

**MILLINGTON HIGH SCHOOL  
WHERE ACADEMIC AND EXTRA-CURRICULAR  
ACHIEVEMENT IS  
THE TOP PRIORITY**

# **PROGRAM OF STUDIES**

## **FOR THE CLASSES**

# **2014**

**THE INFORMATION IN THIS BOOKLET HAS BEEN PREPARED  
FOR USE BY THE  
STUDENTS AND PARENTS/GUARDIANS  
AT MILLINGTON HIGH SCHOOL**

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MILLINGTON, MI 48746**

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“The most important task of a community is the education of its youth.”

To graduate from Millington High School, students must successfully complete the following requirements:

## MICHIGAN MERIT GRADUATION & MILLINGTON HIGH SCHOOL REQUIREMENTS

<b>MATHEMATIC – 4 Credits*</b>
Algebra I Geometry Algebra II One math course in final year of high school
<b>ENGLISH LANGUAGE ARTS – 4 Credits*</b>
English Language Arts 9 English Language Arts 10 English Language Arts 11 English Language Arts 12
<b>SCIENCE – 4 Credits*</b>
Biology Chemistry Physics One additional science credit
<b>SOCIAL STUDIES – 3 Credits*</b>
World History and Geography = Grade 10 United State History and Geography = Grade 11 A.P. United State History and Geography = Grade 11 or 12 Economics ½ = Grade 12 Civics ½ = Grade 12
<b>PHYSICAL EDUCATION – 2 Credit*</b>
Physical Education/Health = Grade 9 SST Fitness = Grade 9 – 12 or Adv. Physical Education = Grade 10 – 12
<b>VISUAL, PERFORMING AND APPLIED ARTS – 1 Credits* Band, Art, Choir, Shop etc...</b>
<b>LANGUAGE OTHER THAN ENGLISH – 2 Credits*</b>
In grades 9-12.
<b>ONLINE LEARNING EXPERIENCE</b>
Course, Learning or Integrated Learning Experience
<b>CAP &amp; POWER POINT – 1 Credit* = Grade 9</b>

**26 Credits / are required for graduation**

**21 Credits / are core academic classes**

**5 Credits / are elective classes**

**Students earn 1 credit for each class each year.**

## **FORWARD**

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. This booklet is yours to keep. **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.** 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.

## **EDUCATION DEVELOPMENT PLAN (EDP)**

An Educational Development Plan (EDP) documents an outgoing 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. EDP's are available for parents and students online at [www.mcsdistrict.com](http://www.mcsdistrict.com) or [www.careercruising.com](http://www.careercruising.com).

### **Changes will be considered for the following reasons:**

- To meet graduation requirements.
- If you have been placed in a class already completed for credit.
- If you have been placed above or below your academic capabilities.
- By the principal's discretion.

## **CAREER PATHWAYS**

Career Pathways is a systematic plan for a focused high school education leading to a chosen career area that generally fall into six career categories. These categories include: Natural Resources and Agriscience, Arts and Communications, Business, Management, Marketing and Technology, Engineering/Manufacturing and Industrial Technology, Human Services, and Health Science.

## **DUAL ENROLLMENT**

POSTSECONDARY ENROLLMENT OPTIONS ACT. This is to inform you that Dual Enrollment is available to eligible 11<sup>th</sup> and 12<sup>th</sup> students and what may need to be done prior to 11<sup>th</sup> grade to become eligible. Dual Enrollment (also called Postsecondary Options) permits the student to take classes in both the high school and college or university simultaneously. The purpose of this program is to provide a wide variety of options to high school pupils to insure that all students continue to be challenged. Eligible students may take certain classes at colleges and universities essentially paid for with a percentage of the student's state funding. Students must be enrolled in at least one high school class. In general, 11<sup>th</sup> and 12<sup>th</sup> graders who have completed the MME and received qualifying scores as set forth by the MDE may take college courses as approved by the Millington Community School District. These courses may be taken for high school credit, college credit or both, but the student must notify both the high school and college of his/her intent prior to registration. A 10<sup>th</sup> grade student planning to participate in Dual Enrollment in the 11<sup>th</sup> grade must take the PLAN test as a 10<sup>th</sup> grader and obtain minimum passing scores in order to meet eligibility requirements. Questions about Dual Enrollment should be directed to the Guidance Center, at 871-5231.

## **EARLY GRADUATION**

Early graduation is encouraged only 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.

**DESIGNING YOUR FUTURE**  
**ADVICE FOR COLLEGE BOUND STUDENTS**

(A statement from the President's Council of Michigan's State Colleges and Universities)

As you and your parents, with the assistance of teachers and counselors, plan a high school program, you should be aware that the courses you take will have a major effect on your prospects for admission to particular college programs and success if admitted. If you are already certain about the field you wish to enter, then seek information and advice from counselors and from college catalogs on the proper preparation for that field of study. When planning for the ninth or tenth grade, however, only a few students are certain for their future goals; most will want to try out a variety of subject areas while keeping their options open. It is to this large majority of students and their parents that this statement is addressed. Since courses tend to increase in complexity from year to year, the program you take in the ninth or tenth grade is likely to have a significant effect on the courses that can be taken in the twelfth grade. Thus it is extremely important that the first choices be made wisely. While the precise requirements and recommendations for high school preparation differ among colleges, and among different programs in the same college, the four year public colleges and universities of Michigan have agreed that a student who follows our recommendations will be keeping open the widest possible set of options with respect to the ultimate choice of a college program, and will increase the chance of success if admitted. Certain schools and programs (schools of art and music, for example) have specialized admission requirements from school counselors or directly from the appropriate college admissions office. The President's Council of State Colleges and Universities strongly recommends that college bound students take the following distribution of classes. Studies show students who take college level courses while in high school rarely drop out of school; require fewer remedial and entry level courses; have a greater chance of graduating; and could earn over \$1 million more in their lifetime. In addition, two more major studies show that even students who struggle in an AP course and FAIL the exam are more likely to graduate from college than those who are kept out of the course and the exam altogether.

## COLLEGE PLANNING

<b><u>Grade 9 (1<sup>st</sup> Semester)</u></b>	<b><u>Grade 9 ( 2<sup>nd</sup> Semester)</u></b>
1) English 9	1) English 9
2) Science ( Biology)	2) Science ( Biology)
3) Math (Algebra I / Geometry)	3) Math (Algebra I / Geometry)
4) Physical Education/Health	4) Physical Education/Health
5) Cap/Power point	5) Cap/Power point
6) Foreign Language	6) Foreign Language
7) <i>Elective</i>	7) <i>Elective</i>
<b><u>Grade 10 (1<sup>st</sup> Semester)</u></b>	<b><u>Grade 10 ( 2<sup>nd</sup> Semester)</u></b>
1) English 10	1) English 10
2) Science (Chemistry / Physics)	2) Science (Chemistry / Physics)
3) Math (Geometry: Algebra II)	3) Math (Geometry : Algebra II)
4) World History & Geography	4) World History & Geography
5) Foreign Language	5) Foreign Language
6) Physical Education	6) Physical Education
7) <i>Elective</i>	7) <i>Elective</i>
<b><u>Grade 11 (1<sup>st</sup> Semester)</u></b>	<b><u>Grade 11 ( 2<sup>nd</sup> Semester)</u></b>
1) English 11	1) English 11
2) Science (Chemistry / Physics / Earth Science)	2) Science (Chemistry / Physics / Earth Science)
3) Math (Algebra II : Trig/Calculus)	3) Math (Algebra II : Trig/Calculus)
4) U.S. History & Geography or AP History	4) U.S. History & Geography or AP History
5) <i>Elective</i>	5) <i>Elective</i>
6) <i>Elective</i>	6) <i>Elective</i>
7) <i>Elective</i>	7) <i>Elective</i>
<b><u>Grade 12 (1<sup>st</sup> Semester)</u></b>	<b><u>Grade 12 ( 2<sup>nd</sup> Semester)</u></b>
1) English 12 or AP English 12	1) English 12 or AP English 12
2) AP Chemistry; Physics, Chemistry	2) AP Chemistry; Physics, Chemistry
3) Math (Trig/Calculus or A.P.Calculus)	3) Math (Trig/Calculus or A.P.Calculus . )
4) Economics	4) Civics
5) <i>Elective</i>	5) <i>Elective</i>
6) <i>Elective</i>	6) <i>Elective</i>
7) <i>Elective</i>	7) <i>Elective</i>

## **PLANNING FOR COLLEGE CONTINUED**

Since graduation requirements really represent the minimum of academic classes required to earn a diploma, it should be helpful to students planning to continue their education beyond high school to know what colleges and trade schools expect and recommend. Reading and writing skills are probably the most important tools a student can take to college. Therefore, it is recommended that students take one literature and one composition class each year they are in high school. Keyboarding is another necessary skill; therefore, a computer class is highly recommended. Math is also expected of college prep students at least through geometry and is highly recommended for those going into most trade and industrial programs. Colleges are mainly interested in what classes a student has taken in the areas of English, Math, Science, Social Studies, and Foreign Language. They often re-compute grade point averages using only those classes. For many college majors there are specific requirements, and students interested in them should plan their programs accordingly. Some are mentioned below. For information on others, see your counselor.

### **LIBERAL ARTS** (including pre-law and pre-med, etc.)

Students should have a strong background in math, science, English, and social studies. A foreign language is strongly recommended especially by U of M. A second language and additional social studies are recommended.

### **ENGINEERING**

Math and science test scores must be good. Students must take chemistry and physics, and math through math analysis is required by most schools. Drafting, calculus, and computer courses are recommended.

### **COMPUTER SCIENCE**

Majors in this field need a strong background in college prep classes and will probably have to take calculus in college.

### **BUSINESS**

Business majors should take as much college prep math as possible preferably through Algebra II. Computer classes, especially COBOL, and economics are strongly recommended along with accounting, business law and other business offerings.

### **ART AND MUSIC**

Admittance to these programs is usually, but not always, based on a portfolio or an audition along with indications that the student will be able to handle the academic work required of all college students. Students should take art and music throughout high school along with their academic classes so that they will develop the skill and discipline required to succeed and to prepare a portfolio for art or an audition of music.

## **PLANNING FOR A VOCATIONAL/JOB TRAINING PROGRAM**

Business, industry, and the technical fields have specific requirements in order for you to enter a job or go on for further training after high school. You should carefully plan your course of study to make sure you are prepared for the job or career of your choice. Millington High School offers you excellent vocational education programs. Good reading and writing skills are very important. Math will also be important to you as well as the specialized courses that will prepare you for the job area of your choice. Many apprenticeship programs require algebra or geometry and science. If you are interested in working in an area of technology, check to see what courses are needed: Electronics, computer science, math, science, drafting. In some career areas, there are co-op programs that will give you on the job training and experiences. Some of these co-op positions will lead directly to a job. Be sure you check to see what courses you must take in order to qualify for a co-op placement. For many occupations there are specific requirements; including the ability to work with others and good attendance. Some of the requirements are mentioned below. For information on others, see your counselor.

### **SECRETARIAL/CLERICAL**

Good skills in reading, writing, and spelling are needed; as well as technical skills in typing, computer word processing, filing, bookkeeping, shorthand, use of business equipment. The ability to work well with others is also important.

### **CHILD CARE**

Knowledge and understanding of child growth and development, nutrition, and meal preparation, health and hygiene, care of children, and safety are necessary. The ability to work well with children and patience in caring for them are important.

### **HEALTH OCCUPATIONS**

Knowledge in the biological sciences, health and hygiene, medical terminology, use and care of medical equipment are all important in preparing for a position in the field of health: Nurses aide, dental assistance, nursing home health worker, home care worker. If you are interested in secretarial, clerical work in the health field, the skills for those positions are also necessary.

### **COMPUTER TECHNOLOGY**

Some advance math may be required as well as computer programming and electronics.

### **MARKETING**

Jobs in sales and service require English and math skills. You may also need some work in art and design in preparing to set up displays and to market items attractively. Of course, the ability to work with others is very important.

### **TRADES AND INDUSTRIAL FIELDS**

The knowledge and abilities required are determined by special skills of the job: drafting, home construction, photography, auto mechanics, small engine repair, welding. Math is important. Some fields require measurement skills, others algebra or geometry. The chemical or physical sciences may be required. Consideration should be given to electricity and electronics. Knowledge of computer use in different occupations is also important. Check with your teachers and counselors to make certain you are taking the courses you need.

# Art Courses

**The department's goal is to offer exposure to the different areas of art to students desiring this knowledge or skill. Students have the choice as to how far they will pursue each selected area, providing they have completed the necessary prerequisites.**

## Art I

This is an entry level art class for anyone who has an interest in improving his/her art skills. The class will focus on three major areas drawing, painting, and pottery. Each area will involve two to four projects, plus a quiz on the specific vocabulary terms of that concentration. Successful completion of Art I is a prerequisite for all other art classes.

Prerequisite: .....None Grades 9-12  
Duration:..... One year  
Additional Supplies need for this class:

Credit: ..... 1 Credit  
Fee: ..... \$10.00 each sem.

## Art II

This class will focus on drawing and painting. The first marking period will involve several media choices including pencil, charcoal, pen & ink, scratch art, colored pencil, and mixed media. The second marking period will consist of water color and acrylic painting. Realistic techniques will be emphasized. As with all art classes, self-motivation is essential to complete your projects in a timely manner.

Prerequisite: ..... Art I  
Duration: ..... One year  
Additional Supplies need for this class:

Credit: ..... 1 Credit  
Fee: ..... \$15.00 each sem.

## Art III

This class will start the marking period with several graphic design projects that will focus on personal creativity with various product illustrations. Beginning air brush work will be introduced in the class. The second marking period will introduce the lost wax, and casting of jewelry pieces. Also, additional painting and pottery will be explored at a more advanced level. Self- motivation and a desire to develop detailed, creative, and advanced art work are essential. A main goal will be to develop an art portfolio.

Prerequisite:..... Art II  
Duration: ..... One year  
Additional Supplies need for this class:

Credit: ..... 1 Credit  
Fee: ..... \$15.00 each sem.

## Art IV

Only art students who have a desire to create art at the most advanced high school level should consider Art IV. A strong work ethic is a must. Successful completion of Art III (*as determined by the teacher and or high school principal*). Three to four projects will be done each marking period, half of which will be an individual choice. Some of the required projects will include mixed media, silk screening and painting on stretched canvas.

Prerequisite: ..... Art III  
Duration: ..... One year  
Additional Supplies need for this class:

Credit: ..... 1 Credit  
Fee: ..... \$20.00 + cast metals

# Technology/Business Courses

## Desktop Publishing I

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.

Duration: (One Year-Part I) Credit: 1 Credit  
Additional Supplies need for this class:

## Desktop Publishing II

Students will work on publications using Microsoft Publisher. An emphasis placed on Individual Projects such as the District Newspaper *The Cardinal Call*, awards, and special events.

Prerequisite: Successful completion of Desktop Publishing I  
Duration: One Year (Part II) Credit: 1 Credit  
Additional Supplies need for this class:

## Web Page Design I

Students will learn how to develop web pages using a web page editor. Students will be using the digital camera, video camera, scanner, CD clip art, etc. Projects will include at least one research oriented Web Page. Students will work on a variety of software that they may use in the present and future for work and personal use.

Duration: One Year Credit: 1 Credit  
Additional Supplies need for this class:

## Web Page Design II

A continuation of Web Page I, students will learn how to develop web pages using a web page editor. Students will be using the digital camera, video camera, scanner, CD clip art, etc. Projects will be designed to meet the needs of the Millington Community Schools Web Sight. Students will work on a variety of software that they may use in the present and future for work.

Prerequisite: Successful Completion of Web Page Design I  
Duration: One Year Credit: 1 Credit  
Additional Supplies need for this class:

## Yearbook I

Production of the yearbook, *The Cardinal*, is the primary purpose of the 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, commitments, photo assignments, and yearbook sales and distribution.

Prerequisite: .....Application *Forms are available from Ms. Verhines room 206*  
Duration: .....One Year Credit: ..... 1 Credit  
Additional Supplies need for this class:

## Yearbook II

Production of the yearbook, *The Cardinal*, is the primary purpose of the 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 ad sales, deadline commitments, photo assignments, and yearbook sales and distribution. This course is a continuation of Yearbook I with addition of editorial and photography responsibility.

Prerequisite: .....Application **and** Completion of Yearbook I. *Forms are available from Ms. Verhines room 206*  
*Form available in the Guidance Center*  
Duration: .....One Year Credit: 1 Credit  
Additional Supplies need for this class:

# Foreign Languages

**The Foreign Language Department is open to all interested students regardless, of academic background. Students who plan to attend a four-year college or university after graduating from high school are strongly encouraged to complete three years of the same foreign language.**

### **Spanish I**

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! (I). A grade of C- or better in previous English classes is recommended. Group and individual projects may be required.

Prerequisite: .....None ( 9 grade)

Duration: ..... One Year

Additional Supplies need for this class:

Credit: ..... 1 credit

### **Spanish II**

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 maybe required.

Prerequisite: .....Successful completion of Spanish I

Duration: ..... One Year

Additional Supplies need for this class:

Credit: ..... 1credit

### **Other Foreign Language**

See Michigan Virtual High School

German I, II, III & IV Non Teacher / MVHS

French I, II, III & IV Non Teacher / MVHS

Spanish I, II, III & IV Teacher for I & II Non Teacher for III & IV / MVHS

Duration: ..... One year

Additional Supplies need for this class:

Credit: ..... 1 credit

## **Industrial Education**

### **Shop I**

This course is a beginning course in woodworking and basic background in machine operations. Areas covered in this class are project planning, lumber and stock selection, use of hand tools, and use of woodworking machinery. It also includes work with lathes, welders, grinder mills, drill press, band saws, and foundry equipment. Student projects will be required throughout the year to develop the skills needed for woodworking and metal working. This class is beneficial for students who want to have woodworking and metal working as a hobby or profession. There will be a \$10.00 fee for materials in this class. Cost of materials will be charged to the student as the supplies are used. Safety glasses are required in all shop classes. Students are also strongly urged to enter a project in the industrial arts competition in the spring.

Prerequisite: .....None

Credit: ..... 1 credit

Duration: ..... One year

Fee: ..... \$10.00 each sem.

Additional Supplies need for this class:

## **Shop II**

This course is a continuation of Shop I. The projects are to be more difficult than those completed in Shop I. There will be a \$10.00 fee for materials in this class. Students are also required to be involved with tool repair and maintenance. Cost of materials will be charged to the student as the supplies are used. Safety glasses are required in all shop classes. All students are required to enter a project in the industrial arts competition in the spring.

Prerequisite: .....Successful completion of Shop I

Credit: ..... 1 credit

Duration: ..... One year

Fee: ..... \$10.00 each sem.

Additional Supplies need for this class:

## **Shop III**

This course is a continuation of Shop II. The projects are to be more difficult than those completed in Shop II. There will be a \$10.00 fee for materials in this class. Students are also required to be involved with tool repair and maintenance. Cost of materials will be charged to the student as the supplies are used. Safety glasses are required in all shop classes. All students are required to enter a project in the industrial arts competition in the spring.

Prerequisite: .....Successful completion of Shop II

Credit: ..... 1 credit

Duration: ..... One year

Fee: ..... \$10.00 each sem.

Additional Supplies need for this class:

## **Shop IV**

For the student that wants to experience both wood and metal practices. Emphasis will be on layout and measuring tools used in the wood and metal shop industry. Also the student will learn care and maintenance of the tools and machines used in the wood and metal shop areas.

Prerequisite: .....Successful completion of Shop III

Credit: ..... 1 credit

Duration: ..... One year

Fee: ..... \$10.00 each sem.

Additional Supplies need for this class:

# **LANGUAGE ARTS – ENGLISH**

## **English 9**

This is a required class for all 9<sup>th</sup> 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. Work will include book reports and formal writing assignments.

Prerequisite: .....None  
Duration: .....One Year

Credit: .....1 credit

### **English 10**

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: .....Successful completion of English 9  
Duration: .....One Year

Credit: .....1 credit

### **English 11**

The purpose of this course is to give the general curriculum students an overview of America's great authors and literary works which are part of their American heritage, and to teach the principles of writing exemplified in American Literature. Semester one will cover colonization through the Civil War period and Semester two will cover 1865 to the present. Required assignment may include reports, essays, term papers, and projects, group and creative writing, among others.

Prerequisite: .....Successful completion of English 10  
Duration: .....One Year

Credit: .....1 credit

### **English 12**

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 appropriate to the general student, will be included. Vocabulary study, short papers, and projects may be required.

Prerequisite: .....Successful completion of English 11  
Duration: .....One Year

Credit: .....1 credit

### **AP English 12**

AP English 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 English should be willing to devote the energy necessary to complete a course more rigorous and demanding than other high school English classes designed for a college-bound students. Students taking AP English will be offered the opportunity to take the Advance Placement examination in the spring. This course will be graded on a 5 point grading scale. **It should be noted that once you register for this year long class, you will not be allowed to drop. Also, students who take an A.P. class are required to take the A.P. Exam. The cost for the A.P. exam at this time is \$85.00**

Prerequisite: .....Successful completion of English 11  
Duration: .....One Year

Credit: .....1 credit

## **Math Courses**

**To fulfill graduation requirements students must take 8 semesters of mathematics. Students**

**who are planning to attend a four-year college or university after graduating from high school are encouraged to take additional math courses.**

**Algebra I**

This course involves a study of the entire real number system and its properties. Students who took algebra 1 at the junior high but did not receive a SCORE of 85 % or better ON THE EXIT EXAM are required to take high school algebra 1. Topics include: solving equations, polynomials, special products, and graphing on both number lines and coordinate planes. The purpose is to learn to change mathematical ideas into symbols and then use them to solve problems. This full year course is for all students. Emphasis is placed on problem solving techniques.

Duration: ..... One year

Credit: ..... 1 credit

**Geometry**

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.

Prerequisite: ..... Successful completion of Algebra I

Duration: ..... One year

Credit: ..... 1 credit

**Algebra II**

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. In addition, students must have received a grade C or higher in Geometry or be concurrently enrolled in Geometry.

Prerequisite: ..... Successful completion of Algebra I and Geometry

Duration: ..... One year

Credit: ..... 1 credit

**Pre Calculus**

As the fourth class in a sequence of courses it is 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.

Prerequisite: ..... Successful completion of Algebra I, Geometry and Algebra II

Duration: ..... One year

Credit: ..... 1 credit

**A.P. Calculus**

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 5 point grading scale. **It should be noted that once you register for this year long class, you will not be allowed to drop. Also, students who take an A.P. class are required to take the A.P. Exam. The cost for the A.P. exam at this time is \$85.00**

Prerequisite: ..... Successful completion of Algebra I at junior high, Geometry, Algebra II and Pre Calculus

Duration: ..... One year

Credit: ..... 1 credit

**Math Sequence for students entering the 9<sup>th</sup> grade.**

	<b>Column 1</b>	<b>Column 2</b>
9 <sup>th</sup> grade	Algebra I	Geometry
10 <sup>th</sup> grade	Geometry	Algebra II
11 <sup>th</sup> grade	Algebra II	Pre Calculus
12 <sup>th</sup> grade	Pre Calculus or 4 <sup>th</sup> year of math	A.P. Calculus or 4 <sup>th</sup> year of math

**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.

### **Semester General Courses**

These are semester student-paced courses that offer learners a fast, flexible way to pick up an elective or required class and even recover credit. Instructors in these courses set pacing guidelines for completing assignments, though won't assign due dates. Instructors encourage students, monitor their progress and grade coursework and are available to students to answer questions and provide guidance.

### **Advanced Placement**

Advanced Placement /courses offer college-level instruction to high –achieving students, without the expense of adding an in-seat AP class. College-level courses include tutorials, multimedia simulations and online discussions. An AP exam review is included with all AP courses. *It should be noted that once you register for this year long class, you will not be allowed to drop. Also, students who take an A.P. class are required to take the A.P. Exam. The cost for the each A.P. exam at this time is \$85.00.*

### **Music Courses**

## **Band**

Band is open to students in the 9<sup>th</sup> through 12<sup>th</sup> grades with previous instrumental experience. A performance audition may be required at the discretion of the instructor. 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 band festival, 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 of the instructor to reenter.

Students are required to attend all performances, **a minimum of one after school and/or evening rehearsals per week during marching season. Attendance** at a preschool camp will also be **required**. Uniforms are issued to each participant; but students will be asked to provide black shoes and black socks. Students are to provide their own instrument except the larger instruments (euphoniums, tubas, and percussion) and to maintain them in working order. Students successfully completing a full year of band activities are eligible for a letter awarded by the music department.

Prerequisite: Previous instrumental music experience. Uninterrupted semesters of participation in band or audition on entrance  
Duration: .....One year                      Credit: .....1 credit                      Fee: .....\$7:00 Instrument Cleaning Fee

## **Choir**

Choir is open to students in the 9<sup>th</sup> through 12<sup>th</sup> grades. An entrance audition will be required at the discretion of the instructor. Time in this class is spent learning basic music skills, learning about voice control, warming up and rehearsing. Students must audition for the correct voice placement such as soprano, second soprano, alto, tenor, or bass. **The group performs in concerts both at school and at community functions. Attendance at all dress rehearsals and concerts is mandatory. Music is provided for each student. Music performed ranges from pop to spiritual to 16<sup>th</sup> century mandrigal. Students may be required to provide some sort of uniform.** Students successfully completing a full year of choir activities with perfect attendance at all functions are eligible for a letter awarded by the music department.

Prerequisite:.....None  
Duration ..... One year                      Credit ..... 1 credit

## **Physical Education Courses**

**Two years of physical education is required for all ninth graders. Physical education, an integral part**

of the total education process, develops the student's physical, social, mental, and emotional fitness through the medium of physical activities. During the high school physical education program, stress is placed on physical fitness, highly organized team games, and on dual and individual games. The students develop sufficient skills so that when they leave school they will have the desire and the knowledge to participate successfully in many activities which are rich in carry-over values for leisure time use.

### **PHYSICAL EDUCATION / HEALTH**

Taught at the freshman level will be 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 9 weeks of health instruction spread out over the year. Physical Education uniforms are purchased for all 9<sup>th</sup> graders.

Duration: ..... One year

Credit: ..... 1 credit

### **(SST) Speed and Strength Training Curriculum for Physical Education and Athletic Performance (SST 1)**

This course is designed for athletes or students who are looking to improve overall body strength. Students will develop body strength, flexibility and agility. Principles of dynamic warm up, speed training and strength training will be utilized in this class. Individual training programs will be developed to improve the student's physical appearance, overall performance and athletic ability. Nutrition, posture and physical awareness will also be emphasized, as well as plyometric activities. This SST Curriculum features the Michigan Physical Education Framework Standards.

Prerequisite: ..... Open 9<sup>th</sup>-12<sup>th</sup> grade

Duration: ..... One year

Credit: ..... 1 credit

### **(SST) Speed and Strength Training Curriculum for Physical Education and Athletic Performance (SST 2)**

This course is designed for athletes or students who are looking to improve overall body strength. Students will develop body strength, flexibility and agility. Principles of dynamic warm up, speed training and strength training will be utilized in this class. Individual training programs will be developed to improve the student's physical appearance, overall performance and athletic ability. Nutrition, posture and physical awareness will also be emphasized, as well as plyometric activities. This SST Curriculum features the Michigan Physical Education Framework Standards.

Prerequisite: ..... Successful completion of SST 1

Duration: ..... One Year

Credit: ..... 1 credit

Additional Supplies need for this class: Physical Education uniforms are to be used, students can use the uniform that was provided for them as 9<sup>th</sup> graders or they can purchase a new uniform for \$20.00 in the office.

### **(SST) Speed and Strength Training Curriculum for Physical Education and Athletic Performance (SST 3)**

This course is designed for athletes or students who are looking to improve overall body strength. Students will develop body strength, flexibility and agility. Principles of dynamic warm up, speed training and strength training will be utilized in this class. Individual training programs will be developed to improve the student's physical appearance, overall performance and athletic ability. Nutrition, posture and physical awareness will also be emphasized, as well as plyometric activities. This SST Curriculum features the Michigan Physical Education Framework Standards.

Prerequisite: ..... Successful completion of SST 2

Duration: ..... One Year

Credit: ..... 1 credit

Additional Supplies need for this class: Physical Education uniforms are to be used, students can use the uniform that was provided for them as 9<sup>th</sup> graders or they can purchase a new uniform for \$20.00 in the office.

### **(SST) Speed and Strength Training Curriculum for Physical Education and Athletic Performance (SST 4)**

This course is designed for athletes or students who are looking to improve overall body strength. Students will develop body strength, flexibility and agility. Principles of dynamic warm up, speed training and strength training will be utilized in this class. Individual training programs will be developed to improve the student's physical appearance, overall performance and athletic ability. Nutrition, posture and

physical awareness will also be emphasized, as well as plyometric activities. This SST Curriculum features the Michigan Physical Education Framework Standards.

Prerequisite: .....Successful completion of SST 3

Duration: .....One Year

Credit: ..... 1 credit

Additional Supplies need for this class: Physical Education uniforms are to be used, students can use the uniform that was provided for them as 9<sup>th</sup> graders or the can purchase a uniform for \$20.00 in the office.

### **ADVANCED PHYSICAL EDUCATION I**

This class is intended for students who are interested in fostering better use of their leisure time. Team and individual lifetime activities are stressed. Officiating skills will be taught skills will be taught on a three year rotation. Football, basketball, and volleyball will be taught first semester; softball, baseball, and soccer will be taught second semester. Throughout the year, focus will be placed on fitness including weight lifting and circuit training.

Prerequisite: .....Physical Education/Health

Duration: .....One Year

Credit: ..... 1 credit

Additional Supplies need for this class: Physical Education uniforms are to be used, students can use the uniform that was provided for them as 9<sup>th</sup> graders or the can purchase a uniform for \$20.00 in the office.

### **ADVANCED PHYSICAL EDUCATION II**

This class is intended for students who are interested in fostering better use of their leisure time. Team and individual lifetime activities are stressed. Officiating skills will be taught skills will be taught on a three year rotation. Football, basketball, and volleyball will be taught first semester; softball, baseball, and soccer will be taught second semester. Throughout the year, focus will be placed on fitness including weight lifting and circuit training. Advanced Physical Education II is a continuous part of physical growth and fitness.

Prerequisite: .....Advanced Physical Education I

Duration: .....One Year

Credit: ..... 1 credit

Additional Supplies need for this class: Physical Education uniforms are to be used, students can use the uniform that was provided for them as 9<sup>th</sup> graders or the can purchase a uniform for \$20.00 in the office.

## **Science Courses**

The Science Department offers many courses to fulfill the needs of all students. Courses are designed so that students can explore the material universe and seek orderly explanations of the objects and events observed. Laboratory experiences will encourage the student to investigate, inquire, do, act, participate, and invent.

## Biology

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.

Prerequisite: .....9<sup>th</sup> grade

Duration: .....One Year

Credit: ..... 1 credit

## Chemistry

This course is designed for those students who have received a C or better in math and/or science and/or teacher/principal recommendation. 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. It is recommended that students taking this course have completed Algebra I. Tech center students may take this course during their senior year to receive MMC science credit.

Prerequisite: ..... 11<sup>th</sup> or 12<sup>th</sup> grade

Duration: .....One Year

Credit: ..... 1 credit

## Physics

This course covers the study of matter and energy. First semester includes vectors, velocity and acceleration, heat, work, simple machines, and energy. Second semester includes light, sound, electricity, and atomic energy. Lab reports comprise a major portion of the grade. Students must have successfully completed Algebra II or be enrolled in Algebra II.

Prerequisite: ..... 11<sup>th</sup> grade. Must have passed Algebra II or be enrolled in Algebra II

Duration: .....One Year

Credit: ..... 1 credit

## AP Chemistry

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 5 point grading scale. **It should be noted that once you register for this year long class, you will not be allowed to drop. Also, students who take an A.P. class are required to take the A.P. Exam. 18 students must register for the class in order for the MHS to offer this course. The cost for the A.P. exam at this time is \$85.00**

Prerequisite: ..... 12<sup>th</sup> grade, Chemistry I, Algebra II or enrolled in Algebra II

Duration: .....One Year

Credit: ..... 1 credit

## Applied Chemistry

This course is designed for those students who have received a C- or below in math and/or science and /or teacher/principal recommendation. Applied Chemistry will provide an interactive approach that will focus on all the real life applications for chemistry. The students will be expected to participate in lectures, lab activities and lab report, homework and presentations. Tech center students may take this course during their senior year to receive MMC science credit. This class is for juniors only or senior Tech center students.

Prerequisite: ..... 10 or 11<sup>th</sup> Grade

Duration: .....One Year

Credit: ..... 1 credit

## Conceptual Physics

Conceptual Physics is intended to introduce students to many of the main concepts of physics. The course utilizes a less mathematics and more verbal approach to explain how everyday events occur. The class is a lab oriented. Students will be required to use basic algebra, perform experiments, interpret data and use higher order thinking skills to apply principles to everyday events. Students who feel they may need a background in physics for the future, or have an overall interest in science should take this course.

Prerequisite: ..... Pass 10<sup>th</sup> grade Chemistry

Duration: .....One Year

Credit: ..... 1 credit

## Earth Science

Earth science is the study of plant Earth, the processes and forces that change it and the materials from which it was made. The long history of the earth and its place in the universe are additional areas of study. The class will focus on the four areas of Earth Science, Geology, Meteorology, Astronomy and Oceanography. The theories scientist use to develop an understanding of the Earth, the technology developed to increase that knowledge, and the impact humans have on the environment will allow students to appreciate our plant and home.

Prerequisite: ..... 12<sup>th</sup> Grade For those not attending the tech center.

Duration: .....One Year

Credit: ..... 1 credit

# Social Studies Courses

## World History and Geography

Global Issues is a year long course that is a graduation requirement usually taken in 10<sup>th</sup> 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. Global Studies will cover the impact of major events in world history, geography, government and economics.

Prerequisite: ..... 10<sup>th</sup>

Duration: ..... One Year

Credit: ..... 1 credit

## U.S. History and Geography

American History is a year long course required for graduation which is normally completed in the 11<sup>th</sup> grade. The course provides a reasonably detailed study of the political, social, and economic growth of the U.S. from 1870 to present.

Prerequisite: ..... 11<sup>th</sup>

Duration: ..... One Year

Credit: ..... 1 credit

## AP U.S. History and Geography

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 advanced placement. U.S. History Exam in the spring, which provides college credit if successfully completed. This course will be graded on a 5 point grading scale. **It should be noted that once you register for this year long class, you will not be allowed to drop. Also, students who take an A.P. class are required to take the A.P. Exam. . The cost for the A.P. exam at this time is \$85.00**

Prerequisite: ..... 11<sup>th</sup> or 12<sup>th</sup> Grade

Duration: ..... One Year

Credit: ..... 1 credit

## Civics

Government is a semester long course that must be completed prior to high school graduation. Major emphasis is on National Government. 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.

Prerequisite: ..... 12<sup>th</sup> Grade

Duration: ..... One Semester

Credit: ..... ½ Credit

## Economics

This course is a graduation requirement, usually taken in the 10th grade. Students are introduced to the American economic system in this class. Economics involves the study of the ways in which societies use their limited resources to satisfy the 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.

Prerequisite: ..... 12<sup>th</sup> Grade

Duration: ..... One Semester

Credit: ..... ½ Credit

# Specialized Educational Option

**Prerequisite:** Permission Required

**Description:** Credit make up courses are offered online. Students are not allowed to take classes for credit make-up until they have taken and failed the course offered at Millington High School. Any credit earned in the process will be denoted on the student's transcript as a "C / NC (credit / no credit)" and will not be included in computation of grade point average. All credit make-up courses must be approved by the counselor prior to enrollment. The fees for make-up courses will be the responsibility of the student.

### **REPEAT COURSES**

**Grades 10 – 12**

**Prerequisite:** Permission Required

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

### **TESTING OUT POLICY**

**Grades 9 – 12**

**Description:** In accordance with PA 335, Millington High School will provide eligible students with the opportunity to test out of high school courses. The testing-out process requires interested students to complete the following steps:

- 1) Meet eligibility requirements.
- 2) Submit application to Guidance Department.
- 3) Interview with Principal and Course Instructor.
- 4) Pass exit exam with a score of 80 % or better.

**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.

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

**Additional Policies:** 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 recorded on the transcript as "C / NC (credit / no credit)" "C" grades are not used in the computation of grade point average. A score of 80 % on the exit exam is needed to get credit.

### **ADVANCED PLACEMENT COURSES**

**Grades 11 – 12**

**Description:** The 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 with the course. **It should be noted that once you register for this year long class, you will not be allowed to drop. Also, students who take an A.P. class are required to take the A.P. Exam. The cost for the A.P. exam at this time is \$85.00**

Current AP Course Offerings:

AP United States History and Geography

AP English Language and Composition

AP Chemistry

AP Calculus

AP Course descriptions are found under the appropriate department heading. We also offer many A.P. classes though MVHS.

**NOTE:**

**\*Students do not necessarily have to take the A.P. class to take the A.P. Exam, it is however strongly recommended.**

**\*Non-offering of a course = See page 29**

*PROGRAMS OFFERED THROUGH THE TUSCOLA TECHNOLOGY CENTER*

ARTS & COMMUNICATIONS

**Advertising Design**

Prepare for an exciting career in Advertising Design, where you will develop creative approaches to promote products, services, and ideas for commercial use. The printing 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 advertising and graphics 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. College credits may be earned from Baker College, Davenport University & Delta College. Student club: Michigan Industrial Technology Education Society and Skills USA.

### Graphic Communications

The printing 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 and printing industry in fields such as computer graphics, printing, photography, graphic design, screen printing and illustration. 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. 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

#### Accounting/Financial Services

Accounting/Financial Services offers students accounting technology in the career fields of payroll clerk, money manager, accounting assistant, accounting specialists and senior accounting. Students have the opportunity to gain competencies using business software to learn automated accounting, accounts receivable/payable and general ledger accounting commonly used in business. If a student is not sure he or she wants to work directly in the field of accounting, the Accounting/Financial Services curriculum can benefit individuals in any career. Microsoft Office Specialist, Word, Excel, PowerPoint, Access & Outlook certifications are offered and college credit may be earned from Baker College, Davenport University, Delta College & University of Northwestern 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. Student club: Business Professionals of America.

#### Administrative Management Support

Students are offered advanced office technology in the career fields of administrative office professional, medical and legal office specialist. Students have the opportunity to gain competencies using software to learn voice recognition, desktop publishing, graphics and multimedia techniques commonly used in business. Even if a student is not sure he or she wants to work directly in the field of business, the Administrative Management Support curriculum can benefit individuals in any career. Microsoft Office Specialist, Word, Excel, PowerPoint, Access & Outlook certifications are offered and college credit may be earned from Baker College, Davenport University, Delta College & University of Northwestern Ohio. This course also fulfills the Michigan Merit Curriculum graduation requirement for Visual, Performing, and Applied Arts, the on-line experience, and may qualify for English Language Arts. Student club: Business Professionals of America.

#### 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, TestOut 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. Student club: Business Professionals of America.

#### Hospitality/Food Services Management

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. 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 and may also qualify for English Language Arts. 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/Health Technology

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 may also qualify for the 3<sup>rd</sup> Level of Science. Student club: Health Occupation Students of America. College credits may be earned from Baker College, Davenport University & Delta College.

### Human Services

#### Early Childhood Professions

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 and may also qualify for the English Language Arts.

### 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. Student club: SkillsUSA.

### 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, and may also qualify for English Language Arts. Student club: SkillsUSA

### Natural Resources & Agriscience

#### Floral & Greenhouse Technology

Floral Design explores the careers in Flower shop Management. Students design floral arrangements, corsages, boutonnieres, wedding and funeral design students use fresh, silk and dried materials selling and management skills are taught in the TTC Flower Shop. Greenhouse Technology explores the commercial growing of plants such as; poinsettias, Easter Lilies, green plants, annuals and perennials. Students are taught the skills, planting, pruning, water fertilizing, and pest control in our greenhouses. This course fulfills the Michigan Merit Curriculum graduation requirement for Visual, Performing, and Applied Arts, the on-line experience, Fourth Level Math, and also qualifies for the Third Level Science. College credits may be earned from St. Clair Community College. Student club: FFA

#### Landscaping & Turfgrass Technology

Landscaping explores the fields of landscape design, installation and maintenance. Areas of study include how to design using CADD system, pruning, watering, fertilizing, plant identification for residential and commercial sites. Michigan Nurseryman & Proven Winner certifications are offered, as well as, college credit from St. Clair Community College. Turfgrass Technology explores the field of growing and maintenance of turfgrass. Residential, commercial parks and golf courses will be the areas of focus. Students learn to plant, irrigate, fertilize and mow. This course fulfills the Michigan Merit Curriculum graduation requirement for Visual, Performing, and Applied Arts, the on-line experience, the Third Level Science, and also qualifies for the Fourth Level of Math. Student club: FFA

#### Natural Resources Management

Students explore the environment, natural resources, fisheries and wildlife & forest. This course fulfills the Michigan Merit Curriculum graduation requirement for Visual, Performing, & Applied Arts, the on-line experience, the Third Level Science, and also qualifies for the Fourth Level of Math.

#### Small Animal Care

Students will explore the fields of small animals. Students will care for a number of small animals in the classroom. The students may also explore other areas of animal interest as well. This course fulfills the Michigan Merit Curriculum graduation requirement for Visual, Performing, and Applied Arts, the on-line experience, Third Level Science, and also qualifies for the Fourth Level of Math.

*All programs may be taken for a second year. Programs provide the students with the academic needs as well as hands-on experiences. Students are encouraged to experience co-op or work experiences. Teamwork is emphasized written the areas of scientific inquiry and problem solving, throughout these courses. Michigan Floral, Michigan Nurseryman & Proven Winner Certifications are offered. Michigan Floral, Michigan 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. College credits may be earned from Delta College & Mott College. Student Club: SkillsUSA

#### 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. College credits may be earned from Baker College, Delta College, Mott College, University of Northwestern Ohio, St. Clair Community College and UTI. Student Club: SkillsUSA 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 SkyTrak/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. Student club: Michigan Industrial Technology Education Society & SkillsUSA.

#### Drafting/CAD

Drafters prepare detailed technical drawings that are necessary to produce a project or product - - from a child's toy to components for the space shuttle. Mechanical drafters draw detailed working diagrams of machinery and mechanical devices, including dimensions, tolerances, finishes, and other engineering information. Students are taught using demonstration, technical hands-on learning experiences, group activities, fieldtrips and lectures. 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. College credits may be earned through Baker College and Delta College. Student club: Michigan Industrial Technology Education Society & SkillsUSA.

#### Electricity/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 Math, and may also qualify for the Third Level of Science. College credits may be earned through Delta College. Student club: Michigan Industrial Technology Education Society and Skills USA.

#### Power 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. College credits may be earned through Delta College, Ferris State University and the University of Northwester Ohio. Student Club: SkillsUSA

#### 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. 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 & SkillsUSA.

#### *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.

*Certifications:*

<b>AFS/AMS:</b>	MOS Certification
<b>Agri Science:</b>	Michigan certified Florist, Michigan Nurseryman Certifications, Proven Winner Certification, & MI Pesticide Certification
<b>Auto Body:</b>	State of Michigan, I-CAR & ASE
<b>Auto Technology:</b>	State of Michigan, ASE National Certification, TIA (Tire Industry Association), ALLDATA National Certification & Career Safe Certification
<b>Early Childhood Prof:</b>	CDA (Child Development Associate) and First Aid/CPR/AED
<b>Construction:</b>	RTFL Rough Terrain Fork Lift
<b>Cosmetology:</b>	State Board Exam
<b>CTM:</b>	A+, Network+, Linux+, Security+, and CIW (Certified Internet Webmaster)
<b>Graphics:</b>	PrintEd Certification
<b>Hospitality/Foods:</b>	ServSafe & ProStart Certification
<b>Law Enforcement:</b>	First Aid/CPR/AED
<b>Marketing:</b>	ASK (Assessment of Skills and Knowledge for Business)
<b>Nursing/Health:</b>	First Aid/CPR/AED, Certified Nursing Assistant (CNA) and Pharmacy Technician Certification
<b>Power Technology:</b>	State of MI Heavy Truck Repair, ASE & ALLDATA
<b>Welding:</b>	AWS SENSE Certification, AWS State of Michigan Certification & I-CAR

*Colleges we articulate with:*

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

*College we articulate with by Program:*

All articulation agreements have to be reestablished annually. All articulation agreements for 09-10 school year are not complete at this time; however, it will very closely correlate with 08-09 listed on the above website.

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 the availability of courses when taken out of the recommended course sequences. *Courses failed will need to be retaken in the Millington High School summer school session or during an elective course the following year. The responsibility for making up required courses is the sole responsibility of the student and parent.*