

MHS



**“YOU CAN’T HIDE THAT
CARDINAL PRIDE!”**

**MILLINGTON HIGH SCHOOL
2024-2025
COURSE SELECTION GUIDE**

8780 Dean Drive
Millington, Michigan 48746

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MILLINGTON HIGH SCHOOL

MISSION STATEMENT

Millington High School staff is dedicated to creating a school environment that provides all students with the opportunities to achieve personal success and to become productive, goal-oriented, self-respecting, and caring members of our global society. Students will take ownership of their education and will develop the skills to become lifelong learners.

VISION STATEMENT

Millington High School is dedicated to providing a quality education that prepares all learners for a successful and productive future.

BELIEF STATEMENTS

- All students can learn.
- The staff will provide an organized, safe environment that is conducive to learning.
- Ongoing parental involvement and communication enhance student success.
- Monitoring, reporting, and evaluating student progress is an integral part of instructional time.
- The demonstration of integrity, honesty, and respect for others is a necessary foundation throughout the school community.
- Regular attendance is extremely important to academic achievement and is the joint responsibility of parents, students, and staff.
- Students have the opportunity to grow intellectually, socially, emotionally, and creatively at Millington High School.

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GRADUATION REQUIREMENTS

Credits are Required for Graduation:

21 Credits

Michigan Merit Curriculum

4 Credits Mathematics

4 Credits Language Arts

3 Credits Science

3 Credits Social Studies

2 Credits Foreign Language*

1 Credit Physical Education / Health

1 Credit Visual Performing Arts (VPA)

*Students may substitute a second credit of foreign language with an additional VPA course

Designing Your Schedule

This booklet is designed to give you an explanation of the courses offered at Millington High School. The courses offered in this booklet are those which have been approved by the Millington School Board. Please use this booklet as a guide to assist you in establishing course work that will keep you focused on your career pathway choice throughout your high school career. **Please note that this is a comprehensive guide of classes and not all the courses listed in this booklet will be offered at any one time.**

Education Development Plan (EDP)

An Educational Development Plan (EDP) documents an ongoing process in which a learner identifies both career goals and a plan of action to achieve them. The purpose of the EDP is for each learner to develop, document, and periodically update a unique plan of career and educational preparation, based on thoughtfully selected and attainable career goals and educational options. The plan will then provide guidance in taking effective steps to enter or to advance in a career pathway choice. Students are encouraged to revisit their EDP each year to make adjustments. EDPs are available for parents and students online at xello.world.

Early Graduation

Early graduation is only obtainable in cases where a student has completed the course work available to them at Millington High School. Early graduation is not a step to be taken lightly and is granted by the principal during the summer preceding the senior year. Application should be made at the time that the Course Selection Sheet is submitted. Applications are usually approved for students entering licensed or government approved apprenticeship programs (generally supervised by a company and union) and for students wishing to enter college, as a full-time student, a semester early and having completed course sequences offered at Millington High School.

Suggested Paths to Graduation

COLLEGE PREP	CAREER/TECH PREP
<p><u>9TH GRADE</u> English 9 US History Biology Geometry Health/PE Elective</p> <p><u>10TH GRADE</u> English 10 World History Chemistry Algebra 2 Spanish 1 Elective</p> <p><u>11TH GRADE</u> AP Language AP Chemistry or AP Biology Spanish 2 Honors Pre-Calculus Elective / Cardinal College / DE Elective / Cardinal College / DE</p> <p><u>12TH GRADE</u> AP Literature Economics / Civics AP Chemistry or AP Biology AP Calculus Elective / Cardinal College / DE Elective / Cardinal College / DE</p>	<p><u>9TH GRADE</u> English 9 US History Biology Algebra 1 Health/PE Elective</p> <p><u>10TH GRADE</u> English 10 World History Chemistry Geometry Spanish 1 Elective</p> <p><u>11TH GRADE</u> English 11 Algebra 2 Elective Tech Center Tech Center Tech Center</p> <p><u>12TH GRADE</u> English 12 Economics / Civics Elective Tech Center Tech Center Tech Center</p>

LIST OF NCAA APPROVED COURSES

Language Arts

English 9
English 10
English 11
English 12
AP Language
AP Literature
Creative Writing
Mythology

Math

Algebra I
Geometry
Algebra II
Honors Pre-Calculus
AP Calculus
AP Calculus II

Science

Honors Anatomy & Physiology
Biology
Chemistry
AP Biology
AP Chemistry
Physics
Forensic Science
Principles of Engineering
Aerospace Engineering

Social Studies

US History
World History
Civics
Economics
AP US History

Foreign Language

Spanish I
Spanish II

Students enrolled in MVHS courses will need to check if the course is NCAA approved and will need to provide a separate transcript from MVHS to NCAA. Please note that applied math and science courses are not accepted by NCAA.

MATH DEPARTMENT

Algebra I A/B	2 semesters	1.0 credit	9
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Algebra is a course designed to explore functions. Topics include but are not limited to systems, exponents, polynomials, linear functions, quadratics, radicals, factoring, radical and rational equations and all of the various graphs. This class prepares you for college.

Applied Algebra I A/B	2 semesters	1.0 credit	9
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Applied Algebra is a course designed to explore functions and is designed for students who need extra help mastering Algebra concepts. Topics include but are not limited to systems, exponents, polynomials, linear functions, quadratics, radicals, factoring, radical and rational equations and all of the various graphs. This class is not available for all students; eligibility is determined by math assessments as well as teacher recommendation.

Prerequisite: *Teacher/Counselor recommendation Only*

Geometry A/B	2 semesters	1.0 credit	9 10 11
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Geometry is a full-year course for all students who passed Algebra I. This course will develop a mathematical system based on definitions, postulates, properties of real numbers and theorems (proofs). The student will work with figures which include perpendicular lines, parallel lines, congruent triangles, similar polygons, angles, circles, and arcs. Other areas covered will include constructions, coordinate geometry, areas of polygons and circles, and the areas and volumes of solids. This class prepares you for college.

Prerequisite: *Credit in Algebra I*

Applied Geometry A/B	2 semesters	1.0 credit	9 10 11
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Applied Geometry is a full-year course designed for students who need help mastering mathematical concepts. This course will develop a mathematical system based on definitions, postulates, properties of real numbers and theorems (proofs). The student will work with figures which include perpendicular lines, parallel lines, congruent triangles, similar polygons, angles, circles, and arcs. Other areas covered will include constructions, coordinate geometry, areas of polygons and circles, and the areas and volumes of solids. This class is not available for all students; eligibility is determined by math assessments as well as teacher recommendation.

Prerequisite: *Teacher/Counselor recommendation Only*
Credit in Algebra I

Algebra II A/B	2 semesters	1.0 credit	10 11
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This year-long course is the next class in a sequence of courses designed for all students. Topics include basic operations with polynomials, solving equations of various degree, graphing both linear and quadratic equations, solving verbal problems, use of formulas, system of linear equations, exponents, radicals, logarithms, and trigonometry. Other topics that are covered are probability, the binomial theorem, matrices, and synthetic division. This course may be taken in concurrently with Geometry with instructor permission. This class prepares you for college.

Prerequisite: *Credit in Algebra I and Geometry*

Applied Algebra II A/B	2 semesters	1.0 credit	11 12
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This year-long course is the next class in a sequence of courses designed for students who need extra help mastering Algebra concepts. This course will include basic operations with polynomials, solving equations of various degree, graphing both linear and quadratic equations, system of linear equations solving verbal problems and the use of formulas. It will also cover exponents, radicals, logarithms, and trigonometry. Other topics that are covered are probability, the binomial theorem, matrices, and synthetic division. This class is not available for all students; eligibility is determined by math assessments as well as teacher recommendation.

Prerequisite: *Teacher/Counselor recommendation Only*
Credit in Algebra I and Geometry

Honors Pre-Calculus A/B	2 semesters	1.0 credit	11 12
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As the fourth class in a sequence of courses, Pre-Calculus is honors class designed to prepare the college-bound student mathematically. This course provides topics in elementary analysis with emphasis on theory, method, and application. Polynomial, rational, trigonometric, exponential, and logarithmic function are examined. Analytic geometry and conic sections, sequence, series polar coordinates are included along with vectors. This course will be graded on a 4.3 point grading scale.

Prerequisite: *Credit in Algebra I, Geometry, and Algebra II (recommended C- or above)*

AP Calculus A/B	2 semesters	1.0 credit	11 12
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This one-year course will provide the student with a solid background in the concepts involved in Calculus. Topics covered will include sequences, limits, functions, applications of limits, algebraic functions, maxima and minima, derivatives, velocity and acceleration, area volumes, and integration. Some pre-calculus will be embedded. This class will reinforce algebraic skills within pre-calculus and then will aid transition into calculus itself. This course will be graded on a five-point grading scale.

It should be noted that if a student drops the course at any time during the year or does not take the AP Exam, he or she will not be graded on a five-point scale. The cost for the AP Exam at this time is \$100.00.

Prerequisite: *Credit in Algebra I, Geometry, and Algebra II
Pre-Calculus (recommended C or above)*

Personal Finance A/B	2 semesters	1.0 credit	12
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This course will introduce students to money management skills and the financial planning process, and help students develop positive behaviors that are necessary to attaining financial maturity and achieving a secure future. Students will gain a working knowledge of the fundamentals of basic financial planning and money management. Topics may include college and career planning, budgeting and financial planning, retirement, health insurance, taxes, credit banking, savings, and investing.

Prerequisite: *Credit in Algebra I, Geometry, and Algebra II*

Probability and Statistics A/B	2 semesters	1.0 credit	11 12
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The purpose of Statistics is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Statistics is required in many medical related courses of studies, as well as, many business professions. The goal of this course is to establish a working knowledge of statistics before college. Students will be required to do presentations and group projects.

Prerequisite: *Credit in Algebra I, Geometry, and Algebra II (recommended B- or better)
Pre-Calculus*

ENGLISH – LANGUAGE ARTS DEPARTMENT

English 9 A/B	2 semesters	1.0 credit	9
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This is a required class for all 9th grade students. English 9 is a comprehensive year of reading literature, writing, and reviewing grammar and study skills. During the year students will work on library skills, vocabulary development and speaking skills. Special emphasis will be placed on learning to write essays. Assignments will include book reports and other types of formal writing.

English 10 A/B	2 semesters	1.0 credit	10
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During the year, a wide range of famous world literature is read and discussed. Students review the elements of the story development (symbolism, irony, mood, and tone) as they learn the basics of literary analysis. Outside reading or reports may be required. Primary areas of study include the short story, literary essays, plays and the novel. Vocabulary study, speech, sentence structure, and paragraph organization are all covered. Students are taught how to write a well-developed paragraph using various methods. The class will review and sharpen the writing skills of tenth graders.

Prerequisite: *Credit in English 9*

English 11 A/B	2 semesters	1.0 credit	11
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The purpose of this course is to give students an overview of America's great authors and literary works which are part of our American Heritage and to teach the principles of writing exemplified in American Literature. Semester one will cover Colonization through the Civil War and semester two will cover 1865 to the Present. Required assignments may include reports, essays, term papers, projects, group and creative writing.

Prerequisite: *Credit in English 9 and English 10*

English 12 A/B	2 semesters	1.0 credit	12
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This course is a chronological study of the Western World literature from ancient Greece to modern England and Europe. Students will become familiar with major European authors and their styles of writing. Along with the reading selections, writing assignments will be included. There is an additional focus on college and career planning where students must create a portfolio showcasing future goals. Vocabulary study, short papers, and projects may be required.

Prerequisite: *Credit in English 9, English 10 and English 11*

AP English Language and Composition A/B	2 semesters	1.0 credit	11
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AP English Language and Composition is a course emphasizing the rhetorical analysis of nonfiction texts and the development and revision of well-reasoned, evidence-centered analytic and argumentative writing. The course focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods. This course is for juniors capable of doing college-level work in English while they are in high school. Students who elect to take AP Language should be interested in studying and writing various kinds of analytic or persuasive essays and willing to devote the energy necessary to complete a course more rigorous and demanding than other high school English classes. Students taking AP Language will be required to take the Advance Placement examination in the spring. This course will be graded on a five-point grading scale and replaces the English 11 requirement for graduation.

It should be noted that if a student drops the course at any time during the year or does not take the AP Exam, he or she will not be graded on a five-point scale. The cost for the AP Exam at this time is \$100.00.

Prerequisite: *Credit in English 9 and English 10*

AP English Literature and Composition A/B	2 semesters	1.0 credit	12
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AP Literature students will study literature and poetry. This is a course emphasizing the development of skills in critical reading of literature and in writing about literature and related ideas. Intensive, in-depth examinations of literary selections along with extensive writing will be required. This course is for seniors capable of doing college-level work in English while they are in high school. Students who elect to take AP Literature should be willing to devote the energy necessary to complete a course more rigorous and demanding than other high school English classes. Students taking AP Literature will be required to take the Advance Placement examination in the spring. This course will be graded on a five-point grading scale and replaces the English 12 requirement for graduation.

It should be noted that if a student drops the course at any time during the year or does not take the AP Exam, he or she will not be graded on a five-point scale. The cost for the AP Exam at this time is \$100.00.

Prerequisite: *Credit in English 9, English 10 and English 11 (or AP English Language and Composition)*

SCIENCE DEPARTMENT

Biology A/B	2 semesters	1.0 credit	9
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Topics covered include biochemistry, cell anatomy and physiology, cell environment, DNA-RNA structure and function, cell division and heredity, evolution, viruses, bacteria, infectious disease, plant anatomy and physiology, animal classification, dissections of the earthworm, frog, or rat, and an introduction to human anatomy and physiology may be covered.

Chemistry A/B	2 semesters	1.0 credit	10
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This course is part of the Michigan Merit Curriculum and is required for graduation. This includes the study of the behavior of matter. Structure, properties, reactions, and energy effects are of concern. Experimental methods, orbital configuration, chemical calculations, symbols, equations, redox reactions and other topics are covered.

Prerequisite: *Credit in Algebra I and Biology*

Applied Chemistry A/B	2 semesters	1.0 credit	10
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This Chemistry course is designed for students who need extra help mastering concepts. This course is part of the Michigan Merit Curriculum and is required for graduation. This includes the study of the behavior of matter. Structure, properties, reactions, and energy effects are of concern. Experimental methods, orbital configuration, chemical calculations, symbols, equations, redox reactions and other topics are covered. This class is not available for all students; eligibility is determined by assessments as well as teacher recommendation.

Prerequisite: *Teacher/Counselor Recommendation Only*
Credit in Algebra I and Biology

Forensic Science A/B	2 semesters	1.0 credit	11 12
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This course focuses on the skills and concepts behind crime scene investigation and forensic science. In the course, students will use physics, chemistry, anatomy, cell biology, environmental science and computers to evaluate crime scene evidence. You will engage in lectures, labs, case studies, on-line activities, and professional visits as part of this course. This course should help you see how science is used to answer questions rather than just learning science concepts. Topics addressed will be: History of Forensic Science, Crime Scene Processing, Physical Evidence, Fingerprinting, Autopsies, Forensic Anthropology & Archeology, Forensic Entomology, Drugs & Toxicology, Glass Comparison, Serology & DNA, Hair & Fiber Trace Evidence, Soil Comparison, Firearm Comparison, Tool marks & Impressions, Document Examination, Digital Forensics, and Careers in Forensics.

Prerequisite: *Credit in Biology and Chemistry*

**This course can be taken to fulfill the 3rd year science graduation requirement.*

Physics A/B	2 semesters	1.0 credit	11 12
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This course will provide students with an in-depth study using mathematics to describe natural phenomena within the world about us. This is a laboratory-based class in which inquiry is applied to the study of matter and energy and their interaction. Students will study linear motion, two-dimensional motion including circular motion, forces and Newton's Laws of Motion, impulse and momentum, energy as the ability to cause change, wave motion and the wave nature of sound and light, static electricity and direct current electrical circuits.

Prerequisite: *It is recommended that students who enroll in this course have successfully completed Chemistry and be enrolled in at least Algebra II.*

**Offered every other year (even graduation years)*

**This course can be taken to fulfill the 4th year math or 3rd year science graduation requirement.*

Honors Anatomy & Physiology A/B	2 semesters	1.0 credit	11 12
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This course is designed to give a more complete understanding of the basic structures of the human body along with their functions and interactions. Focus will be placed on individual systems and the interdependent reactions within them. Students interested in a profession such as nursing, physical therapy, physical education, pharmacy, and public health will be introduced to basic anatomical and physiological concepts to build a solid foundation for future educational opportunities. This course will be graded on a 4.3 point grading scale.

**Offered every other year (even graduation years)*

**This course can be taken to fulfill the 3rd year science graduation requirement.*

AP Chemistry A/B	2 semesters	1.0 credit	11 12
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In this second-year chemistry course, students will study molarity, the condensed states of matter, nuclear chemistry, reaction rates, reaction equilibrium, acid-base reactions, electrochemistry and an in-depth study of organic chemistry and biochemistry. There will be a large emphasis on laboratory experiments. Students taking AP Chemistry will be offered the opportunity to take the Advance Placement examination in the spring. This course will be graded on a five-point grading scale.

It should be noted that if a student drops the course at any time during the year or does not take the AP Exam, he or she will not be graded on a five-point scale. The cost for the AP Exam at this time is \$100.00.

Prerequisite: *Credit in Chemistry*

AP Biology A/B	2 semesters	1.0 credit	11 12
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This is a rigorous college preparatory course emphasizing biological research and analysis. The course briefly reviews concepts from Biology I and moves on to pursue other areas in more depth. The course focuses on ecology, biotechnology, genetics, evolution, anatomy,

current research, and environmental issues. Students will be expected to participate in a number of activities that may include research papers and lab activities. Labs will consist of dissections and observations as well as a thorough lab report after the lab is completed. Students are encouraged to enroll if they are pursuing the medical field or any other area dealing with extensive biology. Possible Dissections: fetal pig, cat and frog.

It should be noted that if a student drops the course at any time during the year or does not take the AP Exam, he or she will not be graded on a five-point scale. The cost for the AP Exam at this time is \$100.00.

Prerequisite: *Credit in Biology and Chemistry with a B- or better*

Project Lead the Way (PLTW) Course Offerings

Intro to Engineering Design (PLTW) A/B	2 semesters	1.0 credit	9 10 11 12
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Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and use an engineering notebook to document their work. The course is open to students in grades nine through twelve.

Principles of Engineering (PLTW) A/B	2 semesters	1.0 credit	10 11 12
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Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

****This course can be taken to fulfill the 3rd year science graduation requirement.***

Aerospace Engineering (PLTW) A/B	2 semesters	1.0 credit	10 11 12
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This course propels students' learning in the fundamentals of atmospheric and space flight. As they explore the physics of flight, students bring the concepts to life by designing the following: an airfoil, a propulsion system, a competitive glider, and various rockets. They learn basic orbital mechanics by creating a model of the International Space Station using Satellite Tool Kit software. They also explore robot systems through projects such as remotely operated vehicles and how space flight navigation employs the Global Positioning System (GPS). This course will be enhanced through participation in the Team America Rocketry Challenge Program sponsored by the Aerospace Industries Association and National Association of Rocketry.

****This course can be taken to fulfill the 3rd year science graduation requirement.***

SOCIAL STUDIES DEPARTMENT

United States History and Geography A/B	2 semesters	1.0 credit	9
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United States History is a course required for graduation which is normally completed in the ninth grade. The course provides a reasonably detailed study of the political, social, and economic growth of the U.S. from 1870 to present.

World History and Geography A/B	2 semesters	1.0 credit	10
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World History is a course that is a graduation requirement usually taken in tenth grade. This course will focus on the global impact of events and individuals in world history and to modern world. In this course students will evaluate the United States' role in world affairs, assess the results of the economic systems of the world, and evaluate the consequences of major world processes and events. World History will cover the impact of major events in world history, geography, government, and economics.

Civics	1 semester	0.5 credit	12
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Civics is a graduation requirement, usually taken in the twelfth grade. Emphasis is on national government and introducing students to the American economic system in this class. National government addresses itself to the formation, development, and operation of the U.S. Government. Areas included are: Federal Constitutions and the importance of Federal Legislatures and President, Federal Judicial Systems and other factors involved with the operation of the Federal government.

Economics	1 semester	0.5 credit	12
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Civics is a graduation requirement, usually taken in twelfth grade. Economics involves the study of the ways in which societies use their limited resources to satisfy the seemingly unlimited wants of their consumers. This class will focus on basic microeconomics issues such as: supply and demand, product pricing, competition, and the rise of government in the life of consumers. Macroeconomics topics will include: the study of employment, labor and wages, government spending, money and banking monetary policy, and various financial investments.

AP US History A/B	2 semesters	1.0 credit	11 12
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This class is an elective with recommendation. This is an intensive and all inclusive study of political, social, and economic history of the U.S. The goal of this course is to prepare students for the AP US History Exam in the spring, which provides college credit if successfully completed. This course will be graded on a five-point grading scale.

It should be noted that if a student drops the course at any time during the year or does not take the AP Exam, he or she will not be graded on a five-point scale. The cost for the AP Exam at this time is \$100.00.

Prerequisite: *Credit in US History and Geography and Teacher Recommendation*

**Offered every other year (odd graduation years)*

FOREIGN LANGUAGE DEPARTMENT

Spanish I A/B	2 semesters	1.0	10
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In this course, basic vocabulary and conversation skills are emphasized along with some study in geography and culture of Spanish speaking countries. Memorization of words, verb forms, group skits and individual oral work are the primary means of language acquisition. The Text is i Ven Conmigo! (1). Group and individual projects may be required.

Spanish II A/B	2 semesters	1.0	10 11 12
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In this course, basic Spanish skills are emphasized as vocabulary and grammar skills are added. Students begin to use Spanish in the classroom and start developing writing skills. Verb tenses and forms are stressed. i Ven Conmigo! (I) is completed and i Ven Conmigo! (II) is started. Group and individual projects may be required. Students who are going on to college are strongly encouraged to take this course. This course counts toward the requirements of the NCAA Clearinghouse for participating in athletics at a Division I or Division II school. According to the Michigan Merit Curriculum, students may opt out of their second year of foreign language by enrolling in a visual or performing arts class.

Prerequisite: *Successful completion of Spanish I*

Spanish III A/B	2 semesters	1.0	11 12
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Spanish III examines higher level topics and linguistic structures, with a heavy emphasis on cultural, historical and societal issues. The big idea grammatically is mastering the subjunctive mood — present, past, and present and past perfect subjunctive. It also reviews the tenses from Spanish I and Spanish II, and introduces irregular preterite verbs and the conditional perfect. There is more focus on Latin American art, music, archeology, legends, history, and environmental challenges specific to Latin America. Skills are developed through higher level readings and similar activities as Spanish I and II. Students will be engaged in a study of language structures and vocabulary through reading, listening, speaking, and writing activities. Students will be assessed using a variety of methods including: oral and written tests and quizzes, classroom discussions and interactive activities, oral/aural assignments, presentations, dialogues, short compositions, and other displays.

Prerequisite: *Successful completion of Spanish I and Spanish II*

Other Foreign Languages	2 semesters	1.0	
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See Michigan Virtual High School

- German I & II MVHS online
- French I, II, & III MVHS online
- Spanish III & IV MVHS online
- Sign Language I & II MVHS online

OTHER REQUIRED COURSES

Physical Education/Health A/B	2 semesters	1.0	9
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Topics taught at the freshman level include team, individual, and dual sports. Students will be taught the basic skills and rules in the various sports followed by participation in the activity. Students also will be involved in activities developing physical fitness, and will have nine weeks of health instruction spread out over the year.

ELECTIVE COURSES

Academic Intervention A/B	2 semesters	1.0	9 10 11 12
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Academic Intervention is a course available to students that need additional academic assistance and that need increase study skills. Progress monitoring, grade checks, and computer skills will be a component of this course. This class is not available for all students; eligibility is determined by assessments as well as teacher recommendation.

Prerequisite: *Teacher/Counselor/Student Assistance Team Recommendation Only*

Art A/B	2 semesters	1.0	9 10 11 12
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This class is designed as an introductory level art class. Basic materials and techniques will be covered in several areas including: drawing, painting, printing, ceramics and sculpture. Design, composition, vocabulary, art history and methods will be emphasized. Successful completion of this class is a prerequisite for all other Art classes. This course fulfills the Visual Performing Arts (VPA) requirement for graduation.

Fee: \$20.00

Band A/B	2 semesters	1.0	9 10 11 12
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Millington High School Concert Band is open to students in the ninth through twelfth grades with preference given to students with previous instrumental experience. A performance audition may be required at the discretion of the Director. Activities include marching band in the fall and late spring, concert band during the winter months, and basketball pep band. Various field trips are taken throughout the year, including travel to away football games, honors band events, solo/ensemble festival, and marching and concert band festivals, as well as several area parades. Students must participate in consecutive semesters. Once a student has not participated for a semester, they must have prior approval from the Director to reenter. Students are asked to provide plain black socks, plain black dress pants, and a plain black button-down shirt. Students are to maintain instruments in working order. Students successfully completing two full years of band activities are eligible for a letter awarded by the music department. This course fulfills the Visual Performing Arts (VPA) requirement for graduation and 3 consecutive years of marching band will fulfill the PE graduation requirement.

It should be noted that part of the requirements for this course are to participate in the Cardinal Marching Band Camp (dates TBD) at Millington High School.

Prerequisite: *Previous instrumental music experience preferred. Uninterrupted semesters of participation in band or audition on entrance.*

Fee: *Fees to be determined by Director and announced before the end of the school year.*

Cardinal Pride A/B	2 semesters	1.0	11 12
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Cardinal Pride is open to 11th or 12th grade students who have completed at least one Art class and are interested in promoting school spirit. The Cardinal Pride class promotes a positive school climate by creating signs banners and other miscellaneous projects around the district.

Prerequisite: *Credit in Art I and Teacher Approval*

Fee: \$10.00

Creative Writing A/B	2 semesters	1.0	10 11 12
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Creative writing is an elective course open to students from 10th-12th grade. During the year, students will study the craft of creative writing and explore poetry, fiction, and creative nonfiction. Students will create original work, participate in discussion and analysis of writing, and collaborate with their peers in a workshop setting.

Desktop Publishing I A/B	2 semesters	1.0	11 12
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Students will learn how to produce publishable documents using Microsoft Publisher. A variety of techniques will be discussed and used. Various individual projects will be completed. Students will use digital cameras, scanners, and clip art. Additional supplies needed for this class: portable storage device (media card, flash drive, etc.)

Prerequisite: *Credit in Multimedia*

Desktop Publishing II A/B	2 semesters	1.0	12
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Students will work on publications using Microsoft Publisher and Adobe In-Design. An emphasis will be placed on individual projects such as the District Newspaper, The Cardinal Call, awards, and special events. Additional supplies needed for this class: portable storage device. (media card, flash drive, etc.)

Prerequisite: *Credit in Multimedia and Desktop Publishing I*

General Shop A/B	2 semesters	1.0	9 10 11 12
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This is the introductory course in Industrial Arts. The General Shop class will develop basic skills in the following areas; Drawing/Sketching/Planning, CAD (Computer Aided Drafting), Basic Woodshop, Basic Metalshop. Projects are assigned for this class. There will be a \$20.00 fee for consumable materials in this class. Cost of construction materials may be an additional fee. Passing the safety tests and wearing Safety glasses are required in all shop classes. Students will be offered and opportunity to enter projects in an Industrial Arts Competition.

Fee: \$20.00

Advanced Shop A/B	2 semesters	1.0	10 11 12
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This course offers an experience in woodworking and metal processing operations. Students will design and build their own projects. Areas covered in this course are project planning, CAD (Computer Aided Drafting), material selection, use of hand tools, woodworking machinery and Metal processing equipment. It includes work with lathes, welders, grinders, mills, drill press, band saws, Plasma CAM, and foundry equipment. This course encourages small furniture, bookcases, tables, chests, gun racks, gun cabinets, sheds, etc. This class also includes the basics of small engine repair. There will be a \$20.00 fee for consumable materials in this class. Cost of construction materials will be charged to the student as supplies are used. Passing the safety tests and wearing safety glasses are required in all shop classes. Students will be offered an opportunity to enter projects in an Industrial Arts Competition.

Prerequisite: *Credit in General Shop*

Fee: \$20.00

Honors Practicum A/B	2 semesters	1.0	11 12
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Honors Practicum is a course available to students taking Advanced Placement and/or Dual Enrollment courses and preference will be given to students taking multiple courses.

Co-requisite: *Advanced Placement and/or Dual Enrollment*

Multimedia II A/B	2 semesters	1.0	11 12
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In this course students will be working independently. The course will involve using advanced Adobe programs such as Fireworks, Flash, and Dreamweaver. The students are responsible for creating the student announcements and student bulletin.

Prerequisite: *Credit in Multimedia*

Mythology A/B	2 semesters	1.0	10 11 12
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This class will cover mythology, fables and gods of different religions. It will focus mainly on Greek, Roman, Norse, and Egyptian. Students will study Greek and Roman root words as well as read *The Odyssey*.

Sport-Specific Training (SST Fitness) A/B	2 semesters	1.0	9 10 11 12
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This course is designed for students and athletes who are looking to improve overall body strength, flexibility and agility. Principles of dynamic warm up, strength training, speed training and plyometric activities will be utilized in this class. Training programs will be developed to improve the students' self-esteem, physical appearance, athletic performance and ability. Nutrition, posture and physical awareness will also be emphasized for students to be lifelong learners in fitness. This SST curriculum features the Michigan Physical Education Framework Standards. SST II, III and IV are options for an elective after the student's current SST class has successfully been completed.

Student Leadership	2 semesters	1.0	9 10 11 12
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This course is offered for students who are members of the Millington High School Student Council. Students in this course will work on publications and projects that will be used within the school district. Students will use a variety of software in this class and learn organizational skills. Course outcomes for Student Leadership include: create and edit publications, design newsletters, prepare tri-fold brochures, design letterhead, business cards, and envelopes, prepare mail-merge documents, design calendars, work with scanners & digital cameras, edit pictures, prepare PowerPoint presentations, organize information, and create informational displays.

Prerequisite: *Membership in Millington High School Student Council*

Team Sports and Games A/B	2 semesters	1.0	10 11 12
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This class is intended for those students who are interested in fostering a better use of their leisure time. Team and individual lifetime activities are stressed. Officiating skills will be taught on a 3-year rotation. Throughout the year, a component of individual sports and games will be implemented to promote lifelong leisure and wellness.

Web Design I A/B	2 semesters	1.0	11 12
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In this course students will be developing web pages using a variety of software. Students may need access to a digital camera, video camera, scanner, clip art, and some type of media storage device. Students will be designing and building a multiple sites.

Prerequisite: *Credit in Multimedia I, Credit in Multimedia II is recommended*

Web Design II A/B	2 semesters	1.0	12
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Second year Web Design students will work on projects designed to meet the needs of the Millington Community Schools Web site.

Prerequisite: *Credit in Multimedia I, Multimedia II and Web Design I*

Yearbook A/B	2 semesters	1.0	11 12
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Production of the yearbook, The Cardinal, is the primary purpose of this class. Lay-out design, photography, advertising, and copy writing are studied along with the technical mechanics of production. Students are expected to work, in addition to classroom time, on advertising sales, deadlines, page commitments, photo assignments, and yearbook sales and distribution. Additional supplies needed for this class: Digital Camera is recommended. Class cameras are limited.

Prerequisite: *Teacher Approval*

ADVANCED PLACEMENT COURSES

The Millington High School Advanced Placement (AP) Program, sponsored by the College Board, enables colleges and secondary schools to work together to provide students with the opportunity to complete college-level studies during secondary school. Participating colleges grant credit, advanced placement, or both to students who have performed at a qualifying level on AP Examinations. Advance Placement courses will only be offered to students in grades 11 and 12. Students will be required to attend an Informational Meeting held by the AP teacher, complete and sign a Student/Parent Contract and pay the designed AP Exam Fee and any additional fees incurred throughout the course. **It should be noted that if a student drops the course at any time during the year or does not take the AP Exam, he or she will not be graded on a five-point scale. The cost for the AP Exam at this time is \$100.00.**

Current AP Courses: AP US History
 AP English Language and Composition
 AP English Literature and Composition
 AP Chemistry
 AP Calculus
 AP Biology

AP Course descriptions are found under the appropriate department heading. We also offer AP classes through MVHS. It is strongly recommended that students take an AP Exam.

DUAL ENROLLMENT

The Millington High School Staff is working hard to expand the opportunities students have to earn college credit while they are still in high school. Students may attend a local college or university and have the opportunity to earn both high school and college credit. Millington Community Schools will pay a portion of the tuition for each class that is determined by a formula provided by the State of Michigan.

Credit earned through college courses will not be included in computation of grade point average. The final grade is reported as a letter grade on the transcript.

Duration: One Semester

Prerequisite: Placement Test

Traditional Dual Enrollment

Traditional dual enrollment is an option in which Millington High School students can sign up at a local college or university in order to take one or more courses. This option is available for any high-achieving student who has exhausted the MHS curriculum in a given subject.

Interested students must meet with the counselor directly to learn more about this option and its requirements. All dual enrollment and college application paperwork, with administrator approval, must be completed in a timely manner. Placement tests must be taken at the college to determine if a student is eligible for certain courses. Millington Community Schools will pay a portion of the tuition for each course, which is pre-determined by the state every August. Students will be responsible for the remaining tuition and textbook fees.

CARDINAL COLLEGE

Cardinal College is a partnership with Millington Community Schools and Mott Community College to offer an advanced dual enrollment option for juniors and seniors. Students move through the two-year program in a cohort. All courses are offered on-site at Millington Community Schools and follow the Mott Community College calendar. This option makes it easier for students who are involved in extracurricular activities to take college classes. Students take two college classes each semester and the district pays a portion of the tuition for each course. Students will be responsible for the remaining tuition, textbooks, and their own transportation. Students will complete a variety of courses that are transferable and follow the Michigan Transfer Agreement. These are courses not already offered at Millington High School. Students are still expected to take all of the required high school courses in the Michigan Merit Curriculum and are also encouraged to enroll in Advanced Placement courses. Due to the fact that there will be limits on the number of students who can participate in this program an application is required. Placement may depend on student GPA, performance on PSAT/SAT, teacher recommendations, and college placement exams.

MICHIGAN VIRTUAL HIGH SCHOOL

Mission

The Michigan Virtual High School, working in partnership with Michigan schools, is committed to providing cost-effective technology-based solutions that strengthen teaching and learning.

How Online Learning Works

These are semester student-paced courses that offer learners a fast, flexible way to pick up an elective or required class that may not fit into his or her schedule. Instructors in these courses set pacing guidelines for completing assignments, though they will not assign due dates. Instructors encourage students, monitor their progress and grade coursework and are available to students to answer questions and provide guidance. In order for a student to be placed in a MVHS course, they must be taking a class that Millington High School does not offer and be in good academic standing. MVHS has pre-determined add and drop periods which students must comply with. If students are not making satisfactory progress in their MVHS course a couple weeks into the semester, they may be dropped from the course. **In addition to selecting a specific course on your course selection sheet, there is also a separate application for online learning.**

Online Learners

For most students, online learning is a new experience and requires certain abilities. Students considering online learning should possess the following skills before enrolling:

- Student is a self-directed learner and is able to work independently.
- Student demonstrates good time management skills.
- Student is motivated and has a strong interest in the content area of the online course offering.
- Student has strong reading comprehension and writing skills.
- Student is able to initiate conversations with online teacher and seek assistance when needed.

Enrollment - Online Application and Contract

Students will indicate their request to enroll in MVHS on their Course Selection Sheet during the scheduling period. In addition, students and parents must review and sign an online contract.

Online Courses Available for Michigan Virtual High School

General Electives

Accounting A/B
Business Ethics
Entrepreneurship
Digital Photography
Film Study – American
Film Study – Golden Age
Medical Terminology
Music Appreciation

Language Arts

Composition A/B

Mathematics

Mathematics of Personal Finance
Mathematics in the Work Place
Statistics A/B
Trigonometry

Science

Anatomy & Physiology A/B
Astronomy
Forensic Science
Oceanography A/B
Veterinary Science

Social Studies

Archaeology
Criminology
Native American History
Personal Finance for Young Adults
Psychology
Sociology A/B

World Language

American Sign Language A/B
French I & II A/B
German I & II A/B
Spanish III & IV A/B

AP Courses

AP Art History A/B
AP Biology A/B
AP Chemistry A/B
AP Computer Science A/B
AP Environmental Science A/B
AP Macroeconomics
AP Microeconomics
AP Physics 1 A/B
AP Physics 2 A/B
AP Physics C A/B
AP Psychology
AP Statistics A/B
AP US Government
AP US History A/B
AP World History A/B

Please note: Courses that are two semesters are noted as A/B, otherwise the course is one semester.

PROJECT LEAD THE WAY

Project Lead the Way (PLTW) is the nation's leading provider of K-12 STEM programs. Our world-class curriculum and high-quality teacher professional development model, combined with an engaged network of educators and corporate and community partners, help students develop the skills necessary to succeed in our global economy.

Project Lead the Way delivers programs to more than 8,000 elementary, middle, and high schools in all fifty states and the District of Columbia. PLTW schools can be found in rural, urban, and suburban districts; across all income levels; as well as in public, private, and charter schools.

PLTW's success in preparing students with the knowledge and skills they need to succeed has been recognized by colleges and universities, Fortune 500 businesses, and numerous national organizations including Change the Equation, the Social Impact Exchange, and more.

Millington High School is in the third year of offering Project Lead the Way classes. The first class we are going to offer is Introduction to Engineering Design and we are the only school in the county to offer this program to our students. Our junior high school also offers STEM courses through Project Lead the Way.

Students will take PLTW courses in the following sequence:

Introduction to Engineering Design
Principles of Engineering
Aerospace Engineering

(Refer to the Science Department for Course Descriptions p. 14).

CREDIT RECOVERY PROGRAM

Credit make-up courses are offered online through the Millington High School Credit Recovery Program. Students are not allowed to take classes for credit make-up until they have taken and failed the course offered at Millington High School.

CREDIT RECOVERY OPTIONS

Summer School	Starts the second week of June and runs through July. Students can earn up to one credit during the seven-week session.
Credit Recovery Lab	Junior and senior students who are at risk of not graduating on time may be scheduled one class period during the school day.
At-Home	Students who are currently passing all of their classes may take extra classes at home during their senior year.

Cost

Classes cost \$50 for each $\frac{1}{2}$ credit for students who take summer school or complete classes outside of school. There is no fee for students who are in the Credit Recovery Lab during the school day.

Mentors

Students in the Credit Recovery Lab have a teacher-mentor who monitors progress and awards credit. Students are required to meet with their mentor at least one time each week. Students who are struggling with their classes are encouraged to meet with their mentor for extra help.

Pacing

Students do not receive credit for being in the credit recovery lab, they receive credit for each course they successfully complete. Students should complete $\frac{1}{2}$ credit for each marking period they are in the credit recovery lab. If students are not making adequate progress in their classes, they will be taken out of the credit recovery lab and they will lose any progress they made in the credit recovery class. They will have to restart the class and complete it during Summer School or on their own time.

Course Components/Grading

Students will complete their credit recovery courses using the E2020 program or Compass Learning program. Students should work at home but are required to complete all quizzes, tests, and exams at school in the Credit Recovery Lab. Students must complete all lessons in the course and earn at least a 70% in the course overall to earn credit. Students must also pass the final exam with at least a 70% to earn credit in the course. Credit will be rewarded on a Credit (CR) and No Credit (NC) basis. They will not be counted towards the student's Grade Point Average (GPA).

Repeat Courses

If a student chooses to re-take a course, both grades will remain on the Official Transcript. Both grades will compute into the cumulative Grade Point Average however, only one credit will be counted toward the subject requirement for graduation. If the repeated grade is lower than the initial grade earned, an “S” (Satisfactory) for the class will be entered on the Official Transcript and will not compute into the G.P.A.

Testing Out Policy

In accordance with PA 335, Millington High School will provide eligible students with the opportunity to test out of high school courses. Credit earned by testing out of a course is counted toward Millington High School graduation requirements; the credit may be counted toward meeting the requirements in a subject area. Credit earned by testing out of a course will be graded Credit / No Credit and will be recorded as “CR” or “NC” on the student’s transcript. Grades are not used in the computation of grade point average. A score of 80% on the exit exam is needed to receive credit. The testing-out process requires interested students to complete the following steps:

- 1) Meet eligibility requirements.

Students may be eligible to test out of many courses offered at Millington High School. Testing out of a course is permitted at any time. Students may test out of a course which is lower in sequence than the course in which they are currently enrolled. Special education students may not test out of a course unless it is specified in the Individual Education Plan. By law, students may not test out of Civics.

- 2) Submit application to Guidance Department.
- 3) Interview with Principal and Course Instructor.

Upon acceptance of their applications, students will be notified of an interview with the Principal and faculty member. At the interview the faculty member will explain the testing-out process and provide the course learning objectives to the applicants.

- 4) Pass exit exam with a score of 80% or better.

Non-Offering of a Course

Millington High School reserves the right to decline to offer a course in its curriculum offerings if there is insufficient student interest or non-availability of a qualified instructor or proper facilities. This shall be an administrative decision and shall be made on a year-to-year basis. Millington High School will do its best to provide required courses as needed but cannot guarantee availability of courses when taken out of the recommended sequence.

Students who fail a core class during the regular school year will not be placed back into that class the next school year unless the administration agrees that it is in the best interest of the student to take the class in a regular classroom setting. If students fail a class, it will be up to them to make it up through the Millington High School Credit Recovery Program, whether it is through summer school or our after-school program.

Schedule Changes

All schedule adjustments are made through the counseling office. Some changes may require administrative approval.

Student-initiated Schedule Changes:

A student may not drop classes without the permission of their parent/guardian and approval of the guidance department. Schedule change forms are located in the Guidance Office. All schedule changes must be done prior to the start of the semester.

Exception: Changes after the start of the semester must be requested within two days and will only be made for the following reasons:

1. To meet graduation requirements.
2. Inappropriate academic placement.
3. Improper grade level placement.
4. Principal's discretion or with the recommendation of the Student Assistance Team.

Any change affecting second semester must be initiated prior to the last week of semester one.

Teacher-initiated Schedule Changes:

All schedule adjustments after the first week of school must be teacher-initiated. Academic misplacement schedule adjustments must be teacher-initiated.

Students who feel a class is too difficult for them should first discuss their concerns with their teacher and parent/guardian(s). Every effort should be made by the student to seek additional assistance. If the difficulties persist, the teacher will recommend a schedule adjustment due to inappropriate academic placement.

Programs Offered Through the Tuscola Technology Center

Tuscola Technology Center is an extension of the local school district and offers programs to expand educational services. Students attend Millington High School for half of the school day and the Technical Campus the other half of the day for a full academic schedule. Tuscola Technology Center Programs are available to 11th and 12th grade students. In addition to earning elective high school credit, students also have the potential to earn certifications and articulated college credit. **Students enrolled in the Tuscola Technology Center who successfully complete and pass their courses satisfy the Michigan Merit Curriculum's 3rd year science, second year foreign language and the senior year math requirements for graduation.**

Arts & Communications

Art & Digital Design

Prepare for an exciting career in Digital Design, where you will develop creative approaches to promote products, services, and ideas for commercial use. The graphics industry is growing fast and needs thousands of new workers; from design to the advertised product, the advertising industry offers an exciting and colorful career. This program is designed for students interested in careers in the digital design industry such as computer graphics, printing, digital photography, advertising design, and illustration. Emphasis is geared toward hands-on learning using state-of-the-art equipment to give each student the best possible training and job skills. This course also fulfills the Michigan Merit Curriculum graduation requirement for Visual, Performing, and Applied Arts, the on-line experience, and also qualifies for the fourth level of math equivalent. College credits may be earned from Baker College, Davenport University & Delta College. Student clubs: Michigan Industrial Technology Education Society and SkillsUSA/Print Ed.

Graphic Communications

The graphics industry is growing fast and needs thousands of new workers; from design to the printed product. This program is designed for students interested in the graphics communication industry in fields such as graphic design, typography, logo development, illustration, offset printing, screen printing, digital imaging and dye-sublimation. Other projects include designing calendars, ad campaign signs, senior graduation announcements, t-shirts, signs and more. This program also fulfills the Michigan Merit Curriculum graduation requirement for Visual, Performing, and Applied Arts, the on-line experience, and also qualifies for the fourth level of math equivalent. Print Ed certification is offered and college credits may be earned from Baker College, Davenport University & Ferris State University. Student Club: Michigan Industrial Technology Education Society and Skills USA.

Business, Management, Marketing & Technology

Computer Technology Management

Students have the opportunity to become certified specialists in several computer and networking fields. Students focus on one of four areas: Computer Maintenance & Troubleshooting, Web Design, Programming and Network Administration. Skills taught are

installing cable, configuring routers and switches, network administration, and network and computer diagnostic. Students who will learn on software such as Adobe CSE, Microsoft Office, Test out Certification Preparation, Multimedia Fusion, and Microsoft Visual Studio. Industry certifications offered: A+, Network+, Linux+, Security+ and CIW (Certified Internet Webmaster). College credits may be earned from Baker College, Davenport University, Delta College & University of North Western Ohio. This course also fulfills the Michigan Merit Curriculum graduation requirement for Visual, Performing, and Applied Arts, the on-line experience and also qualifies for the fourth level of math equivalent. Student club: Business Professionals of America.

Culinary Arts

Teaches the basics of short order cooking and quantity cooking with a focus on teamwork, leadership skills, customer service and exceeding guest expectations. Students train in a modern commercial restaurant and bakery, moving through the different areas of instruction. Hospitality service continues to be one of the largest industries offering employment at many income levels depending on ability, experience and education. The Cleaver Café Restaurant, which is located in the Technology Center, is open to the public and offers table and conference/ banquet services. Students receive actual work experience with the public through operation of the restaurant. Students have the opportunity to work as part of the team in the *Cleaver Café* Restaurant. This course also fulfills the Michigan Merit Curriculum graduation requirement for Visual, Performing, and Applied Arts, the on-line experience and also qualifies for the fourth level of math equivalent. Serve Safe and Pro-Start Certifications are offered and college credit may be earned from Baker College and Mott College.

Marketing & Business Management

The main objective of the Marketing & Business Management program is to develop competent workers in and for the major occupational areas within marketing. Another goal is to build an understanding of the wide range of social and economic responsibilities, including the right to engage in marketing in a free-enterprise system. This program is concerned with marketing, sales, distribution, merchandising, management, and entrepreneurship. This course also fulfills the Michigan Merit Curriculum graduation requirement for Visual, Performing, and Applied Arts, the on-line experience, the fourth level of math equivalent. Assessment of Skills and Knowledge for Business certification is offered and college credits may be earned from Baker College, Davenport University, Delta College & University of Northwestern Ohio. Student club: DECA.

Health Sciences

Nursing

Join the fastest growing career area with the health care industry. Gain first hand, on-the-job experience working with professionals in local health care agencies, offices or facilities while enrolled in the program. Health Technology/Nursing Careers can open up a wide variety of employment possibilities and lead to a lifetime of satisfaction in helping others. This program is an advanced academic program for the self-disciplined and motivated student who is interested in pursuing a career in the health field. This is an exciting program that prepares students for articulation to Delta College, Baker College or Davenport University for a smooth

transition from high school to college. Students will also have the opportunity to become a Certified Nursing Assistant after passing their CENA exam. First Aid/CPR/AED & Pharmacy Technician certifications are offered. This course fulfills the Michigan Merit Curriculum graduation requirement for Visual, Performing, and Applied Arts, the on-line experience, and the fourth level of math equivalent. College credits may be earned from Baker College, Davenport University & Delta College. Student Club: Health Occupation Students of America.

Human Services

Professions in Education/Early Childhood

Students learn how to create a safe, comfortable environment in which children can grow and learn. This program is unique in that students are able to learn the skills for the care of young children and apply them in the Technology Center's licensed preschool. Children aged 3-5 attend the preschool. Activities planned by the students provide physical, cognitive, social, and emotional development for the children. In addition, students who demonstrate good classroom progress have excellent attendance and work habits may have opportunities to work in additional facilities. Some of these include day care centers, kindergarten classrooms, preschools, Head Start classrooms, and early childhood classrooms or programs for developmentally disabled children. First Aid/CPR/AED certification is offered and college credits may be earned from Baker College and Delta College. This CDA (Child Development Associate) Program is a national credential that qualifies caregivers who work with children from birth to age five. This course fulfills the Michigan Merit Curriculum graduation requirement for Visual, Performing, and Applied Arts, the on-line experience, the fourth level of math equivalent.

Cosmetology

Learn the science of beautifying and improving the complexion, skin, hair, and nails in the Cosmetology Program. The classes are held at Howard's Beauty Academy in Caro. Here the students undergo 350 hours of class work and laboratory studying, and then have 1,150 hours of customer work guided by the experience of professional instructors. The students use technical, business, and people skills routinely throughout the day. This course is designed to prepare students for the state exam and licensing process. (NOTE: This course requires 100 hours or more of participation during the summer between the junior and senior year.) Certification is offered through the State of Michigan. This course fulfills the Michigan Merit Curriculum graduation requirement for Visual, Performing and Applied Arts, the on-line experience, and fourth level math equivalent. Student Club: Skills USA.

Law Enforcement/Protective Services

Students will have an opportunity to experience the challenge of working in the public sector and the importance of community involvement. Law Enforcement/Protective Services is a program that offers the introduction of all aspects of the criminal justice profession. Students will have the opportunity to participate in work experience with various criminal justice organizations. They will work with law enforcement department members to enhance their training and education. The program prepares students to work in a professional and

courteous manner with members of the community. Samplings of law enforcement/protective services organizations participating are local police departments, court systems, correctional facilities, volunteer agencies, and many more. College credits may be earned from Davenport University and Delta College. This course fulfills the Michigan Merit Curriculum graduation requirement for Visual, Performing, and Applied Arts, the on-line experience, fourth level math equivalent. Student Club: Skills USA

Natural Resources & Agri-Science

Agriscience & Natural Resources

All students within the Agri-science and Natural resources program will gain basic understanding of the exciting and dynamic industry of Agriculture. Topics covered: agribusiness, leadership, basic animal science, basic plant science and intro to natural resources; these areas all intertwine in the Agricultural Industry. Students will get hands on training in new technology in the Large Animal Learning Facility, Hydroponic Greenhouse, Horticulture Greenhouse, and aquaculture systems. Students may choose from:

Plant Science – growing various types of plants from seed to harvest or from plug trays

Horticulture – Landscaping, Turfgrass, Floral Design, Hydroponics, Plant Breeding & Urban Gardening

Environment Science – Wildlife Management, Ecology, Forestry, Soils & Aquaculture

Animal Science – Zoology, Large/Small Animal, Veterinary Medicine, Aquaculture & Equine Science

Student Club: FFA

Manufacturing & Industrial Technology

Automotive Body Repair

The Auto Body class helps students to develop the hands-on skills necessary to repair damaged vehicles. The Technology Center has a large auto body repair shop that has all of the tools and equipment found in most independent body shops and dealerships. Students will learn painting and refinishing. Students learn to properly use tools and equipment needed for each job and to develop safe working practices and habits. Additional areas of instruction include: shop safety, metal finishing, welding, panel replacement and estimating. This program is nationally certified by ASE & NATEF and offers student certification through the State of Michigan, ASE and I-CAR. This course fulfills the Michigan Merit Curriculum graduation requirement for Visual, Performing, and Applied Arts, the on-line experience, and also qualifies for the fourth level of math equivalent. College credits may be earned from Delta College & Mott College. Student Club: Skills USA

Automotive Technology

The Automotive Technology Program at TTC is intended to prepare students to be able to take and pass the National Institute Auto Service Excellence Test and to enter the field of work as an advanced Apprentice Technician. Due to the technical nature of the field of Automotive Technology and the amount of knowledge required to enter the field, this is considered a two-year program. Six technical areas of certification can be covered. Upon

completion of the first year, a student should be ready to take at least two or more of the certification tests. This program is nationally certified by ASE & NATEF and offers student certification through the State of Michigan. This course fulfills the Michigan Merit Curriculum graduation requirement for Visual, Performing, and Applied Arts, the on-line experience, and also qualifies for the fourth level of math equivalent. College credits may be earned from Baker College, Delta College, Mott College, University of Northwestern Ohio, St. Clair Community College and UTI. Student Club: Skills USA and Michigan Industrial and Technology Education Society.

Construction Technology

During the first year, students learn the basic skills of residential home construction. Students can apply their skills while building a residential home on campus. Exciting projects are based on units in carpentry, masonry and electrical wiring. Field trips and tours help students gain current information about building trends and methods. Students have the opportunity to join a student youth club that provides opportunities to further develop career skills, leadership, teamwork, and personal skills needed by employers. This program offers Sky Trak / Rough Terrain Forklifts certification and college credits may be earned through Delta College. This course fulfills the Michigan Merit Curriculum graduation requirement for Visual, Performing, and Applied Arts, the on-line experience, and also qualifies for the fourth level of math equivalent. Student club: Michigan Industrial Technology Education Society & Skills USA.

Diesel Technology

Discover the world of mechanical repair. With a background in Power Technology, you may choose a career in engine repair, power transmission, hydraulics, charging/starting systems, welding fabrication, parts or sales. You will work on preventive maintenance, brake systems, electrical systems, engines, transmissions, and differentials. Students will use a variety of tools and test equipment in their daily routine. This highly technical and specialized program will train you for many new job opportunities. This program is nationally certified by ASE & NATEF and offers student certification through the State of Michigan. This course fulfills the Michigan Merit Curriculum graduation requirement for Visual, Performing, and Applied Arts, the on-line experience, and also qualifies for the fourth level of math equivalent. College credits may be earned through Delta College, Ferris State University and the University of Northwestern Ohio. Student Club: Skills USA

Electronics

A successful Electronic Technician is a highly skilled builder and troubleshooter of electronic equipment. The Electronics program provides the students with the knowledge and hands-on skills required in the workplace. Students will cover design, repair, development, manufacturing, and testing of electrical and electronic components. Products and systems for commercial, industrial, medical, military, and scientific purposes are also explored. Students in this program are trained in the following areas: basic electricity, computers, solid-state and digital electronics, electronic communication, robotics and automation, and consumer electronics repair. This course fulfills the Michigan Merit Curriculum graduation requirement for Visual, Performing, and Applied Arts, the on-line experience, fourth level of

math equivalent. College credits may be earned through Delta College. Student club: Michigan Industrial Technology Education Society and Skills USA.

Manufacturing Academy

The Manufacturing Academy is a two-year program with dual enrollment at Delta College. In the first year, students will learn how metal behaves through the use of common manual machining operations on engine lathes, mills and grinders. The second year of the program introduces computer numerically controlled (CNC) machine operation and programming. Both years include a job shadow co-op component that can be leveraged into part-time employment. At the end of the second-year students can earn a total of 22 hours of college credit and nearly complete Delta's Certificate of Achievement in CNC. Strong math skills are encouraged. This cohort only meets during the PM session.

Welding & Fabrication

Welding is a leader of today's high-tech approach to manufacturing. Student will prepare for a variety of jobs in the metal fabrication industry. Along with training in various types of welding and cutting processes, the student receives instruction in the use of industrial equipment. Computer-controlled processes, allow plastic welding, wire feeders, plasma, cutting, and welding torches to be controlled by the operator at a keyboard, or a computer in the building or the next state. This course fulfills the Michigan Merit Curriculum graduation requirement for Visual, Performing, and Applied Arts, the on-line experience, and also qualifies for the fourth level of math equivalent. American Welding Society and I-CAR certification may be earned as well as college credit through Delta College. Student club: Michigan Industrial Technology Education Society & Skills USA.

Additional Programs

Placement Services/BIST

Tuscola Technology Center is able to provide job placement assistance to all students, through either your program instructor or Placement Office. TTC job placement assistance is designed to help you find full-time, part-time or temporary jobs, as well as, work-based experience for credit with the following programs: Apprenticeships, Co-Op, Work Experience or Job Shadowing.

BIST (Business & Industry Site Training) is offered to students who cannot obtain this type of curriculum/training at TTC or at their home school. The training is offered at the site of an employer and the experience is for a full year. The students are not paid; however, they receive school credit. The program must operate under a state approved CIP code. BIST employers: Brass Shutter, The Portrait Gallery, WKQZ, WIDL, Nancarrow Taxidermy Studio, Miss Erin's Dance Studio, Maple Grove Vet Clinic, Larsen Veterinary Clinic, Millington Veterinary Clinic, Hills & Dales Center for Rehab (MARC), Dr. James Thomas, D.D.S, Dr. Joseph Vella, D.D.S, Dr. Kenneth Merckel, D.D.S., Cass City Middle School and Highland Pines School. This course also fulfills the Michigan Merit Curriculum graduation requirement for Visual, Performing, and Applied Arts and may also qualify for the fourth level of math equivalent.

Risk Management and Insurance

The Insurance Leadership Academy is a two-year program partnering with Frankenmuth Insurance, Northwood University, and Michigan Insurance Alliance of Michigan to provide students insight into the field of insurance at the corporate and agency level. Students will be able to earn up to 12 hours of college credit through dual enrollment with Northwood University, as well as have the opportunity to earn the AINS insurance industry designation. In the first year, students meet four days a week at Frankenmuth Insurance and take 9 credits of college courses. The second year of the program students will Co-Op/Job Shadow and meet one day a week at the Tuscola Technology Center and complete a 3-credit college course. Students will need to be able to provide their own transportation to and from Frankenmuth Insurance. This cohort only meets during the AM session.

Certifications

AFS/AMS	MOS Certification
Agri Science	Michigan certified Florist & Michigan Nurseryman Certifications
Auto Body	State of Michigan I-CAR & ASE
Auto Technology	State of Michigan, ASE National Certification TIA (Tire Industry Association) ALLDATA National Certification & Career Safe Certification
Early Childhood	CDA (Child Development Associate) First Aid/CPR/AED
Construction	RTFL Rough Terrain Fork Lift
Cosmetology	State Board Exam
CTM	A+ Network+ Linux+ Security+ CIW (Certified Internet Webmaster)
Graphics	PrintEd Certification
Hospitality/Foods	ServSafe & ProStart Certification
Insurance	AINS Insurance Industry Designation 12 credits through Northwood University
Law Enforcement	First Aid/CPR/AED
Marketing	ASK (Assessment of Skills and Knowledge for Business)
Manufacturing	22 credits through Delta College Students will nearly complete Delta's CNC Certificate Program
Nursing/Health	First Aid/CPR/AED
Power Technology	State of MI Heavy Truck Repair, ASE & ALLDATA
Welding	AWS SENSE Certification AWS State of Michigan Certification I-CAR

Colleges the Tech Center Articulates With:

Baker College	Davenport University	Delta College
Ferris State University	ITT Technical Institute	Lansing Community College
Lincoln Tech	Mott College	St. Clair Community College
University Technical Institute	University of Northwestern Ohio	