MANISTEE HIGH SCHOOL
COURSE CATALOG

2026-2027

MANISTEE MIDDLE/HIGH SCHOOL
525 TWELFTH STREET
MANISTEE, MI 49660

Table of Contents

Graduation Requirements

Subject	Manistee Requirements	Course Offerings	State of Michigan Requirements
English	4 CREDITS	English I English II English III English IV	4 CREDITS
Mathematics	4 CREDITS	Algebra I Geometry Algebra II Senior Year Math	4 CREDITS
Science	3 CREDITS	Physical Science Biology Chemistry or Physics	3 CREDITS
Social Studies	*3.5 CREDITS	US History World Studies Economics US Government Current World Affairs	3 CREDITS
Physical Education	½ CREDIT	HS PE	½ CREDIT
Health Education	½ CREDIT	High School Health	½ CREDIT
Visual Performing Applied Arts (VPAA)	1 CREDIT	Multiple options; see course descriptions under VPAA heading	1 CREDIT
World Language (WL)	2 CREDITS **OR** 1 CREDIT OF WL AND 1 CREDIT OF CTE **OR** 1 CREDIT OF WL AND 1 CREDIT OF VPAA	Spanish I Spanish II Online options available; see course descriptions under WL heading	2 CREDITS **OR** 1 CREDIT OF WL AND 1 CREDIT OF CTE **OR** 1 CREDIT OF WL AND 1 CREDIT OF VPAA
ADDITIONAL REQUIRED CREDITS	*2.5 CREDITS	Multiple Elective Options	
Total Required: 21 Credits			

** Manistee High School requires three additional credits beyond the Michigan Merit Curriculum for graduation. These include 0.5 credits in Current World Affairs and 2.5 credits in electives.*

Four-Year Academic Planning Guide

Listed below are the class options available to students as they advance through each grade level in high school. This is a typical four year plan which serves as a suggested guideline but can be adjusted to meet the individual needs of students. Teacher recommendation and/or NWEA scores may aid in determining advanced placement options. Students should work closely with their counselor, teachers, and families to ensure they select courses that align with their academic goals, interests, and future plans.

9th Grade Courses
Algebra I
Physical Science **OR** Biology
English I
US History
Sem. I: Health **Sem. II:** Physical Education
Spanish I **OR** VPAA (Band)

** If a student takes Biology in 9th grade, they are required to take Physics instead of Physical Science.*

10th Grade Courses
Geometry
Biology **OR** Chemistry
English II
World Studies
Spanish I **OR** Spanish II **OR** VPAA
VPAA (Band) **OR** Algebra II

11th Grade Courses
Algebra II **OR** Pre-Calculus/Trigonometry
Chemistry **OR** Physics
English III **OR** Advanced English III
Sem. I: Economics **Sem. II:** US Government
VPAA (Band) **OR** Elective
Elective

12th Grade Courses
Sem I: Current World Affairs **Sem II:** Elective
English IV **OR** Advanced English IV **OR** AP English Literature
Elective **OR** AP Calculus
Elective **OR** Spanish II **OR** VPAA (Band)
Elective
Elective

EDUCATIONAL DEVELOPMENT PLANS (EDPs)

Starting in grade 7, it is a state requirement that students have an Educational Development Plan to help students plan for after high school. These "living" documents, updated as student interests and abilities become more obvious and focused. Each year, students have the opportunity to review and revise their plan. MMHS uses EDPs for transition planning for students with IEPs, CTE student selection, work study opportunities, and personal curriculums.

Xello, a K-12 online college and career readiness platform, is what MMHS uses to develop these EDPs for students. Xello allows students to explore future paths, build essential skills, and create personalized plans for success, connecting their interests and strengths to potential careers, post-secondary education, and work-based learning opportunities through interactive lessons, assessments, and planning tools. The outline below demonstrates what is expected of each grade level in regards to Xello completion.

Grade 9	**Grade 10**
1. Getting Experience Lesson 2. Workplace Skills & Attitudes Lesson 3. Work Values Lesson 4. Personality Style Quiz 5. Mission Complete Quiz 6. Personality Styles Lesson 7. Careers 7 Lifestyle Costs Lesson	1. Career Demand Lesson 2. Entrepreneurial Skills Lesson 3. Save Majors 4. Program Prospects Lesson 5. Job Interviews Lesson 6. Work/Life Balance Lesson
Grade 11	**Grade 12**
1. Save Colleges 2. Choosing a College Lesson 3. Career Path Choices Lesson 4. Defining Success Lesson 5. Career Backup Plans Lesson	Students should focus on completing the necessary steps to reach the next step in their post-secondary plans (college applications, FAFSA, resume building, etc). Crew Time teachers will use tools in Xello to help seniors finalize their post-secondary plans.

COURSE OFFERINGS

CREW TIME

ENGLISH
English I
English II
English III/Ad. English III
English IV/Ad. English IV/AP English Literature & Composition

MATHEMATICS
Algebra I
Geometry
Algebra II (SYM)
Senior Year Math (SYM)

SCIENCE
Physical Science
Biology
Chemistry (SYM)
Physics (SYM)

SOCIAL STUDIES
US History
World Studies
Economics (SYM)
US Government
Current World Affairs

WORLD LANGUAGE (WL): 2-4 classes required
Spanish I
Spanish II
Other languages available the MHS MI Virtual

PHYSICAL EDUCATION
Physical Education
Health

VISUAL PERFORMING APPLIED ARTS (VPAA): 2 classes required
Choir
Jazz Band
Symphonic Band
Theater
All Arts
Ceramics/Pottery
Drawing/Painting
Independent Study Art
Creative Writing
Media Makers: Video Production
Speech
Yearbook Publications

CAREER TECH EDUCATION (CTE)
Agriscience (SYM)
Allied Health Technology (SYM)
Automotive (SYM)
Construction Trades (SYM)
Design, Fabrication, & Welding (SYM)
Digital Media (SYM)
Educator Academy
Graphic Communications (SYM)
Health Occupations (SYM)
Hospitality Management/Culinary Arts (SYM)
IT: Networking Technologies (SYM)
Public Safety/Protective Services (SYM)

ELECTIVES
Advanced Placement (AP) Courses:
- AP Calculus (SYM)
- AP Chemistry (SYM)
- AP Computer Science Principles (SYM)
- AP Environmental Science (SYM)
- AP Psychology
- AP U.S. History

Film Study
Independent Study E-Journalism
Harry Potter Life Skills
Novel Study
Human Anatomy & Physiology
Accounting (SYM)
Iphone/Android App Inventor (SYM)
Pre-Calculus/Trigonometry (SYM)
Programming in Python (SYM)
Statistics (SYM)
STEM I (SYM)
Sports History
Extreme Fitness
Lifetime Sports

PRIOR ARRANGEMENTS
Credit Recovery
Dual Enrollment (SYM)
Independent Study
MHS MI Virtual (SYM)
Peer Mentoring
Work Study (SYM)

**SYM means that the course meets the diploma requirements for a senior math experience*

COURSE DESCRIPTIONS

CREW TIME

CREW TIME (two semesters, required)
Grade Level: 9, 10, 11, 12
Prerequisites: None

The purpose of Crew Time is to provide all students with opportunities for academic support, career exploration, and the development of social-emotional learning skills. Support may include targeted interventions, student organization, and time for makeup work. Crew Time serves as an extension of the academic programs at Manistee Middle High School and helps foster strong student–student and student–teacher relationships.

ENGLISH

ENGLISH I (two semesters, required)
Grade Level: 9, 10, 11, 12
Prerequisites: None

The aim of this course is to help students develop a deeper awareness of reading, writing, and language skills essential to all students. Emphasis is on the development of individual reading and writing skills for a variety of tasks and purposes. Students develop these skills through reading, analyzing, and emulating styles and techniques found in a variety of genres including the short story, the novel, drama and poetry. Writing assignments include literary analysis, compositions, creative writing, reflective journals as well as various other shorter assignments.

ENGLISH II (two semesters, required)
Grade Level: 10, 11, 12
Prerequisites: None

This course is designed to improve student writing by exploring the writing process and by reading and analyzing various forms of literature. Reading improvement and comprehension will be developed through weekly reading activities and sessions of silent sustained reading. The literary genres covered will be plays; expository, persuasive and narrative essays; novels, and short stories. Written and oral communication will be addressed through a variety of activities.

ENGLISH III (two semesters, required)
Grade Level: 11, 12
Prerequisites: None

This course is designed for the community college level bound student and the emphasis is on reading skills, different genres of literature (the short story, the novel and the play), visual literacy, vocabulary development and writing (literature journals, paragraphs, essays and reports). The class will take a thematic approach.

ADVANCED ENGLISH III (two semesters)
Grade Level: 11
Prerequisites: English II, Recommended C+ average in English II

This course is designed for the university bound student and the emphasis is on critical reading skills, literature analysis of the short story, the novel, drama and poetry, vocabulary development and writing responses to literature in the form of short essays and the four modes of discourse. An independent reading project component is part of the class.

ENGLISH IV (two semesters, required)
Grade Level: 12
Prerequisites: None

This course is modeled after a typical English course at the community college level. A variety of different texts (novels, short stories, news articles, etc) will complement the writing curriculum as prompts for the student's own personal essays. The four styles of writing will be the focus of the course: Descriptive, Narrative, Expository, and Argumentative. Term B will focus on the research paper.

ADVANCED ENGLISH IV (two semesters)
Grade Level: 12
Prerequisites: Recommended C+ average in Advanced English III

This writing-based course is designed for university bound students. Several novels, poems, and short stories will be used for in-depth literary thesis papers. Term A will focus on literary analysis, while Term B will focus on the research paper. Both terms require a comprehensive term paper.

AP ENGLISH LITERATURE AND COMPOSITION (two semesters)
Grade Level: 12
Prerequisites: Teacher approval

This Advanced Placement course is designed for the college bound student who is desirous of a faster paced, more in-depth study of the various forms of literature. The literary essay form will be emphasized when writing about literature. Students will learn to develop individual thesis papers and a final research/analysis paper/project is required. Students will also engage in in-depth discussions about works studied. The AP exam is offered in May for possible college credit. *Note: The number of college credits is determined by the college the student will be attending.*

MATHEMATICS

ALGEBRA I (two semesters, required)
Grade Level: 9, 10, 11, 12
Prerequisites: None

The objective of this class is to help the student understand the basic structure of algebra and to be able to readily apply the techniques and skills learned to real world situations. Topics to be covered include: algebraic expressions, solving equations (linear and quadratic), systems of equations, graphing, inequalities, as well as other areas of study.

GEOMETRY (two semesters, required)
Grade Level: 9, 10, 11, 12
Prerequisites: None

The student in Geometry is exposed to the nature of a deductive system. Topics to be covered include: basics of geometry, investigating geometric polygons such as triangles and quadrilaterals, transformations, measurements in planes and space, deductive and inductive reasoning, properties of parallel lines, proofs which includes proving triangles congruent, similarity, right triangle trigonometry, and circles.

ALGEBRA II (two semesters, required)
Grade Level: 11, 12
Prerequisites: None

The main goal of this course is to strengthen basic computational skills and prepare students to be successful in a first year college algebra course. This course continues and deepens the experience with linear, quadratic, and exponential functions. Students will be introduced to basic probability and statistics principles. Exponential, logarithmic, rational, radical, polynomial, and trigonometric functions will be explored graphically with an emphasis on modeling and solving real world applications.

SENIOR YEAR MATH (one or two semesters, required)
Grade Level: 12
Prerequisite: see specific course description

The Michigan Merit Curriculum (MMC) requires 12th grade students to have a math experience their senior year. Below is a list of courses that fulfill this requirement. The course descriptions can be found under the appropriate heading listed on page 6.

Accounting
Algebra II
AP Calculus
AP Chemistry
AP Computer Science A (Offered 27/28; SYM)
AP Computer Science Principles
Chemistry
CTE Agriscience
CTE Allied Health Technology
CTE Automotive
CTE Construction Trades
CTE Design, Fabrication, & Welding
CTE Digital Media
CTE Graphic Communications
CTE Health Occupations
CTE Hospitality Management/Culinary Arts
CTE IT: Networking Technologies
CTE Public Safety/Protective Services
Dual Enrollment*
Economics
Iphone/Android App Inventor
MHS MI Virtual*
Physics
Pre-Calculus/Trigonometry
Programming in Python
Statistics
Work Study

**Some MHS MI Virtual or Dual Enrollment courses may fulfill this requirement.*

SCIENCE

PHYSICAL SCIENCE (two semesters, required)
Grade Level: 9, 10, 11, 12
Prerequisites: None

This required course follows the Michigan content standards for Physical Science and is designed to prepare students for further study in the sciences during high school and equip students with the skills needed to pursue post-secondary education. The content in this course examines the relationships between forces, energy and matter. While studying energy, areas we will cover motion, Newton's laws, gravity, projectile motion, energy forms and transformations, waves, the electromagnetic spectrum, and electricity. Areas we will cover while studying matter include atomic structure, the Periodic Table, chemical bonding, chemical formulas, chemical equations, properties and changes of matter, acids and bases, polymers, and nuclear chemistry. Many of these concepts will be reinforced by applying them in the laboratory. Students will learn to approach and solve problems scientifically. Note-taking, homework, and good study habits will be an integral part of the course.

BIOLOGY (two semesters, required)
Grade Level: 9, 10, 11, 12
Prerequisites: None

This required course follows the Michigan content standards for Biology and is designed to prepare students for further study in the sciences during high school and equip students with the skills needed to pursue post-secondary education. This course's content will cover: cell structure and function; bacteria & viruses; genetics; evolution; ecology; and human body system. Many of these concepts will be reinforced by applying them in the laboratory. Students will learn to approach and solve problems scientifically. Note taking, homework, and good study habits will be an integral part of the course.

CHEMISTRY (two semesters)
Grade Level: 10, 11, 12
Prerequisites: None, Algebra I recommended

Chemistry is the study of the structure of matter and the changes this matter undergoes. The course follows the Michigan content standards for Chemistry and includes: a study of matter and energy, atomic structure, the elements, chemical reactions and equations, and the nature of solids, liquids, and gases. This course will prepare students for post-secondary study in science by focusing heavily on concepts, understanding, and the development of applied math skills. The laboratory is an important part of the course and will serve to enhance the material covered in the classroom. Students will perform a variety of hands-on chemical experiments on their own and learn to work safely with chemicals and lab equipment.

PHYSICS (two semesters)
Grade Level: 11, 12
Prerequisites: None, Algebra I, Geometry, and Algebra II recommended

This class is a traditional high school physics class. This class is both conceptual and mathematical in nature and involves a large amount of problem solving. The topics to be covered are: motion, Newtonian mechanics, special and general relativity, sound, electricity and magnetism and heat. Labs and projects are an integral part of this class. Good study skills and self-motivation are expected of any student taking physics.

SOCIAL STUDIES

U.S. HISTORY (two semesters, required)
Grade Level: 9, 10, 11, 12
Prerequisites: None

This is a survey course, which covers US History during the 20th century. Much emphasis and time is placed on the United States' emergence as a modern nation and a world leader. World conflicts, which have affected the history, economic development and society of the United States, are also analyzed.

WORLD STUDIES (two semesters, required)
Grade Level: 10, 11, 12
Prerequisites: None

A comprehensive study of the world. In each of four units (Middle East, East Asia, South Asia & Europe) students learn about the region's geography, history and traditions, as well as the role of religion in the world today.

ECONOMICS (one semester, required)
Grade Level: 11, 12
Prerequisites: None

Economics is a required course designed to survey economic principles and theory. Topics include: macroeconomics, money, banking and finance, taxation & government spending, and international economic systems. Students will also learn how to make practical economic decisions including credit card use and car buying. *Starting with the Class of 2028, this course will fulfill the personal finance graduation requirement.*

UNITED STATES GOVERNMENT (one semester, required)
Grade Level: 11, 12
Prerequisites: None

United States Government is a required course containing the study of local, state, and national governments. The structure and function of the three branches of government on all levels are reviewed. The major purpose of this semester course is to increase political knowledge and political behavior so that each student can become an active, contributing and knowledgeable citizen.

CURRENT WORLD AFFAIRS (one semester, required)
Grade Level: 12
Prerequisites: None

This Senior required course is a blend of geography and current events that seeks to develop habits of understanding events locally, at the state, national and international levels. An emphasis is placed on seeking moderate sources and checking stories for facts. A variety of activities will challenge students to understand what is happening, where it is happening, and why people might see and react differently.

WORLD LANGUAGES

SPANISH I (two semesters)
Grade Level: 9, 10, 11, 12
Prerequisites: None

Spanish I is a beginner-level Spanish class. The class emphasizes listening and reading with some practice in speaking and writing while being immersed in the language. In addition, through reading and listening to Spanish, students will learn about the culture and geography of the Spanish speaking world. Upon completion, students should achieve a novice mid level of proficiency.

SPANISH II (two semesters)
Grade Level: 10, 11, 12
Prerequisites: Spanish I

In Spanish II students will advance their Spanish reading and listening abilities with increasingly complicated texts. Practice in speaking and writing will also increase. In addition, students will learn to communicate and understand texts from a variety of points of view and in a variety of tenses. Texts will continue to focus on cultural topics from the Spanish-speaking world. Upon completion of Spanish II, students should achieve a novice high level of proficiency.

MI VIRTUAL LANGUAGE (two to four semesters)
Grade Level: 9, 10, 11, 12
Prerequisite: No previous failed online course

Students may take a language through Michigan (MI) Virtual in order to fulfill the World Language graduation requirement. These classes are designed by MI Virtual instructors and adhere to MI virtual policies.

PHYSICAL EDUCATION

PHYSICAL EDUCATION (one semester, required)
Grade Level: 9, 10, 11, 12
Prerequisites: None

This is primarily a 9th grade class that incorporates both physical fitness and team sports. Students spend two days a week on individual fitness programs (this includes running, weight room, speed & jump training, etc). Two days a week are spent playing team sports (including basic rules, team strategies and safety guidelines.) A swim unit will be utilized for fitness activities, stroke development, aquatic safety and recreation. This class is offered every term.

HEALTH (one semester, required)
Grade Level: 9, 10, 11, 12
Prerequisites: None

Health is divided into three elements. Physical health – how all parts and systems of the body work together. Mental health – how you feel about yourself and how well you relate to others. Social health – dealing with the demands of daily life and influences.

** Students may take only one PE course per semester unless approved by the Principal.*

VISUAL PERFORMING APPLIED ARTS (VPAA)

CHOIR (two semesters, repeatable)
Grade Level: 9, 10, 11, 12

Choir is a class where you will learn and grow your skills as a singer by gaining experience and strengthening your voice and talents. Students work together to create beautiful music in a variety of genres from classical to contemporary. Active participation is expected and required. Students explore the many ways to use and expand his/her voice and learn to sing parts in harmony with others, as well as reading music and rhythms. We also have several performances throughout the year, and students are expected to be at, in their proper uniform attire at each performance. This includes in school and out of school performances; Holiday Concert, Caroling, Festival etc.

JAZZ BAND (two semesters, repeatable)
Grade Level: 9, 10, 11, 12
Prerequisites: Teacher approval

Students electing Jazz Band should have proficiency in a Jazz Instrument (Saxophone, Trumpet, Trombone, Drumset, Bass, Guitar, Piano, or Percussion) and desire to improve through participation in the instrumental program. This class will meet outside of the school day twice per week. Members are expected to participate in all scheduled performances and rehearsals scheduled outside the school day. Students are expected to participate in two semesters per year.

**Participation can be extended to middle school students at the discretion of the instructor.*
**Jazz Band will be offered for 1/4 of a credit per semester (2 days a week class- schedule/time TBD)*

SYMPHONIC BAND (two semesters, repeatable)
Grade Level: 9, 10, 11, 12
Prerequisites: Teacher approval

Students electing Symphonic Band should have proficiency in and desire to improve through participation in the instrumental program consisting of the marching band and concert band. Self-discipline, serious commitment, and active participation are required. Members are expected to participate in all scheduled performances and rehearsals scheduled outside the school day. Students are expected to participate in two semesters per year.

MEDIA MAKERS: VIDEO PRODUCTION (one semester)
Grade Level: 10, 11, 12
Prerequisites: None

Lights, camera, creativity! In this hands-on class, students will explore audio and visual storytelling. From filming and editing their own videos to learning the secrets of compelling visual storytelling techniques, students will build a strong foundation in media production. They'll also dive into the world of internet broadcasting by tools to create quality live streams such as podcasts, news, and/or game-streaming. To top it off, students will study popular film genres to see the storytelling techniques professionals use to bring their stories to life on screen. Students should expect to complete short assignments outside of class time, this course is a great fit for those who are self-motivated and enthusiastic about media creation.

THEATER ARTS (two semesters, repeatable)
Grade Level: 9, 10, 11, 12
Prerequisites: None

Students will explore the theater arts from script analysis to character development as well as the technical sides of things like set and lighting design and costuming and props. Students will be able to be a part of preparing elements for the theater season (fall play or spring musical) depending on which semester they participate in the class.

ALL ARTS (one semester, repeatable)
Grade Level: 9, 10, 11, 12
Prerequisites: None

This course offers an introduction to the basic techniques designed to enable students to identify, create, and enjoy a well rounded sampling of the most important art mediums. This course is well suited for the student that wants to explore art's many possibilities, before seeking further specialized studies. Students will quickly discover the strong interrelationship between art and other academic subjects. Units and projects will include Drawing, Painting, Design, Scratch Board, Relief Printmaking, Collage, Art History, and Small Sculpture.

CERAMICS/POTTERY (one semester, repeatable)
Grade Level: 9, 10, 11, 12
Prerequisite: Drawing Skill to communicate visual ideas

3D exploration into Sculpture methods – construction, casting, relief and craving. 3D/Clay is an introduction to basic clay and sculptural clay techniques. Clay preparation, hand building, wheel techniques, ceramic form and design, some glaze calculation and kiln firing will be studied. This class is the foundation for further clay study.

DRAWING/PAINTING (one semester, repeatable)
Grade Level: 9, 10, 11, 12
Prerequisites: None

Drawing is an introduction to basic drawing techniques. The basic elements of design and principles of art will be studied with use of pen and ink, charcoal, graphite, conte pastels, rubbing and blending tools, as well as some art history (Drawing is the foundation for all other aspects found within the Visual Arts). Painting examines fundamental principles, methods, and materials of painting. This study develops perceptual abilities, sensitivity to color, and compositional ideas within the context of subject matter. The mediums of acrylic and watercolor are explored. Art History continues to be explored.

INDEPENDENT STUDY ART (one-two semesters per school year, repeatable)
Grade Level: 11, 12
Prerequisites: Completion of all advanced studio offerings and teacher approval.

These classes are for the truly visual student who is considering art school and the visual arts as a career. Advanced color theory and design, painting, printmaking, clay and sculpture are employed. Continued self-development in composition is emphasized. Personal style is also emphasized both in perceptual and conceptual areas.

CREATIVE WRITING (one semester)
Grade Level: 10, 11, 12
Prerequisites: None

Students will hone their creative writing skills through the completion of several projects of varying length and format. The tools and techniques of dialogue, description, characterization, and poetry will be covered. Students will be required to complete the writing process for all projects, including sharing one's work.

SPEECH (one semester)
Grade Level: 10, 11, 12
Prerequisites: None

In this course, students will develop essential communication skills through various forms of public speaking and presentations. This class will emphasize effective verbal and non-verbal techniques, critical thinking, and persuasive argumentation, preparing students for both confident and articulate expression in both academic and real-world settings.

YEARBOOK PUBLICATIONS (two semesters, repeatable)
Grade Level: 11, 12
Prerequisites: Teacher approval

In this course, students learn skills in computer applications, advertising, marketing, layout design, photography, and copy writing. Students apply all of these skills to design, publish, and distribute each new school year's edition of the yearbook. Because the yearbook covers all school events, some work outside of school hours is expected (to photograph and report on games, dances, extra curricular activities, and other after school or evening events). This course includes an audio/video component.

SUMMIT CAREER TECH EDUCATION

AGRISCIENCE (two semesters, two periods)
Grade Level: 11, 12
Prerequisites: None

In this course, students will care for a variety of different animals in a fully equipped barn. Students will learn how to give animals shots, groom them, and perhaps even help in the delivery process. This program also has a strong horticulture focus as well as natural resources. Through this course, students have the opportunity to develop leadership skills and earn scholarships by participating in FFA, a national organization for students in agriculture education.

ALLIED HEALTH TECHNOLOGY (two semesters, two periods)
Grade Level: 12
Prerequisites: None

The Allied Health Technology program is a health care occupations cluster. This program is academically challenging but success is highly achievable. Students, after mastering the "CORE" tasks, move into progressively more specific and/or advanced areas of instruction. The "CORE" curriculum is designed to provide students with the concepts, knowledge, and attitudes basic to further progression in the job specific area. CORE skills are broad and transferable and include the following objectives: academic foundation, communication, systems, employability skills, legal and ethical responsibilities, and safety practices. Students who wish to take a second year of Allied Health must have the instructor's approval.

AUTOMOTIVE (two semesters, two periods)
Grade Level: 11, 12
Prerequisites: None

Automotive Technology covers the mechanical engine, drivetrain, brakes, heating and cooling, ignition, lubrication, exhaust, suspension and steering systems. Upon completion of the course, the student will have been introduced to the various parts of these systems and be able to service them. This class is for the student who is entering the field of automotive education or employment, or who just wishes to have a general knowledge of all the various parts of the automobile. Students wishing to take a second year of Automotive Technology must have the instructor's approval.

CONSTRUCTION TRADES (two semesters, two periods)
Grade Level: 11, 12
Prerequisites: None

Introduction to construction materials, tools, equipment, design blueprint, construction practices, business management, green technology, and residential construction practices. Students will study building codes, building permits, estimate costs of building structures, and will plan and construct a building on a community site.

DESIGN, FABRICATION, & WELDING (two semesters, two periods)
Grade Level: 11, 12
Prerequisites: None

New state program to address the needs for a multi-skilled/multi-craft worker. Includes systems integration, system design, electrical/motor control, mechanical, fluid power, pneumatics, robotics, electronics/sensors, manufacturing, machining, quality/measurement, and blueprint/schematic/drafting. Also, an emphasis is placed on “hands on” laboratory experiences in welding. Instruction includes basic safety, principles, and introduction to flat and vertical positions with mild steel and low hydrogen electrodes. In addition, operation and application of arc welding, oxyacetylene welding, and brazing and cutting will be experienced. Students must pass a welding metal break test for all laboratory projects.

DIGITAL MEDIA (two semesters, two periods)
Grade Level: 11, 12
Prerequisites: None

A Project-based class focused on several different areas of technology and media, creating websites, creating and editing videos, animation and flash animation, photo editing, audio mixing, and creating and printing designs.

EDUCATOR ACADEMY
Grade Level: 11, 12
Prerequisites: None

Provides students with opportunities to gain the critical knowledge and skills needed to become a teacher. Students paired with mentor teachers within their home district, helping to guide and support them in classroom preparation including lesson planning, classroom management and student engagement.

GRAPHIC COMMUNICATIONS (two semesters, two periods)
Grade Level: 11, 12
Prerequisites: None, recommended English, Computers, Math and Art

Graphic arts is an in-depth study of printing and allied trades. Students will receive training in safety practices, job planning and layout, electronic desktop publishing, darkroom photography, offset printing, and silk printing. The class structure is set up to resemble an industrial situation.

HEALTH OCCUPATIONS
Grade Level: 11, 12
Prerequisites: None

Introduces students to the healthcare industry and its careers. Focused on Health career exploration, health care professional behavior, intro to human anatomy, basic patient care skills, medical terminology and industry-related certification standards.

HOSPITALITY MANAGEMENT/CULINARY ARTS (two semesters, two periods)
Grade Level: 11, 12
Prerequisites: None, recommended Business Math, Science, Sociology and Psychology

Food service operations are one of the fastest growing industries in the United States. Our Hospitality Management students gain practical hands-on knowledge and skills with a relevant and industry driving curriculum. Our students receive an introduction to culinary arts and small business management. Included in our curriculum are crucial food service concepts such as customer relations, cost accounting, controlling food costs, marketing, baking, knife skills and food preparation. Qualified and interested students have an opportunity to compete at both the state and national ProStart invitational. Scholarship opportunities are available from numerous culinary schools and the National Restaurant Association Educational foundation. All students have an opportunity to receive nationally recognized certificates for ProStart and ServSafe. A ServSafe certificate meets Michigan health code regulations for demonstrating the knowledge of foodborne disease prevention. Students who receive certificates qualify for articulation credits at WSCC, FSU and numerous colleges and universities across the country.

IT: NETWORKING TECHNOLOGIES (two semesters, two periods)
Grade Level: 11, 12
Prerequisites: None

Students will work with computer hardware/components, operating systems, and networks as well as learn how to improve cyber security and troubleshooting techniques in real-world scenarios. Also as part of the program, students will work within their own IT technician shop, which will provide IT support and services to an on-site staff. A career in IT directly aligns with local industry demands and there are six IT related careers listed on the Michigan's Hot 50 list, which forecasts Michigan's high-demand and high-wage careers through 2018. Through this program, students will also have the opportunity to obtain CompTia A+ and/Network+certifications, which are highly marketable certifications within this profession. *Starting with the Class of 2027, this will fulfill the computer science course offering required by the State of Michigan.*

PUBLIC SAFETY/PROTECTIVE SERVICES (two semesters, two periods)
Grade Level: 11, 12
Prerequisites: None, recommend Physical Education, Sociology, Psychology

This course will provide an overview of the Criminal Justice System including Law Enforcement, Courts, Prosecution, Corrections and Juvenile Justice. The student will experience simulations and practical laboratory work in fingerprints, health and fitness requirements, basic CPR and Standard First Aid training, crime scene investigation, Law Enforcement Information Network (LEIN) operations, traffic operations, and the study of controlled substances and mock trials. Field trips may include visits to local courts, a prison, a county jail, and a State Police post. Guest speakers will be utilized to present criminal justice vocational options and real life applications of classroom information.

ELECTIVES

ADVANCED PLACEMENT (AP) COURSES:

AP CALCULUS (two semesters)
Grade Level: 12
Prerequisites: Teacher approval

AP Calculus is an advanced level calculus class preparing students for the AP calculus exam in the spring. In preparing students for the exam we will cover the curriculum of an advanced level college Calculus I class. Students who are successful in this class will be able to take the second semester Calculus II class at almost any university. Topics covered include: limits, derivatives, applications of derivatives, integration, and transcendental functions.

AP CHEMISTRY (two semesters)
Grade Level: 11, 12
Prerequisites: Teacher approval

This course is designed to be the equivalent of the general chemistry course usually taken during the first college year (two semesters). For some students, this course enables them to undertake, as freshmen, second-year work in the chemistry sequence at their institution or to register for courses in other fields where general chemistry is a prerequisite. The AP Chemistry course is meant to prepare students for the AP Chemistry Exam administered by the College Board. Successful completion of the exam may earn the student up to eight traditional credit hours at a college or university. Lab work is heavily emphasized and around 20% of class time will be used preparing, performing, and analyzing chemical experiments. Students will be introduced to a variety of new chemical techniques and equipment types.

AP COMPUTER SCIENCE A (two semesters, offered 2027-28 school year)
Grade Level: 10, 11, 12
Prerequisites: Teacher approval

The AP Computer Science A course covers topics typically found in a college-level first course in computer science, and provides a solid preparation for the AP Computer Science A examination. The course emphasis is on procedural abstraction, data abstraction, object-oriented design and programming methodology using the Java programming language, and the use of algorithms and data structures. Major topical areas include: control constructs, arrays and strings, class methods, the use of sorting and searching algorithms, recursion, and the use of standard Java class Libraries. *Starting with the Class of 2028, this course will fulfill the personal finance graduation requirement.*

AP COMPUTER SCIENCE PRINCIPLES (two semesters)
Grade Level: 10, 11, 12
Prerequisites: Teacher approval

AP Computer Science Principles is a course designed to prepare students who are new to computer science for the AP CS Principles exam. The course covers many topics including the Internet, Big Data and Privacy, and Programming and Algorithms. By successfully completing the course students can earn college credit at many colleges and universities. It is an advanced placement course appropriate for students in 9th-12th grade with only a prerequisite of Algebra I. No computer experience is necessary. *Starting with the Class of 2027, this will fulfill the computer science course offering required by the State of Michigan.*

Major Differences
AP Computer Science A is ideal for individuals who wish to pursue a career in areas like engineering, software development and web design. This is a more demanding course. It's a must for students who plan to pursue a college major in computer science or engineering.

AP Computer Science Principles is ideal for those students who are less interested in Java or who would like a big-picture view of computing. It can be an excellent choice for various careers and majors, including economics, library and information science, graphical design, and science.

AP ENVIRONMENTAL SCIENCE (two semesters)
Grade Level: 11, 12
Prerequisites: Teacher approval

The goal of AP Environmental Science is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them.

AP PSYCHOLOGY (two semesters)
Grade Level: 10, 11, 12
Prerequisites: Teacher approval

This course is an advanced placement behavioral/social science course. It is designed to study the entire content of a psychology text at an accelerated pace and prepare students for the national psychology AP test that takes place in late spring each year. Students will receive an AP suggested textbook entitled, Psychology, and be expected to do extensive research on current psychological issues using a variety of resources. Along with research, students will be expected to keep detailed notes on lecture and chapter content, engage in theory-based discussion and debate, examine relevant videos and participate in and lead classroom demonstrations. It is suggested that students have strong independent study skills.

AP US HISTORY (two semesters)
Grade Level: 11, 12
Prerequisites: Teacher approval, summer readings and/or assignments may be required

The AP U.S. History course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in U.S. history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students will study U.S. History starting with Pre-Columbian Society through the end of the Twentieth Century.

FILM STUDY (one semester)
Grade Level: 11, 12
Prerequisites: None

Introduction to the art and meaning of movies. The course teaches basic concepts and critical skills involved in interpreting film. Topics include film history, criticism, aesthetics, and technique. Class screenings include domestic and foreign films, and various short features, with emphasis on films of technical merit. Assessments are typically short quizzes and written responses (short papers).

INDEPENDENT STUDY E-JOURNALISM (one semester, repeatable)
Grade Level: 11, 12
Prerequisites: Teacher approval

E-Journalism is responsible for creating an electronic school newspaper, the *Mariner Chronicle*. Duties include covering all school events, writing articles and taking pictures. Since several articles are due each week, initiative and independence are crucial.

HARRY POTTER LIFE SKILLS (one semester)
Grade Level: 10, 11, 12
Prerequisites: None

This course will allow students to identify, apply, discuss, and write about the life skills developed in Harry Potter. In this class, we will do a mixture of reading excerpts from the novels, viewing portions of the movies, discussing the observations and interpretations, and writing analyses and papers that use claim, evidence, and commentary skills to develop and evaluate the skills and applications. Reading, writing, speaking, listening, and viewing are all skills that will be used.

NOVEL STUDY (one semester, repeatable)
Grade Level: 10, 11, 12
Prerequisites: None

This course offers an exploration of diverse literary works while encouraging students to engage deeply with texts through analysis, discussion, and creative responses. Students will examine themes, character development, and narrative techniques, while fostering a greater appreciation for literature and enhancing critical reading and writing skills.

HUMAN ANATOMY & PHYSIOLOGY (one semester)
Grade Level: 11, 12
Prerequisites: None

Anatomy and Physiology explores the branch of natural science dealing with the structural organization of living things. Topics include diving into the various systems of the human body, through case studies and exploratory activities, which teach how the body's systems are interrelated and help maintain homeostasis, as well as what happens when things go wrong.

ACCOUNTING (one semester)
Grade Level: 11, 12
Prerequisites: None

Accounting is the process of recording, classifying, and summarizing financial transactions for a business, which includes learning how to prepare financial statements and make financial decisions. It introduces students to basic business concepts like the entity concept (a business is separate from its owner), managing budgets, and understanding financial statements such as the balance sheet and income statement.

IPHONE/ANDROID APP INVENTOR (one semester)
Grade Level: 10, 11, 12
Prerequisites: None

This semester-long course introduces students to mobile app development using MIT App Inventor, a block-based programming platform. Students will learn fundamental programming concepts while creating functional Android apps, culminating in a capstone project of their own design. *Starting with the Class of 2027, this will fulfill the computer science course offering required by the State of Michigan.*

PRECALCULUS/TRIGONOMETRY (two semesters)
Grade Level: 11, 12
Prerequisites: Algebra II

Precalculus/Trigonometry 1 and 2 is a year-long course that focuses on an introduction to calculus with functions, graphs, limits, area under a curve, and rates of change. A focus on algebra is woven throughout the course. The students will study functions, inverse, composite, and piecewise-defined functions as well as investigate characteristics of functions and transformations of functions, and complex numbers. The trigonometry sections will cover (both coordinate and right triangle trig), trigonometric identities, graphs of trig functions, and polar coordinates.

PROGRAMMING IN PYTHON (one semester)
Grade Level: 10, 11, 12
Prerequisites: None

Introduction to Python Programming introduces students to the fundamentals of computer programming, with an emphasis on helping students develop logical thinking and problem-solving skills. Students begin by learning to design, code, and test their programs while applying mathematical concepts. Students then move to more advanced programming concepts and learn to create more powerful programs using functions, strings, data structures, file i/o operations, and objects. *Starting with the Class of 2027, this will fulfill the computer science course offering required by the State of Michigan.*

STATISTICS (one semester)
Grade Level: 11, 12
Prerequisites: None

Statistics is the math discipline focused on collecting, organizing, analyzing, interpreting, and presenting data. It involves learning to use both descriptive statistics to summarize data and inferential statistics to draw conclusions about a large population from a smaller sample. This includes understanding concepts like mean, median, and standard deviation, as well as probability, data visualization, and how to design studies.

STEM I (one semester)
Grade level: 10, 11, 12
Prerequisites: None

This hands-on STEM course introduces students to the engineering design process through a series of engaging real-world projects. Students will develop problem-solving skills, learn industry-standard design tools, and gain practical experience with modern fabrication techniques. The course emphasizes iterative design, project documentation, and collaborative teamwork—essential skills for future engineers. *Starting with the Class of 2027, this will fulfill the computer science course offering required by the State of Michigan.*

SPORTS HISTORY (one semester)
Grade Level: 10, 11, 12
Prerequisites: None

This course explores the rich history of sports from ancient civilizations to modern-day athletics, showing how games, competition, and physical activity have shaped cultures around the world. Students will learn how different sports were created, how they evolved over time, and how they reflect social, political, and technological changes. Pairing academic learning with physical experience, the course is designed in partnership with the Physical Education (PE) department. After studying the origins and background of each sport, students will participate in simplified, age-appropriate versions of the activities discussed. This active component helps students better understand gameplay, strategy, and cultural significance through hands-on practice.

EXTREME FITNESS (one semester, repeatable)
Grade Level: 10, 11, 12
Prerequisites: Physical Education, teacher approval

This course is open to all students who are committed to improving their overall fitness. Priority enrollment will be given to students who are not credit deficient. The course focuses on strength and conditioning through functional movements, agility and flexibility training. The primary goal of the course is to significantly improve and maintain students' athletic conditioning and overall fitness.

LIFETIME SPORTS (one semester, repeatable)
Grade Level: 10, 11, 12
Prerequisites: Physical Education

This course is designed for students who want to build the skills, knowledge, and appreciation needed to participate in physical activities they can enjoy throughout their lives. The course combines cooperative and competitive elements of team sports with the independence and personal skill development of individual lifetime activities. Students will participate in activities such as bowling, golf, disc golf, badminton, tennis, pickleball, and other recreational sports that promote lifelong fitness.

The class emphasizes skill development, rules and strategy, proper etiquette, and positive habits for physical wellness beyond high school. Students will take part in drills, friendly competitions, and small-sided games while learning how each activity supports long-term health, social connection, and active living. By the end of the semester, students will feel confident participating in a variety of lifetime sports.

PRIOR ARRANGEMENTS

CREDIT RECOVERY (summer school)
Grade Level: 9, 10, 11, 12
Prerequisites: Counselor recommendation

Students who fail a course may recover credit by taking the course through Canvas during summer school. Students identified as needing credit recovery will be invited to participate in summer school during the spring of the school year. Students who failed courses in Semester 2 of the previous school year or Semester 1 of the current school year will be invited to attend.

The school counselor will meet with seniors who are behind on credits to enroll in credit recovery courses in addition to their regular school schedule of the academic year. Seniors are typically assigned two courses at a time, though the school counseling office has discretion to assign additional courses as needed. Credit Recovery procedures are outlined in the student handbook.

DUAL ENROLLMENT (one semester, repeatable)
Grade Level: 9, 10, 11, 12
Prerequisites: Administrative approval
Paperwork Deadline: Fall Semester - Friday, May 22, 2026; Winter Semester - Friday, December 18, 2026

West Shore Community College (WSCC) Dual Enrollment: *WSCC Course Catalog*

Information regarding dual enrollment will be provided when released from WSCC. Students must apply to WSCC to dual enroll and complete an online orientation. All communication regarding dual enrollment courses will occur between the student and the college once the student is registered. Start and end dates of courses may differ from MHS course start and end dates. Students must fill out a Dual Enrollment Registration Request Form. After they register, they must fill out a Dual Enrollment Change of Schedule Form to add another course or drop a course they registered for. *The upcoming school year's courses are not yet available through WSCC. The link will update automatically when courses for the 2026/27 school year are released.*

INDEPENDENT STUDY (one semester, repeatable)
Grade Level: 9, 10, 11, 12
Prerequisites: Administrative approval
Paperwork Deadline: Fall Semester - Friday, May 22, 2026; Winter Semester - Friday, December 18, 2026

Independent Study is a student-driven course designed to provide an opportunity for self-directed learning in a specialized area of interest. Under the guidance of a supervising teacher, students will develop a learning plan that outlines objectives, timelines, and assessment methods. This course encourages critical thinking, research, and problem-solving while fostering independence and responsibility. Students may explore topics beyond the traditional curriculum, engage in project-based learning, or expand their knowledge in a subject area of choice. Regular progress check-ins with the supervising teacher are required to ensure accountability and achievement of learning goals. Students must fill out an Independent Study Application and submit it to the school counseling office for approval prior to the start of the semester.

MHS MI VIRTUAL (one semester, repeatable)
Grade Level: 9, 10, 11, 12
Prerequisites: Administrative approval
Paperwork Deadline: Fall Semester - Friday, May 22, 2026; Winter Semester - Friday, December 18, 2026

MI Virtual Courses: *MI Virtual Course Catalog*

Online Courses provide students with the opportunity to take coursework in a virtual learning environment, allowing for flexibility in scheduling and access to a broader range of subjects. These courses are offered through MI Virtual and align with state and district standards. Students enrolled in an online course are responsible for managing their coursework independently while receiving guidance from an assigned mentor or support staff within the school. Course content, assignments, and assessments are delivered through an online platform, and students must adhere to deadlines and participation requirements set by the online provider. Students must be self-motivated, organized, and proactive in seeking assistance when needed. Students must fill out the MHS MI Virtual Request Form and submit it to the school counseling office for approval prior to the start of the semester. *The upcoming school year's courses are not yet available through MI Virtual. The link will update automatically when courses for the 2026/27 school year are released.*

PEER MENTORING (one semester, repeatable)
Grade Level: 11, 12
Prerequisites: Application process and administrative approval
Paperwork Deadline: Fall Semester - Friday, May 22, 2026; Winter Semester - Friday, December 18, 2026

High School Mentoring is a leadership and service-based course that provides high school students the opportunity to mentor middle school students. Through structured interactions, mentors will support younger students in academic, social, and personal development, helping them navigate the transition to high school. This experience fosters responsibility, empathy, and teamwork while strengthening the school community. Peer mentors will be assigned to a small caseload of middle school aged students to check in with weekly. The Mentor Coordinator will provide training opportunities, and support throughout the semester. Students must fill out a Peer Mentoring Application and submit it to the school counseling office for approval prior to the start of the semester.

WORK STUDY (one or two semesters, up to three periods, repeatable)
Grade Level: 12
Prerequisites: Administrative approval
Enrollment Deadline: Fall Semester - Friday, May 22, 2026; Winter Semester - Friday, December 18, 2026

Students will engage in an internship aligned with their career and educational goals, following Michigan's Work-Based Learning standards. These internships help students build community connections and gain hands-on experience. To receive credit, students must adhere to the Work Study Guidelines detailed in both the MAPS Student Handbook and the Work Study Application. ***MHS provides the time for the opportunity for a work based learning experience; finding the actual internship and any required transportation to a work site is the responsibility of the student.***