with the content standards. This course will include STEM standards. Additional mathematics is included to support advanced courses in the areas of science, technology, engineering, and mathematics such as calculus, advanced statistics, or discrete mathematics (as indicated by (+) in the learning standards).

Course: Trigonometry/Pre-Calculus (CCP Option)

Credit: 1.00

Prerequisite: STEM Algebra I, STEM Geometry, & STEM Algebra II

Description: Trigonometry – This course applies Algebra II methods to trigonometric functions. Students graph, solve equations and inequalities, and apply trigonometric functions to solve real world problems. There is extensive use of formulas.

Pre-Calculus – This course reviews STEM Algebra II topics and introduces ideas from Calculus such as limits, maximums and minimums. It contains extensive graphing,

logarithms, solving equations greater than the second power. It introduces the derivative and explains applications in Calculus.

Additional mathematics that students should learn in order to take advanced courses such as calculus, advanced statistics, or discrete mathematics as indicated by (+) in the learning standards.

Course: Calculus (CCP Option)

Credit: 1.00

Prerequisite: Trigonometry/Pre-Calculus

Description: This course expands on concepts introduced in trigonometry and pre-calculus such as limits, logarithms, and the trigonometric functions. Students will learn new concepts including how to find derivatives and integrate. Along with learning the various techniques involved in finding a derivative or integrating, understanding applications for their use is emphasized in calculus. Such applications include maximums and minimums, instantaneous rates of change, area under a curve, and volume generated by revolving the area around a specified line.

Course: Applied Math

Credit: 1.00

Prerequisite: Algebra II and Senior

Description: This course takes algebraic and geometric concepts and applies them to real life (break even point, supply and demand, building, etc.). In addition, this class will cover topics such as simple interest, installment buying, voting methods, set theory, graph theory, probability and statistics. The class will have many hands-on activities using graphing calculators, spreadsheets and measuring devices.

Course: Introductory Statistics (CCP Option)

Credit: 1.00

Prerequisite: STEM Algebra I/STEM Geometry or teacher recommendation and parent permission: Junior/Senior

Description: A course designed for students from different disciplines who desire introduction to statistical reasoning. Topics include collecting and summarizing data, concepts of randomness and sampling, statistical inference and reasoning, correlation and regression.

Course Objectives: The purpose of this course is for students to learn some basic statistical concepts and methodology. The goals for students in the course include:

1. developing and understanding of the fundamental concepts in statistics and their applications
2. developing data analysis, report writing and critical thinking skills

3. developing the ability to use modern computer technology in basic model building, data analysis and decision making

SCIENCE

Course: Physical Science (8)

Credit: 1.00

Prerequisite: Recommendation by 7th grade STEM teachers

Description: This course explores the main branches of physical science, physics, and chemistry in addition to the Life Science and Earth Science components from 8th grade. It employs a basic common sense approach to the study of science, with an emphasis on real-life applications. A main theme of the course is to make students aware of how science permeates everyday activities.

Course: Physical Science 9

Credit: 1.00

Prerequisite: None

Description: This course explores the main branches of physical science, physics, and chemistry. It employs a basic common sense approach to the study of science, with an emphasis on real-life applications. A main theme of the course is to make students aware of how science permeates everyday activities.

Course: Biology

Credit: 1.00

Prerequisite: Physical Science

Description: This course is broken down into four main areas of study: The Diversity and Interdependence of Life, Evolution, Heredity, and Cells. Students will investigate the composition, diversity, complexity, and the 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. Students will engage in investigations to understand and explain the behavior of living things in a variety of scenarios that incorporate scientific reasoning, analysis, communication skills, and real world applications.

Course: Chemistry

Credit: 1.00

Prerequisite: A strong C or better in STEM Algebra I

Description: This course is an in-depth physical science course, which deals mainly with the study of atoms, chemical bonds, phases of matter, and particular characteristics of chemical reaction.

Course: Advanced Chemistry (CCP Option)

Credit: 1.00

Prerequisite: Chemistry

Description: This course is designed as an in depth study of measurement, atomic structure, stoichiometry, gasses, thermodynamics, bonding, periodic properties, acid-based chemistry, titration technique, electrochemistry, organic chemistry, and other advanced topics. Students will perform laboratory experiments to supplement these chemical principles.

Course: Forensics

Credit 1.00

Prerequisite: Biology; junior or senior class standing

Description: Forensic Science is the application of science 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.

Course: Ecology/Environmental Science

Credit: 1.00

Prerequisite: Biology 10

Description: This course will include a study of the interactions between living organisms and their environment. The main focus will be on the impact of human civilization on the ever-changing Earth environment. This course is an elective for those interested in the environment, and is also designed as an alternative for the science student who may not wish to pursue physiology, chemistry, or physics. This is a project-based course, with a significant percentage of student work relating to the various projects and class presentations.

Course: Conceptual Physics

Credit: 1.00

Prerequisite: A grade of "C" or better in Alg. I and completed or currently enrolled in Alg. II

Description: Conceptual Physics is a one-year laboratory science designed for college preparatory students. Physics is the most fundamental of the sciences and is concerned with such

topics as motion, forces, energy, sound, light, electricity and magnetism. This introductory physics course will provide students with a solid understanding of physics by relating various physics concepts with everyday experiences. Physics introduces and develops the concept that the universe moves under specific mathematical formulas; due to this, students will need to apply algebraic skills to perform problem solving throughout the course. Students will also participate in hands-on activities and projects designed to develop investigative and problem solving skills as well as independent critical thinking.

Course: Physiology

Credit: 1.00

Prerequisite: A grade of C or better in Biology.

Description: Anatomy & Physiology is a yearlong course that provides students an opportunity to explore the intricate and sophisticated relationship between structure and function in the human body. The course offers students an environment in which they may probe topics such as homeostasis, anatomical and physiological disorders, medical diagnosis and treatment, modern and past imaging techniques, biochemistry, cytology, histology, and survey of the remarkable array of body systems that comprise the human body. Laboratory activities (including dissection) reinforce concepts and principles presented in the course.

SOCIAL STUDIES

Course: World Studies 9th Grade

Credit: 1.00

Prerequisite: None

Description: This course covers events, people, and places from post Renaissance (late 1500s) to the Cold War Era (1950s and 60s).

Course: U.S. History

Credit: 1.00

Prerequisite: World Studies 9th Grade, sophomore

Description: This course covers events from post–Civil War times to the present with special emphasis from 1913 to 1975.

Course: American Government

Credit: 1.00

Prerequisite: U.S. History, Junior/Senior

Description: This course covers how political, social and economic choices are made, who makes them, and their effect on the people of the United States. How the American people

govern themselves at national, state and local levels of government is the basis for this course. Students can impact issues addressed by local governments through service learning and senior projects.

Course: History of Sports

Credit: 0.50

Prerequisite: Junior/Senior

Description: Development of sports and their significance in American life during the 20th Century. With an emphasis on social, cultural, economic, and political impact of both spectator and participating sports.

Course: "The Sixties" Through T.V. and Film

Credits: 0.50

Prerequisite: Junior/Senior

Description: "The Sixties" class explains the landmark era of cultural, political, and technological change during the 1960s, infusing new relevance to the cultural touch tones that changed the world. This class will concentrate on American social, cultural, and political history of the 1960s. The course will offer a thematic approach and will address such issues as Television, popular culture, politics, JFK assassination, Cold War the Vietnam War, the Civil Rights Movement, space travel, Feminism, student revolt, music, and the Counterculture.

Course: "The Seventies and The Eighties" Through T.V. and Film

Credits: 0.50

Prerequisite: Junior/Senior

Description: "The Seventies" class examines 1970s America, focusing on the major political and historical landmarks of the decade and the cultural response to those events. The course will offer a thematic approach and will address such issues as Television, popular culture, politics, Kent State, Watergate, the Vietnam War, Cold War, the Civil Rights Movement, space travel, "Battle of the Sexes", environmentalism, crimes and cults, Terrorism, music/Disco, gas shortages and the economic decline.

"The Eighties" intersperses rare archival newsreel footage, interviews, and comments by historians, journalists, politicians, celebrities and others, painting a perspective-rich picture of a vibrant decade. Episodes examine the age of Reagan, the AIDS crisis, the end of the Cold War, Wall Street corruption, the evolving TV and music scene, and everything in between.

Course: History of World War II (Europe)

Credits: 0.50

Available to: Junior/Senior

Description: This course examines the allied victory in Europe in World War II. Students assess how the American army, trained for speed and mobility, performed during campaigns in

France and Germany. The focus is on Eisenhower's Generals and their decisions concerning amphibious invasions (e.g., Sicily, Salerno, Anzio and Omaha Beach), airdrops (e.g., Italy, France and Holland), the race across France and slogging through Italy (e.g., the Gothic siege line and the Huertgen Forest), as well as counter strokes such as Monte Cassino and the Ardennes Bulge.

Course: History of World War II (Pacific)

Credit: 0.50

Prerequisite: Junior/Senior

Description: This course is a comprehensive analysis of the fighting during World War II in the China-Burma-India Theater, New Guinea, the Solomon Islands, the Aleutians, and the Philippines. Students assess the amphibious campaigns in the central Pacific theater and evaluate the impact of one of the most massive movements of men and arms in history. Primary focus is on land warfare, its strategies, tactics, leaders and lessons learned.

Course: Psychology

Credit: 0.50

Prerequisite: Senior

Description: This course is an elective dealing with the study of basic psychological learning. Emphasis will be placed on the following: classical conditioning, operant conditioning, motivation, human behavior, heredity, intelligence and testing, environment, frustration and conflict and problems of society.

Course: Sociology

Credit 0.50

Course: Spanish II

Prerequisite: Senior

Description: This course is an elective in which students study the way people interact with one another and the vital issues and social problems facing the people. Emphasis will be placed on the following: culture, the family, religion, civil rights, crime, juvenile delinquency, poverty and individual goals.

WORLD LANGUAGE

Course: Spanish I

Credit: 1.00

Prerequisite: Strong C average or higher in all academic subjects from previous year.

Description: This course offers students the opportunity to hear the language with increasing comprehension, speak with accurate pronunciation, accent, and intonation, develop basic reading skills, use proper grammatical structure in writing, and become aware of the civilization and culture of countries and people who speak Spanish. Students will have daily assignments consisting of memorization of vocabulary and points of grammatical structure.

Course: Spanish II

Credit: 1.00

Prerequisite: Strong C or higher in Spanish I

Description: This course reinforces and expands on all material covered in Spanish I. Students will learn new verbs, new tenses and modes, new points of grammatical structure, new vocabulary, and increasingly complex sentence structures.

Course: Spanish III

Credit: 1.00

Prerequisite: Strong C or higher in Spanish II

Description: This course reinforces and expands Spanish II so that students could attain a greater degree of skill, understanding, speaking, reading, and using proper grammatical structures in writing. The students will increase their knowledge of the culture and civilization of the Spanish-speaking countries.

Course: Spanish IV

Credit: 1.00

Prerequisite: A or B in Spanish III

Description: This course reinforces and expands content learned in levels I-III to further enhance students' ability to read, write, speak, and comprehend spoken Spanish. Students will continue to learn new vocabulary, verb tenses, grammar, and cultural concepts.

Course: Hispanic Civilizations and Culture

Credit: 0.5

Prerequisite: Must be a Sophomore/Junior/Senior

Description: This semester course will explore the culture, practices and perspectives of the Spanish-speaking world throughout history. It will incorporate elements of film, art and music, daily life,

holidays and traditions, history and politics in Spanish-speaking countries and the influences that have helped mold Hispanic culture into what it is today. This course will be conducted in English.

Course: French I

Credit: 1.00

Prerequisite: Strong C average or higher in all academic subjects from previous year.

Description: This course offers students the opportunity to hear the language with increasing comprehension, speak with accurate pronunciation, accent and intonation, develop basic reading skills, use proper grammatical structure in writing, and become aware of the civilization and culture of Francophone countries. Students will have daily assignments consisting of memorization of vocabulary and points of grammatical structure.

Course: French II

Credit: 1.00

Prerequisite: Strong C or higher in French I

Description: This course reinforces and expands on all material covered in French I. Students will learn new verbs, new tenses and modes, new points of grammatical structure, new vocabulary, and increasingly complex sentence structures.

Course: French III

Credit: 1.00

Prerequisite: Strong C or higher in French II

Description: This course reinforces and expands on all previously learned content in French II so that students may attain a greater degree of skill, understanding, speaking, reading, and using proper grammatical structures in writing. Students also will increase knowledge of the culture and civilization of many Francophone countries throughout this course.

Course: French IV

Credit: 1.00

Prerequisite: Strong C or higher in French III

Description: This course is designed as a continuation of French III for motivated students who want to develop more advanced levels of speaking, writing, and comprehension in French. Intermediate French listening, speaking, reading and writing are reviewed and expanded upon in order to progress toward fluency. Francophone culture and civilization will also continue to be emphasized.

Course: Foreign Films

Credit: 0.50

Prerequisite: Must be a Sophomore/Junior/Senior

Description: This course is designed to provide an introduction to film outside the United States through an examination of film productions in their cultural contexts. This course will present subtitled films of specific world cultures, basic film theory, and discourse applicable to the selected areas.

COMPUTER

Course: Computer Applications

Credit: 0.50

Prerequisite: None

Description: The fundamental purpose of this course is to serve as a project-based learning course which utilizes the Google Applications suite students have mastered in their previous Google Applications courses in 7th and 8th grade. This course moves from the Google workspace and applications into a preliminary introduction to utilization of the Adobe applications suite (InDesign, Illustrator, Photoshop, etc.). All application utilization and learning will be aligned with the Ohio New learning Standards for technology.

Course: Media Editing

Credit: 1.00

Prerequisite: Passed Computer Applications with a C or better and must be a Sophomore/Junior/Senior.

Description: The purpose of this course is to provide students who have demonstrated a genuine passion for design in their prerequisite courses to showcase their creativity and be provided opportunities to deepen their skill level. This course serves as an introductory exploration into the exciting world of graphic and Interactive design. This class Incorporates hands-on projects that allow students to apply theoretical concepts to real-world scenarios to develop problem-solving skills and gain practical experience directly relevant to the industry. By the end of this course, students will have developed a solid foundation in graphic and Interactive design principles, acquired practical skills using industry-standard software, and gained the confidence to create visually appealing designs across different mediums. This course sets the stage for further exploration and specialization in the dynamic and creative field of graphic and Interactive design.

Course: Media Editing II

Credit: 1.00

Prerequisite: Passed Media Editing with a C or better and must be a Junior or Senior.

Description: Students will broaden their design skills by participating in the creation of various school and community materials. This exposure helps students understand the challenges and

expectations they may encounter in real world professional design projects. Projects completed within this class will contribute to the creation of a comprehensive portfolio for each student.

Students in this course will have the opportunity to establish connections with professionals in the field that can provide them with valuable networking opportunities and industry perspectives. Students will complete this course with not only a theoretical understanding of design principles but also the practical skills and industry awareness necessary for a successful career in graphic/ Interactive design. This course will Equip students with knowledge about the current job market, industry trends, and potential career paths they wish to follow after high school if they choose.

Course: Weekly Update/School Website Production

Credit: 1.00

Prerequisite: Passed Media Editing with a C or better and must be a Junior/Senior.

Description: This class will allow students to maximize their creativity with multimedia. Students will work on video projects that will be viewed by the high school. Students will also update the school website with photos and other pertinent information.

Course: Coding I/Introduction to Computer Science in JavaScript 1

Credit: 0.50

Prerequisite: Completion of Computer Applications with a C or better. And must be Sophomore/Junior/Senior

Description: This course utilizes a blended classroom approach. The content is fully web-based, with students writing and running code in the browser. An Introduction to Computer Science in JavaScript 1 teaches the foundations of computer science and basic programming, with an emphasis on helping students develop logical thinking and problem solving skills through JavaScript. Upon completion of this course, students will have a basic understanding in JavaScript.

Course: Coding II/Introduction to Computer Science in JavaScript 2

Credit: 0.50

Prerequisite: Coding I with a C or better and must be a Sophomore/Junior/Senior

Description: This course utilizes a blended classroom approach. The content is fully web-based, with students writing and running code in the browser. An Introduction to Computer Science in JavaScript 2 continues teaching the fundamentals of computer programming as well as some advanced features of the JavaScript language. Upon completion of this course, students will have learned material equivalent to a semester of college introductory course in Computer Science and be able to program in JavaScript.

Course: Introduction to Computer Science in Python 1

Credit: 0.50

Prerequisite: Computer Applications with a C or better and Junior/Senior

Description: This course utilizes a blended classroom approach. The content is fully web-based, with students writing and running code in the browser. An introduction to Computer Science in Python 1 teaches the foundations of computer science and basic programming, with an emphasis on helping students develop logical thinking and problem solving. Upon completion of this course, students will have a basic understanding in Python.

Course: Introduction to Computer Science in Python 2

Credit: 0.50

Prerequisite: Introduction of Computer Science in Python 1 with a C or better and Junior/Senior

Description: This course utilizes a blended classroom approach. The content is fully web-based, with students writing and running code in the browser. An introduction to Computer Science in Python 2 teaches the fundamentals of computer programming as well as some advanced features of the Python language. Upon completion of this course, students will have learned material equivalent to a semester of college introductory course in Computer Science and be able to program in Python.

Course: Video Game Design

Credit: 0.50

Prerequisite: Coding II with a C or better and must be a Junior/Senior

Descriptions: This course utilizes a blended classroom approach. The content is fully web-based, with students writing and running code in the browser. The Video Game Design course teaches the foundation of creating video games in JavaScript.

Course: Mobile Apps

Credit: 0.50

Prerequisite: Coding II/Introduction to Computer Science in JavaScript 2 AND Web Design with a C or better in both and must be a Junior/Senior

Description: This course utilizes a blended classroom approach. The content is fully web-based, with students writing and running code in the browser. Students will learn the foundations for the React Native framework, components, and how to use components to create scalable, custom, and fast mobile applications. Students will also learn about important computer science topics including state changes using XML and stylesheet objects, mapping through objects, rendering dynamic data, and creating modular app layouts with flex.

Course: Introduction to Virtual Reality

Credit: 0.50

Prerequisite: Coding II/Introduction to Computer Science in JavaScript 2 OR Introduction to Computer Science in Python 2 with a C or better in both and must be a Junior/Senior.

Description: A web-based curriculum that is made up of a series of learning modules that cover the basics of creating virtual reality worlds using HTML and the A-Frame JavaScript library. Through this course, students will build their own virtual reality worlds that are compatible with VR devices, including smartphone VR headsets.

Course: 3D Printing I

Credit: 0.50

Prerequisite: Computer Applications with a C or better and Sophomore/Junior/Senior.

Description: This course will introduce students to the basics of working in a 3D environment. Students will use Fusion 360 to edit and create their own models and then prepare their design for 3D printing using slicing software.

Course: 3D Printing II

Credit: 0.50

Prerequisite: Successful completion of 3-D printing I and Sophomore/Junior/Senior.

Description: This course is a continuation of the basics of working in a 3D environment. Students will use Fusion 360 to edit and create their own models and then prepare their design for 3D printing using slicing software at a more advanced level.

Course: Introduction to Drones

Credit: 1.0

Prerequisite: Completion of Computer Application with a "C" or better and Sophomore/Junior/Senior.

Description: With a combination of class work and hands-on activities, students will explore many avenues of FPV drone flying. Students will be flying drones in this class. Some of the topics covered are career options with drones, flying etiquette, laws and regulations, and many maneuvers and tricks to perform when flying. Students will have an opportunity to participate in a drone racing competition. Through the competition, students will develop engineering, project management, entrepreneurship, graphic design and marketing skills. Students will practice flying drones for two different types of competitions while designing, fabricating and assembling a real flying drone through the use of 3D printing software. Students will be able to fly the drone they design.

Fine Arts

Course: Intro to Drawing

Credit: 0.50

Prerequisite: Freshman/Sophomore

Description: This course will teach the students basic drawing techniques and the fundamentals used as the base for all art mediums. As the foundation and blueprint to any art form, drawing will teach the students about proportion, line variation and intensity, and composition, as well as the elements and principles of design. Artistic mediums will consist primarily of black and white.

Course: Advanced Drawing

Credit: 0.50

Prerequisite: Intro to Drawing, Junior/Senior

Description: All advanced drawing students will be required to keep a sketchbook. This course will build upon the techniques and skills established in intro to drawing. Students will be introduced to color and new mediums. This course will develop conceptual thinking and encourage creative ideas.

Course: Intro to Painting

Credit: 0.50

Prerequisite: Intro to Drawing, Sophomore/Junior/Senior

Description: The course in painting will begin with fundamental concepts and competencies of the art form. The students will learn about color mixing and theory, painting styles and movements. The students will create personal and unique compositions and are encouraged to create deep subject matter both formally and conceptually. Students will work in watercolor and acrylic paint on paper and canvas.

Course: Intro to Ceramics

Credit: 0.50

Prerequisite: Freshman/Sophomore

Description: This course provides a three dimensional medium to the curriculum. Students will create personal pieces using basic coil and hand building techniques as well as slab building. They will experiment with different slips and glazes to add color.

Course: Advanced Ceramics

Credit: 0.50

Prerequisite: Intro to Ceramics with at least a B, Junior/Senior

Description: Students will learn more advanced coil building methods and create three dimensional pieces using advanced techniques. Conceptual thinking will be expanded and applied in this course.

Course: Crafts

Credit: 0.50

Prerequisite: Junior/Senior

Description: This class will cover the popular art form of American craft. Students will learn basic fundamentals such as composition, craftsmanship and explore the use of many different art materials and techniques.

Mediums used would vary from project to project including paper, paint, glass, clay and found material.

Course: Smartphone Photography

Credit: 0.50

Prerequisite: Junior/ Senior

Description: This course will teach the students basic photography techniques and the fundamentals used as the base for taking quality and meaningful photos as an art form. Topics covered will be light, composition, embracing imperfection, creative editing apps and how and where to print your photos. Students will be required to use a Smartphone for the class.

Music

Course: Band

Credit: 1.00

Prerequisite: None

Description: This is a year-long course that expands on the instrumental skills necessary to maximize the students' playing potential. Students in Band are expected to participate in performances throughout the school year as a major part of their grade. This course is open to any student in grades 9-12.

Course: Choir

Credit: 1.00

Prerequisite: None

Description: This is a year-long course that explores choral music from a wide variety of cultures and time periods through study and performance. The class emphasizes the basics of vocal technique, sight-reading, music theory, and music history. While a musical background is helpful, it is not required. Students in Choir are expected to participate in performances throughout the school year as a major part of their grade. This course is open to any student in grades 8-12

Course: The Music of the 60's, 70's, and 80's

Credit: 0.50

Prerequisite: Sophomore/ Junior/ Senior

Description: This course will be an in-depth study into the popular music genres of the 1960s, 70s and 80s. The genres will be discussed musically and societally, allowing the students to create a holistic view of music history throughout the years. Topics covered are the Folk genre, Rock n Roll Genre, Disco/Funk genre, Hip-hop and the societal events that helped this music be developed. Students will learn how to analyze this music harmonically and lyrically, and ultimately critique various musical styles.

Business

Course: Accounting I

Credit: 1.00

Prerequisite: C or better in Algebra I

Description: This course is an introduction to accounting. Students will learn the basic accounting cycle (analyzing and journalizing business transactions, posting, financial statements, closing entries, etc.), cash control and banking, payroll accounting, special journals, basic personal taxes and ethics. The course is on a digital platform and will involve cumulative projects as the course proceeds.

Course: Accounting II

Credit: 1.00

Prerequisite: Accounting I with teacher recommendation

Description: Students will begin with a review of the basic accounting cycle and ethics. Then building on these skills, students will learn accounting for a merchandising business. Other topics include accounting for short-term investments, notes receivables, inventories, property, plant and equipment assets, and long-term liabilities. Finally, they will analyze and interpret financial statements.

Physical Education/Health

Course: Physical Education 9 and 10

Credit: 0.25

Prerequisite: None

Description: This course provides students with the opportunity to participate in a variety of sports and movement activities. Students are encouraged to achieve personal fitness goals. Students will learn how to develop self-discipline and good sportsmanship.

Course: Health 9

Credit: 0.50

Prerequisite: None

Description: This course reviews information on a variety of health issues. Students will study topics that include mental and emotional health, dating violence, abuse, brain development, drugs, and sexually transmitted diseases.

Course: Physical Strength and Conditioning Education

Credit: 0.50

Prerequisite: Physical Education 9 and 10

Description: This course explores basic techniques and strategies of weight lifting and how physical activity enhances aerobic fitness. Students will increase muscular endurance, strength, flexibility, cardiovascular endurance, and cardiovascular strength.

Miscellaneous

Course: Personal Financial Management

Credit: 0.50

Prerequisite: Senior (required)

Description: Students will have an understanding of financial concepts, with practical application through activities and projects, will enable students to leave this course with applicable, useful skills for life. This course explores the basic personal financial needs of most individuals and emphasizes the basics of budgeting, saving, checking, investments, credit, credit cards, stock market investments, insurance, and paying and preparing income tax returns. This course is graded as Pass/Fail.

Course: ACT Prep

Credit: 0.50

Prerequisite: Junior/Senior

Description: Students will develop the confidence and knowledge needed to increase ACT test scores with *OnToCollege* online ACT Prep. The classroom teacher is a facilitator, resource, and support for students to complete the online course. This course is graded as Pass/Fail.

