

Marquette Senior High School Course Offerings



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No person shall, on the basis of sex, race, color, national origin, or handicap, be excluded from participation in, be denied the benefits of, or be subjected to discrimination, in any educational programs or activities.

AN IMPORTANT MESSAGE TO PARENTS AND STUDENTS

The annual course selection process is central to the purpose and success of each student's education plan. This course offerings book will aid your planning efforts as it contains information about the registration process and course offerings for the next school year. Students and parents should read the guide together to develop and/or refine a four-year plan of courses based upon graduation requirements and the student's interests, abilities, and future plans. We have included space in this guide for you to map out your four-year plan.

A successful registration process depends on close cooperation between school and home. Our counselors and teachers will be glad to provide additional assistance in the selection process. Please take care to make good decisions because the opportunity for schedule changes later is extremely limited. Remember that choosing alternatives is as important as primary requests. Also, be sure to observe the prerequisites and grade levels included in this guide as they are a crucial aspect of the registration process.

The scheduling process allows students to request courses of interest. However, courses requested may not be offered depending on the overall demand for those courses every semester or every year.

If we can be of any assistance with this important activity, please do not hesitate to contact us.

MSHS Guidance Office

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ADVANCED PLACEMENT COURSES (AP)

AP courses are designed for the student who is ready to have a college-level learning experience in high school. Certain prerequisites are necessary for admission into AP courses: previous courses and grades, work ethic, department approval, and commitment to the workload of the college-level course. Specific requirements are listed with each AP course description.

Students interested in taking AP courses need to understand the commitment of time (at least one hour per night per class) and the other commitments they take on (i.e., athletics, clubs, activities, work). **It is the expectation of the school that students who enroll in AP courses are committed for the entire year.**

Students may take a national exam in the spring that may give them college credit. The fee to take the test is the responsibility of the student. Contact your School Counselor for more information or go to <https://www.collegeboard.org/>.

TESTING OUT OF COURSES

Students who are interested in testing out of courses in order to advance to higher level courses should refer to School Board Policy #5461 (<https://mshs.mapsnet.org/resources>).

The deadlines for requesting to test out are April 15th for testing out in May/June, and December 1st for testing out in January. All requests must be submitted to the Guidance Office on a "Test Out Request" Form 5460B- F1. Information regarding when test out forms are available will be posted in the MSHS Bulletin as well as on the student announcements.

STUDENT ATHLETES

At Marquette Senior High School, students must have passed five classes the previous semester to be eligible to participate in a sport the next semester. Students should refer to the Athletic Code in the Student Handbook.

If you want to play sports at an NCAA Division I or II school, you will need to start by registering for a Certification Account with the NCAA Eligibility Center at eligibilitycenter.org.

Prospective student athletes should begin monitoring eligibility requirements on this website beginning in 9th grade. Be sure to check the NCAA for current information as you complete your high school course selections.

MSHS Graduation Requirements

Students graduating from MSHS must accumulate a minimum of **25.5 credits**, including successful completion of the following required courses. It is the responsibility of the student and parent to ensure all requirements are met.

ENGLISH/LANGUAGE ARTS 4 CREDITS

- 9th Grade English (1.0 credit)
- 10th Grade English (1.0 credit)
- 11th Grade English **OR** AP Language & Composition (1.0 credit)
- 12th Grade English **OR** AP Literature & Composition (1.0 credit)

MATHEMATICS 4 CREDITS

- Algebra I
- Geometry **OR** Geometry in Construction Math (1.0 credit)
- Algebra II **OR** Algebra II Foundations (1.0 credit)
- Senior Year Math Class (1.0 credit)

SCIENCE 3 CREDITS

- Earth and Space Science (1.0 credit)
- Biology (1.0 credit)
- Chemistry **OR** Physics (1.0 credit)

SOCIAL STUDIES 3 CREDITS

- 10th Grade: U.S. History **OR** World History* (1.0 credit)
- 11th Grade: World History **OR** AP U.S. History* (1.0 credit)
- 12th Grade: Economics & Government **OR** AP Government (1.0 credit)

*Only students who plan to take AP U.S. History as a Junior need to enroll in World History in their Sophomore year.

WORLD LANGUAGE 2 CREDITS

- Option #1: Two years of the same World Language (2.0 credits)
- Option #2: One year of World Language + 1.0 extra credit of a Visual, Performing, or Applied Arts (2.0 credits)

VISUAL, PERFORMING OR APPLIED ARTS 1 CREDIT

- Visual, Performing Arts: All courses with a letter "F" preceding the computer number
- Applied Arts: All courses with the letter "P" or "C" preceding the computer number

FRESHMAN SEMINAR 0.5 CREDIT

INTRO TO CYBER 0.5 CREDIT

HEALTH 0.5 CREDIT

PHYSICAL EDUCATION 0.5 CREDIT

- Lifetime Fitness and Sport **OR** Aquatics (0.5 credit)

ALSO REQUIRED:

- **Standard Electives 6.5 CREDITS**
- **Students must take the Michigan Merit Exam (11th grade)**

TOTAL CREDITS 25.5 CREDITS

Four Year Planning

9th Grade		10th Grade	
1st Semester	2nd Semester	1st Semester	2nd Semester
11th Grade		12th Grade	
1st Semester	2nd Semester	1st Semester	2nd Semester

TYPICAL SCHEDULES

<p style="text-align: center;"><u>9TH GRADE</u></p> <p>English 9 Algebra I or Geometry or Geometry in Construction Earth and Space Science Lifetime Health (0.5 credit) Lifetime Fitness or Aquatics (0.5 credit) Freshman Seminar (0.5 credit) Intro to Cyber (0.5 credit) World Language 1 Elective</p>	<p style="text-align: center;"><u>10TH GRADE</u></p> <p>English 10 Geometry, Geometry in Construction, Algebra II, or Algebra II Foundations. US History or World History (if planning on taking AP US History Junior year) Biology 2-3 Electives</p>
<p style="text-align: center;"><u>11TH GRADE</u></p> <p>English 11 or AP Language & Composition Algebra II or Algebra II Foundations World History or AP US History Chemistry or Physics 3 Electives</p>	<p style="text-align: center;"><u>12TH GRADE</u></p> <p>English 12 or AP Literature & Composition Senior Math (1.0 credit) Government/Economics or AP Government 4 Electives</p>

Overview - Course Sequences for Grades 9 through 12

Required Courses for Graduation	9th Grade	10th Grade	11th Grade	12th Grade
Mathematics* 4 credits	Algebra 1	Geometry or Geometry in Construction	Algebra 2 or Algebra 2 Foundations	Pre-Calc, AP Stats, or Senior Math
English* 4 credits	9th Grade English	10th Grade English	11th Grade English or AP Language & Composition	12th Grade English or AP Literature & Composition
Science* 3 credits	Earth & Space Science	Biology	Chemistry or Physics	
Social Studies* 3 credits		US History or World History (if planning on taking AP US History)	World History or AP US History	Government & Economics or AP Government
Freshman Seminar 0.5 credit	Freshman Seminar			
Intro to Cybersecurity 0.5 credit	Intro to Cybersecurity			
Physical Education 0.5 credit	Aquatics or Physical Education - recommended to take in 9th grade			
Health 0.5 credit	Health - recommended to take in 9th grade			
World Language* 2.0 credits	Refer to Course Offerings Book for options. Students must earn 2.0 credits of the same world language or earn 1.0 credit of world language + 1.0 extra visual/performing/applied art credit.			
Visual, Performing, & Applied Arts 1.0 credit	Refer to Course Offerings Booklet for options.	Refer to Course Offerings Booklet for options.	Refer to Course Offerings Booklet for options.	Refer to Course Offerings Booklet for options.
Electives 6.5 credits	Refer to Course Offerings Booklet for options.	Refer to Course Offerings Booklet for options.	Refer to Course Offerings Booklet for options.	Refer to Course Offerings Booklet for options.

*Opportunities for Advanced Placement Courses in these disciplines. Students may have the opportunity to earn college credit for Advanced Placement Courses.

Advanced Mathematics Pathway

Courses	9th Grade	10th Grade	11th Grade	12th Grade
Mathematics* 4 credits	Geometry or Geometry in Construction	Algebra 2	Pre-Calculus or AP Statistics	AP Calculus or AP Statistics

SENIOR COURSES

ENGLISH

- E410 12th Grade English - 1
E420 AP Literature & Composition - 1

MATH

- M520 Algebra II - 1
M522 Algebra II Foundations - 1
M524 Pre-Calculus - 1
M528 AP Calculus A/B - 1
M530 AP Statistics - 1

SCIENCE

- S706 Astronomy - 1
S712 AP Biology - 1
S716 Chemistry+ - 1
S721 Environmental Biology - 1
S723 Anatomy & Physiology - 1
S724 AP Chemistry+ - 1
S724L AP Chemistry Lab - 1
S726 Physics+ - 1
S728 AP Physics+ - 1
S729 Science for Inventors - 1

SOCIAL STUDIES

- A844 U.S. Government - 0.5
A848 AP U.S. Govt and Politics - 1
A850 Economics -0.5
A852 Psychology: Mind, Brain & Behavior- 0.5
A853 Psychology: Learning, Motivation & Memory - 0.5

WORLD LANGUAGE

- L302 French I - 1
L304 French II - 1
L306 French III - 1
L308 French IV-1
L312 Spanish I - 1
L314 Spanish II - 1
L316 Spanish III - 1

L320 AP Spanish - 1

VISUAL ARTS

- F203 Design - 0.5
F204 Drawing & Composition - 0.5
F205 Ceramics & Sculpture - 0.5
F206 Painting - 0.5
F207 Media Fusion - 0.5
F209 Adv. Drawing & Painting - 1
F210 Adv. Ceramics & Sculpture - 1

PERFORMING ARTS

- F220 Mixed Chorus - 1
F228 MSHS Chorale* - 1
F230 Symphony Orchestra* - 1
F238 Concert Orchestra* - 1
F234 Symphony Band* - 1
F236 Wind Ensemble* - 1

JOURNALISM

- F262 Script Writing - 1
F265 Intro to Film (Previously Lit & Film) - 1

APPLIED ARTS

- C014 Computer Applications - 1
P021 Business Management - 1
P022 Marketing - 1
P008 Business Finance+ - 0.5
C020 Digital Design - 1
C025 Advanced Web Design - 1
C030 AP Computer Science A*+ - 1
C256 Graphic Design—Yearbook - 1
P014 Accounting I + - 1

CONSUMER & LIFE STUDIES

- P040 Cooking & Nutrition - 0.5
P045 Cultural Cuisine - 0.5

TECHNICAL EDUCATION

- P462 Wood Technology - 1
P468 Building Constr & Remodel +- 2
P474 Automotive Technology + - 2
P476 Metals Technology I & II - 1
P478 Metals Technology III & IV - 1

PHYSICAL EDUCATION

- H602 Lifetime Health - 0.5
G604 Lifetime Fitness and Sport - 0.5
G020 Max Sport - 0.5
G021 Max Fitness - 0.5
G612 Aquatics - 0.5

GENERAL STUDIES

- T15212 Learning Center (Sem 1) - 0.5
T15312 Learning Center (Sem 2) - 0.5
T210 Links: Peer to Peer - 1

SPECIAL EDUCATION

- 987 Life Skills I* - 1/hour
997 Support Study 12* - 1

WORK BASED PROGRAMS

- 966 Internship Program** - 1- 2
P934 Health Occupations Program +- 2

CAREER & TECHNICAL EDUCATION

- Welding Occupations** + - 2
Hospitality & Culinary Arts**+ - 2
Automotive Technician** + - 2

ONLINE COURSES

See michiganvirtual.org

* Must have instructor approval to take this class. See course description in booklet.

** Special application must be completed

+Qualifies for a senior math credit

JUNIOR COURSES

ENGLISH

E310 11th Grade English - 1
E415 AP Language & Composition - 1

MATH

M520 Algebra II - 1
M522 Algebra II Foundations - 1
M524 Pre-Calculus - 1
M530 AP Statistics - 1

SCIENCE

S706 Astronomy - 1
S712 AP Biology - 1
S716 Chemistry - 1
S721 Environmental Biology - 1
S723 Anatomy & Physiology - 1
S724 AP Chemistry - 1
S724L AP Chemistry Lab - 1
S726 Physics - 1
S728 AP Physics - 1
S729 Science for Inventors - 1

SOCIAL STUDIES

A836 AP US History - 1
A840 World History - 1
A852 Psychology: Mind, Brain & Behavior- 0.5
A853 Psychology: Learning, Motivation & Memory- 0.5

WORLD LANGUAGE

L302 French I - 1
L304 French II - 1
L306 French III - 1
L312 Spanish I - 1
L314 Spanish II - 1
L316 Spanish III - 1

VISUAL ARTS

F203 Design - 0.5
F204 Drawing & Composition - 0.5
F205 Ceramics & Sculpture - 0.5
F206 Painting - 0.5
F207 Media Fusion - 0.5
F209 Adv. Drawing & Painting - 1
F210 Adv. Ceramics & Sculpture - 1

PERFORMING ARTS

F220 Mixed Chorus - 1
F228 MSHS Chorale* - 1
F230 Symphony Orchestra* - 1
F238 Concert Orchestra* - 1
F234 Symphony Band* - 1
F236 Wind Ensemble* - 1

JOURNALISM

F262 Script Writing - 1
F265 Intro to Film (previously Lit & Film)- 1

APPLIED ARTS

C014 Computer Applications - 1
P021 Business Management - 1
P022 Marketing - 1
P008 Business Finance - 0.5
C020 Digital Design - 1
C025 Advanced Web Design- 1
C030 AP Computer Science A* - 1
C256 Graphic Design—Yearbook - 1
P014 Accounting I - 1

CONSUMER & LIFE STUDIES

P040 Cooking & Nutrition - 0.5
P045 Cultural Cuisine - 0.5

TECHNICAL EDUCATION

P462 Wood Technology - 1
P468 Building Constr & Remodel - 2
P474 Automotive Technology - 2
P476 Metals Technology I & II - 1
P478 Metals Technology III & IV - 1

PHYSICAL EDUCATION

H602 Lifetime Health - 0.5
G604 Lifetime Fitness and Sport - 0.5
G020 Max Sport - 0.5
G021 Max Fitness - 0.5
G612 Aquatics - 0.5

GENERAL STUDIES

T15211 Learning Center (Sem 1) - 0.5
T15311 Learning Center (Sem 2) - 0.5
T210 Links: Peer to Peer - 1

SPECIAL EDUCATION

987 Life Skills I* - 1/hour
996 Support Study 11* - 1

CAREER & TECHNICAL EDUCATION

Welding Occupations** - 2
Hospitality & Culinary Arts** - 2
Automotive Technician** - 2

ONLINE COURSES

See michiganvirtual.org

* Must have instructor approval to take this class. See course description in booklet.

** Special application must be completed.

SOPHOMORE COURSES

ENGLISH

E210 10th Grade English - 1

MATH

M510 Geometry I - 1
M511 Geometry in Construction - 1
M520S Algebra II - 1

SCIENCE

S706 Astronomy - 1
S710 Biology - 1
S716S Chemistry - 1
S723 Anatomy & Physiology - 1
S729 Science for Inventors - 1

SOCIAL STUDIES

A830 US History - 1
A840S World History - 1

WORLD LANGUAGE

L302 French I - 1
L304 French II - 1
L312 Spanish I - 1
L314 Spanish II - 1

VISUAL ARTS

F203 Design - 0.5
F204 Drawing & Composition - 0.5
F205 Ceramics & Sculpture - 0.5
F206 Painting - 0.5
F207 Media Fusion - 0.5
F209 Adv. Drawing & Painting - 1
F210 Adv. Ceramics & Sculpture - 1

PERFORMING ARTS

F220 Mixed Chorus - 1
F228 MSHS Chorale* - 1
F230 Symphony Orchestra* - 1
F238 Concert Orchestra* - 1
F234 Symphony Band* - 1
F236 Wind Ensemble* - 1

APPLIED ARTS

Co14 Computer Applications - 1
Po21 Business Management - 1
Po22 Marketing - 1
Po08 Business Finance - 0.5
Co20 Digital Design - 1
Co25 Advanced Web Design - 1
Po14 Accounting I - 1

CONSUMER & LIFE STUDIES

Po40 Cooking & Nutrition - 0.5
Po45 Cultural Cuisine - 0.5

TECHNICAL EDUCATION

P462 Wood Technology - 1
P466 Geometry in Construction
(Applied Arts) - 1
P476 Metals Technology I & II - 1
P478 Metals Technology III & IV - 1

PHYSICAL EDUCATION

H602 Lifetime Health - 0.5
G604 Lifetime Fitness and Sport - 0.5
G020 Max Sport - 0.5
G021 Max Fitness - 0.5
G612 Aquatics - 0.5

GENERAL STUDIES

T15210 Learning Center (Sem 1) - 0.5
T15310 Learning Center (Sem 2) - 0.5
T210 Links: Peer to Peer - 1

SPECIAL EDUCATION

987 Life Skills I* - 1/hour
995 Support Study 10* - 1

ONLINE COURSES

See michiganvirtual.org

* Must have instructor approval to take this class. See course description in booklet.

FRESHMAN COURSES

ENGLISH

E110 9th Grade English - 1

MATH

M506 Algebra I - 1
M510F Geometry I - 1
M511 Geometry in Construction - 1

SCIENCE

S703 Earth and Space Science - 1
S710F Biology - 1

WORLD LANGUAGE

L302 French I - 1
L312 Spanish I - 1

VISUAL ARTS

F203 Design - 0.5
F204 Drawing & Composition - 0.5
F205 Ceramics & Sculpture - 0.5
F206 Painting - 0.5

PERFORMING ARTS

F220 Mixed Chorus - 1
F228 MSHS Chorale* - 1
F230 Symphony Orchestra* - 1
F238 Concert Orchestra* - 1
F234 Symphony Band* - 1
F236 Wind Ensemble* - 1
F246 9th Grade Band - 1

APPLIED ARTS

C014 Computer Applications - 1
P021 Business Management - 1
C020 Digital Design - 1
C015 Intro to Cyber - 0.5

CONSUMER & LIFE STUDIES

P040 Cooking & Nutrition - 0.5
P045 Cultural Cuisine - 0.5

TECHNICAL EDUCATION

P462 Wood Technology - 1
P466 Geometry in Const. (Applied Arts) - 1
P476 Metals Technology I & II - 1

PHYSICAL EDUCATION

H602 Lifetime Health - 0.5
G604 Lifetime Fitness and Sport - 0.5
G612 Aquatics - 0.5

GENERAL STUDIES

T205 Freshman Seminar - 0.5

SPECIAL EDUCATION

987 Life Skills I* - 1/hour
993 Support Study 9* - 1

ONLINE COURSES

See michiganvirtual.org

* Must have instructor approval to take this class. See course description in booklet.

MATHEMATICS

M506 ALGEBRA I* **Grade: 9** **Length: Year** **Credit: 1.0**

The fundamental purpose of this course is to formalize and extend the mathematics that students learned in the middle grades. Because it is built on the middle grades standards, this is a more ambitious version of Algebra I than has generally been offered. Topics will deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend, and students engage in methods for analyzing, solving, and using quadratic functions. Algebra I is the foundational math course that prepares for higher level mathematics later in high school and college.

M510 GEOMETRY I* **Grade: 10** **Length: Year** **Credit: 1.0**

Prerequisite: Successful completion of *Algebra I*

M510F GEOMETRY I* **Grade: 9** **Length: Year** **Credit: 1.0**

Prerequisite: "B" average or better in *MAPS Algebra I* and recommendation of MAPS 8th grade math teacher

This course is a study of Euclidean Geometry (geometry of our everyday world). You will be introduced to the study of sets of points as a formal system developed from the ground floor on up. Successful completion of Geometry I is required for graduation.

M511 GEOMETRY IN CONSTRUCTION MATH* **Grade: 9, 10** **Length: Year** **Credit: 1.0**

Prerequisite for 10th Graders: Successful completion of *Algebra I*

Prerequisite for 9th Graders: "B" average or better in *MAPS Algebra I* and recommendation of MAPS 8th grade math teacher

Concurrent enrollment in *Geometry in Construction Applied Arts (P466)* is required

Geometry in Construction is a nationally recognized program that combines the academics of a traditional geometry course while applying those geometric concepts with the building trade's area. The class is designed for ALL abilities. Annually, students in this class will learn the same academically rigorous math as students in a regular geometry while building a multitude of projects in the woodshop. The class instructors show students exactly how geometry is useful beyond the classroom. This class is a 2-hour class; therefore completion of this class will count for 1 math credit and 1 applied arts elective credit.

M520 ALGEBRA II* **Grade: 11, 12** **Length: Year** **Credit: 1.0**

M520s ALGEBRA II* **Grade: 10** **Length: Year** **Credit: 1.0**

Prerequisite: Successful completion of *Geometry I* or *Geometry in Construction*

This course is a continuation of Algebra I with topics including, but not limited to: number systems, polynomials, rational expressions, linear and quadratic equations, functions, logarithms, conic sections, and an introduction to trigonometry. Algebra II and Geometry I can be taken concurrently if approved.

M522 ALGEBRA II FOUNDATIONS **Grade: 11, 12** **Length: Year** **Credit: 1.0**

Prerequisite: Successful completion of *Geometry I* or *Geometry in Construction*

The purpose of this course is to extend the mathematics that students learned in Algebra I, as well as introduce and refine algebraic topics such as the comparison of linear, exponential, and quadratic functions, rational and radical expressions, trigonometry, conic sections, probability, operations of functions, sequences and series, and polynomial functions. This class is designed for students who plan to take an alternative senior math course such as Health Occupations, Accounting, Physics, etc. A student planning on taking Pre-Calculus should enroll in Algebra II instead of Algebra II Foundations.

Note: This course does not meet NCAA eligibility requirements.

M524 PRE-CALCULUS***Grade: 11, 12 Length: Year Credit: 1.0****Prerequisite: Successful completion of Algebra II**

This course is strongly recommended for any college bound students. The first semester is a continuation of Algebra II in which the students will focus on functions (polynomial, exponential, logarithmic, rational, and other basic parents). The second semester will focus on Trigonometry. We will cover the unit circle and its applications to simplifying and solving trigonometric expressions and equations.

M528 ADVANCED PLACEMENT CALCULUS AB***Grade: 12 Length: Year Credit: 1.0****Prerequisite: "C" or better in Pre-Calculus or department's approval*****(The AP College Board sets the standards for this course.)***

This course is an introductory calculus course intended to prepare the student to take the College Board Advanced Placement Exam. Topics include elementary functions (Alg., Trig., Exp., and Log.), differential calculus (derivatives and applications), and integral calculus (antiderivatives, integration techniques, and applications). Only highly motivated, advanced students should attempt this course. College credit may be earned after successful completion of the national AP exam. A fee is required to take the exam.

M530 ADVANCED PLACEMENT STATISTICS***Grade: 11, 12 Length: Year Credit: 1.0****Prerequisite: Successful completion of Algebra II*****(The AP College Board sets the standards for this course.)***

The Study of statistics is an ideal course for seniors who are planning on going into higher levels of mathematics study at a college or university. Upwards of 50% of all undergraduate degrees require some form of statistics as part of their college program.

SENIOR YEAR MATH CREDIT

All students graduating from the State of Michigan and Marquette Senior High School must earn a math credit their senior year. Once students have earned full credit in Algebra I, Geometry or Geometry in Construction Math, and Algebra II or Algebra II Foundations, students have a variety of options to fulfill this senior year requirement

Courses listed below may be counted towards the senior year math credit unless it is fulfilling another requirement. For further details on the courses, please review the course descriptions on the indicated pages.

Pre-Calculus

Advanced Placement Calculus

Advanced Placement Statistics

Accounting

AP Computer Science A

Business Finance (1/2 credit)

Chemistry

Advanced Placement Chemistry

Advanced Placement Physics

Physics

Health Occupations

Building Construction and Remodeling

Introduction to Automotive Technology

Welding Occupations**

Hospitality & Culinary Arts**

Automotive Technician**

Robotics**

*This course will fulfill a math requirement for graduation and will help prepare students for the SAT/MME.

**A separate application is required for this course. Pick up an application in the Guidance Office.

SCIENCE

S703 EARTH AND SPACE SCIENCE*

Grade: 9 Length: Year Credit: 1.0

Earth and Space Science is an interdisciplinary approach to science that explores questions spanning across deep time—from the beginning of the universe to life on Earth today and into the future. Earth and Space Science explores how we are connected to everything around us and where we may be heading. The course provides a foundation for thinking about the future and the changes that are reshaping our world.

S710 BIOLOGY*

Grade: 9, 10 Length: Year Credit: 1.0

Prerequisite: Completion of *Global Science* or concurrent enrollment in *Global Science*

This course follows a logical sequence through cells, genetics, ecology, evolution, plants, and animals. This class includes labs and in-class activities.

S706 ASTRONOMY

Grade: 10,11,12 Length: Year Credit: 1.0

Prerequisite: *Global Science* or concurrent enrollment in *Global Science*

This course is designed to provide students a working knowledge of the Universe and the tools and modeling we use to understand cosmic phenomena. Topics include observational astronomy, the behavior of light, telescopes, the Sun-Earth-Moon system, the solar system, stars, constellations, galaxies, cosmology, and extraterrestrial life. Students will participate in discussions, hands-on activities, and frequent trips to the Shiras Planetarium.

S712 ADVANCED PLACEMENT BIOLOGY

Grade: 11,12 Length: Year Credit: 1.0

Prerequisite: "B-" or higher in *Biology and Chemistry*

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes, energy and communication, genetics, information transfer, ecology, and interactions. Students will understand key science practices to develop explanations and predictions of natural phenomena, which they will test and refine through laboratory investigations. Students develop advanced reasoning and collect and analyze data using mathematics and other methods, and interpret that data to draw conclusions. College credit may be earned after successful completion of the national College Board AP Biology Exam. *This course has a summer assignment that is required prior to the first day of school.*

S716 CHEMISTRY*

Grade: 11,12 Length: Year Credit: 1.0

S716S CHEMISTRY*

Grade: 10 Length: Year Credit: 1.0

Prerequisite: Strongly recommend *Algebra II*

This introductory chemistry course includes concepts such as atomic structure, bonding, reactions, acids, bases and stoichiometry. Real life applications are incorporated into the course. Inquiry-based labs will be included with each unit requiring students to strictly follow all safety procedures.

S721 ENVIRONMENTAL BIOLOGY

Grade: 10,11,12 Length: Year Credit: 1.0

Prerequisite: "B-" or higher in *Biology*

Get to know what lives around us in the outdoors. Study the environment by investigating how nature works and how living and nonliving things are interconnected. You will gain an understanding of ecological concepts and principles and learn to analyze the relationships between population, natural resources, animals, plants and human activities. We will focus on local lakes, rivers, and forests. You will have the opportunity to be outside and participate in at least one field trip. This course will also introduce you to the wide variety of career opportunities related to environmental sciences.

S723 ANATOMY & PHYSIOLOGY**Grade: 10,11,12 Length: Year Credit: 1.0****Prerequisite: "B-" or higher in *Biology***

This course goes through the anatomy and physiology of organ systems. Dissections are a requirement for this class. Dissections may include: cat, rat, deer heart, sheep's brain and eyes.

S729 SCIENCE FOR INVENTORS**Grade: 10,11,12 Length: Year Credit: 1.0**

Science for Inventors is an inquiry-oriented course in which students will be expected to research, design, and create products to address global problems and societal needs. Students will use engineering techniques and technology applications to address real-world problems. Students will also have an opportunity to choose projects that fit their interests. Technology such as 3D printers, small electronics, computers, virtual reality, and projection lasers are used. Students will utilize game-like learning and must think outside of the box and troubleshoot new skills.

S724 ADVANCED PLACEMENT CHEMISTRY***Grade: 11,12 Length: Year Credit: 1.0****Prerequisite: "B+" or higher in *Chemistry and Algebra II*****Students are required to enroll in *Advanced Placement Chemistry Lab (S724L)***

This is a second year Chemistry course which builds on information from first year general Chemistry. Topics covered include kinetics, stoichiometry, gas laws, thermochemistry, reaction mechanisms, equilibrium, and electrochemistry. A strong math background is needed. Labs will be included with most topics and students will be required to maintain a lab notebook. College credit may be earned after successful completion of the national College Board AP Chemistry Exam.

This course has a summer assignment that is required prior to the first day of school.

S724L ADVANCED PLACEMENT CHEMISTRY LAB**Grade: 11,12 Length: Year Credit: 1.0****Concurrent enrollment in *Advanced Placement Chemistry (S724)* is required**

For students taking Advanced Placement Chemistry (S724), this course is required due to the amount of content and laboratory experience necessary to prepare students for the national exam in May. All grading and assessments will be calculated under the S724 AP Chemistry course. The lab section will be graded as pass/fail.

S726 PHYSICS***Grade: 11,12 Length: Year Credit: 1.0****Prerequisite: B+ or better in *Geometry or Geometry in Construction. Strongly recommend Algebra II***

Physics will be offered every other year, in school years that begin in an odd year and end in an even year.

This course is designed to provide students with a conceptual understanding of various topics in physics along with the ability to manipulate mathematical models that describe the physical world. Topics include motion, forces, momentum, energy, waves (sound and light), electricity, the technological applications of these topics. Projects, hands-on activities, discussions, and assignments are used to reinforce concepts while allowing students to focus on individual areas of interest as often as possible.

S728 ADVANCED PLACEMENT PHYSICS***Grade: 11, 12 Length: Year Credit: 1.0****Prerequisite: "B+" or higher in *Chemistry and Algebra II***

AP Physics will be offered every other year, in school years that begin in an even year and end in an odd year.

This course has been accepted by the College Board as an approved Advanced Placement Physics 1 course. This class is designed to be a first year class for students with no prior physics experience. The material will be identical to an algebra-based college physics class, and will include an extensive laboratory component. Topics include kinematics, forces, momentum, work, energy, rotation, electricity, and optics. College credits may be earned by successful completion of the national AP Physics 1 exam. **This course has a summer assignment that is required prior to the first day of school.**

*This course will fulfill a science requirement for graduation and will help prepare students for the SAT/MME.

A850 ECONOMICS***Grade: 12****Length: Semester****Credit: 0.5**

Economics is a one semester course that studies how individuals, businesses, governments, and nations answer the question: How will we use our scarce resources? The course introduces economic systems, supply and demand, personal finance, types of businesses and markets, money and banking, measuring the economy, and foreign trade.

A848 AP U.S. GOVERNMENT AND POLITICS***Grade: 12****Length: Year****Credit: 1.0**

Prerequisite: "B" average in *AP U.S. History*, "B+" average in *World History*, or instructor approval

Advanced Placement U.S. Placement and Politics provides a college-level, nonpartisan introduction to key political concepts, institutions, policies, interactions and behaviors that characterize the constitutional system and political culture of the United States. Students will study U.S. foundational documents, Supreme Court decisions, and current events in an engaging way in order to gain an understanding of the relationship and interaction among political institutions, processes, and behaviors. The biggest goal of this class is to equip students to be active and informed members of civil society. Students will have the opportunity to take the AP Exam in May and earn four college credits.

*This course will fulfill a requirement for graduation and will help prepare students for the SAT/MME.

WORLD LANGUAGES

L302 FRENCH I

Grade: 10,11,12

Length: Year

Credit: 1.0

L302F FRENCH I

Grade: 9

Length: Year

Credit: 1.0

French I is an introductory course leading to further study of French. Major emphasis is placed on the communication skills of listening, speaking, reading, and writing. The student's ability to communicate effectively on common everyday topics is emphasized and the class is project-based. Proficiency is enhanced through cultural videos, audio clips, skits, games, songs, and the active participation of the student. Students participate in a local field trip as well as Northern Michigan University's French day in the Spring.

L304 FRENCH II

Grade: 10,11,12

Length: Year

Credit: 1.0

Prerequisite: Students must pass both semesters of *French I* in order to sign up for *French II*

French II offers students a broad range of communication activities using practical and relevant French vocabulary and is project-based. Students build upon the language skills introduced in French I in listening, speaking, reading and writing. Students learn grammar and vocabulary through the use of authentic video, audio and print media. This level allows further exploration of Francophone countries and accents. After successful completion of the first semester, students may be eligible to join the French Honor Society. Students also participate in Northern Michigan University's French Day.

L306 FRENCH III

Grade: 11,12

Length: Year

Credit: 1.0

Prerequisite: A grade of "C" or better in *French II* or approval of instructor

This course emphasizes self-expression and dialogue with others in realistic cultural contexts and is project-based. While the traditional vocabulary, grammar and conversational exercises are still present, these are accompanied by activities that are relevant to student's daily lives and encompass such themes as: global challenges, environmental issues, family and community, esthetics, science and technology, contemporary life and identity. Students participate in Northern Michigan University's French Day in the Spring.

L308 FRENCH IV

Grade: 12

Length: Year

Credit: 1.0

Prerequisite: A grade of "C" or better in *French III* or approval of instructor

French IV represents the culmination of the student's study of French, providing a more in-depth understanding of the structure and practical applications of French as a second language. Projects concerning various aspects of French civilization and culture are also part of the course. Extensive use of authentic resources enable students to better understand the Francophone world and to achieve fluency in listening, speaking, reading and writing. **Class is conducted entirely in French. Students may earn up to 16 college credits via the College Board CLEP test.** Students participate in Northern Michigan University's French Day in the Spring.

L312 SPANISH I

Grade: 10,11,12

Length: Year

Credit: 1.0

L312F SPANISH I

Grade: 9

Length: Year

Credit: 1.0

In Spanish I, students build the language skills, personal attitudes, and cultural insights necessary to experience life "entre culturas," using Spanish to connect with people. Students learn grammar and vocabulary through the use of authentic audio, visual, and print media. In this course students will demonstrate what they can do with the language they have learned through the use of assessments in three modes: interpersonal speaking and writing, interpretive listening and reading, and presentational speaking and writing. Students in Spanish I will learn about the Spanish language through the lens of interculturality, so they can discover appropriate ways to interact with others whose perspectives may be different from their own.

L314 SPANISH II**Grade: 10,11,12****Length: Year****Credit: 1.0****Prerequisite: Students must pass both semesters of *Spanish I***

In Spanish II, students build upon the language skills, personal attitudes, and cultural insights introduced in Spanish I. Students learn grammar and vocabulary through the use of authentic audio, visual, and print media. Grammar, vocabulary, and culture are aligned with the content introduced and practiced in Spanish I. This level of Spanish allows learners to interact with students from different Spanish-speaking countries in culturally responsive ways. In this course students will demonstrate what they can do with the language they have learned through the use of assessments in three modes: interpersonal speaking and writing, interpretive listening and reading, and presentational speaking and writing.

L316 SPANISH III**Grade: 11,12****Length: Year****Credit: 1.0****Prerequisite: A grade of "C" or better in *Spanish II* or approval of instructor**

Spanish III is an engaging program in which students experience life in many countries through first-person accounts, geographic and cultural tours on DVD, and studies in art and history. While the traditional vocabulary, grammar, and conversational lessons and exercises are still present, these are woven into activities that are relevant to students' daily lives such as conversations between teens, pop culture, daily school life, and current issues. All *Spanish III* students participate and compete in Northern Michigan University's annual Spanish Day in the spring.

L320 AP SPANISH LANGUAGE AND CULTURE**Grade: 12****Length: Year****Credit: 1.0****Prerequisite: A grade of "C" or better in *Spanish III* or approval of instructor**

This course provides students with opportunities to demonstrate their proficiency in each of the three modes of communication (Interpersonal, Interpretive, and Presentational) in the Intermediate to Pre-Advanced range as described in the *ACTFL Performance Guidelines for K-12 Learners*. As such, the AP Spanish Language and Culture course has been designed to provide advanced high school students with a rich and rigorous opportunity to study the language and culture of the Spanish speaking world that is approximately equivalent to an upper-intermediate college or university Spanish course. All students participate and compete in Northern Michigan University's annual Spanish Day in the spring. Students are encouraged to take the AP exam in May upon the recommendation of the instructor.

F210 ADVANCED CERAMICS AND SCULPTURE **Grade: 10,11,12** **Length: Year** **Credit: 1.0**
Prerequisite: *Ceramics and Sculpture*

This course is designed for serious students wishing to advance their artistic skills using a variety of 3-D media. Students will learn advanced sculptural techniques, try new media not explored previously, and mix media in experimental ways. Students will create an advanced body of work to include in their portfolio. *This course can be added or dropped at semester. (Offered every other year)*

PERFORMING ARTS

F220 MIXED CHORUS **Grade: 9,10,11,12** **Length: Year** **Credit: 1.0**

This course is designed for both beginning choral students and those with experience, with emphasis on music literacy and proper vocal technique. Singers are encouraged to explore solo and small ensemble singing within the course along with solidifying part singing skills. Performances will occur throughout the school year.

F228 MSHS CHORALE **Grade: 9,10,11,12** **Length: Year** **Credit: 1.0**
Prerequisite: Personal audition and instructor approval

This course is designed for singers of above average ability and experience in choral or instrumental music. Weekly focus on music literacy will be part of the course. Performances will include concerts, festivals, school and civic events. Students will perform a wide variety of accompanied and a cappella music from across the centuries and genres; including sacred, secular, Broadway and pop.

F230 SYMPHONY ORCHESTRA **Grade: 9,10,11,12** **Length: Year** **Credit: 1.0**
Prerequisite: Personal audition; approval of instructor

This class is designed for the most advanced string players. The group studies performance techniques of a variety of orchestral literature and performs at least once per month. Members should have at least four years of playing experience. Although not required, private lessons are recommended. Some after-school rehearsals are needed before concerts.

F238 CONCERT ORCHESTRA **Grade: 9,10,11,12** **Length: Year** **Credit: 1.0**
Prerequisite: Personal audition; approval of instructor

This course provides information on proper playing techniques of stringed instruments as well as performance traditions of a variety of orchestral literature. The group performs (attendance required) approximately five times during the school year. Two years of playing experience is recommended. Some after-school rehearsals are needed before concerts.

F246 NINTH GRADE CONCERT BAND **Grade: 9** **Length: Year** **Credit: 1.0**
Prerequisite: Approval of instructor

This class is designed as an introductory course to high school band, and is open to all 9th grade students with previous experience in band, or 9th grade beginners with instructor approval. Medium-easy to medium difficulty band literature will be studied. Students advance to either the Symphony Band or Wind Ensemble level after successful completion. It is mandatory that each student participate in all concerts and festivals that occur throughout the school year.

F234 SYMPHONY BAND **Grade: 9, 10,11,12** **Length: Year** **Credit: 1.0**
Prerequisite: Approval of instructor

This course is designed as a mid-level music course, and is open to all 10th-12th grade students with previous experience in band. Medium difficulty band literature will be studied. Students advance to either the Symphony Band or Wind Ensemble level after successful completion. It is mandatory that each student participate in all concerts and festivals and ceremonies that occur throughout the school year.

F236 WIND ENSEMBLE**Grade: 9,10,11,12****Length: Year****Credit: 1.0****Prerequisite: Approval of instructor and personal audition**

This course is designed as an advanced-level music course, and is open to all 9th-12th grade students with previous experience in band. Students obtain entry into the Wind Ensemble with a personal audition and/or approval of the instructor. Medium-advanced and college-level band literature will be studied. Some members of Wind Ensemble will have the opportunity to fill brass, woodwind and percussion positions in the MSHS Symphony Orchestra. It is mandatory that each student participate in all concerts and festivals and ceremonies that occur throughout the school year.

JOURNALISM

F262 SCRIPTWRITING**Grade: 11,12****Length: Year****Credit: 1.0**

Script Writing students will create 'video content' that disseminates important information to MSHS students, parents, teachers and community members while also showcasing all the great happenings that take place at our school. Along with managing an educational media platform, students will learn about filming techniques, script writing and filmmaking.

F265 INTRO TO FILM (Previously Lit & Film)**Grade: 11, 12****Length: Year****Credit: 1.0**

Students will analyze, critique, and discuss themes, stylistic approaches, filming techniques, genres and plot elements by interacting with film. Podcasting, script writing and discussion will help students express creative and analytical thinking, writing, and filming. The subject material will revolve around instructor selected narrative and documentary films, television shows, music videos and graphic novels. Students will be expected to view films, create original narratives in the form of scripts, compare/contrast films to different mediums and respond and reflect through in-class discussions.

Along with the analysis of media, students will also create their own short narrative films and/or documentaries. Students will learn about different filming techniques, literary devices and editing strategies. Films will be presented in class and an awards ceremony (The Hoffys) will follow.

APPLIED ARTS

Co14 COMPUTER APPLICATIONS

Grade: 9,10,11,12 Length: Year Credit:1.0

Students will become efficient users of Microsoft Word, Excel, PowerPoint, and Access. Topics will include tables, charts, formulas, formatting, animation, organizing content and databases. This course will prepare students to pass tests for Microsoft Office certification. Employers in today's workforce are testing for these entry level skills and the efficient use of these programs. Students will also do career exploration using an online assessment.

Po21 BUSINESS MANAGEMENT

Grade: 9,10,11,12 Length: Year Credit: 1.0

Essential business procedures and employment skills are acquired in this course. Students will explore entrepreneurship, management and marketing, and various business laws and regulations through individual and group activities, class discussion and hands-on experience. Students will go through the beginning stages of starting a business of their choosing. Industry recognized certifications can be earned at the completion of each semester. Anyone interested in business should take this class to get an overall look at what opportunities there are in the business field and the many different paths that can be taken.

Po14 ACCOUNTING I

Grade: 10, 11, 12 Length: Year Credit: 1.0

This year-long course will cover basic accounting principles, concepts, and procedures. Students will perform accounting tasks for a sole proprietorship, partnership and corporation. Students will use computerized accounting skills to enter, analyze and interpret financial data. Any student interested in a career in business or business ownership should seriously consider this class. This course will meet the requirements for a fourth-year math credit.

Po22 MARKETING

Grade: 10,11,12 Length: Year Credit: 1.0

Marketing is the foundational course for all pathways in Marketing Education. This course addresses all the ways in which marketing satisfies consumer and business needs for products and services. Students develop an understanding of the functions of marketing and how these affect all businesses. Students will be introduced to basic marketing concepts and the role of marketing in our economy. Through our student designed school store, the Wake U.P. Coffee Shop; students also develop skills in applying economic concepts to marketing, distribution and logistics, marketing information management, finance in marketing, product/service planning, pricing mixes, promotional strategies and personal selling.

Poo8 BUSINESS FINANCE

Grade: 10,11,12 Length: Semester Credit: 0.5

Students will explore financial exchanges, fundamental economic and accounting concepts, and financial goals for both business and personal finance. In-depth coverage of various loans, interest, credit, and sound financial planning will help students become responsible consumers and money managers. This course will meet the requirements for a fourth-year math credit.

Co15 INTRODUCTION TO CYBERSECURITY

Grade: 9 Length: Semester Credit: 0.5

Introduction to Cybersecurity provides students with a basic understanding of the principles of data and technology that frame and define cybersecurity. Students will gain insight into the importance of cybersecurity and the integral role of cybersecurity professionals. Topics include digital citizenship, cyber hygiene, the basics of cryptography, software security, networking fundamentals and basic system administration.

Co20 DIGITAL DESIGN

Grade: 9,10,11,12 Length: Year Credit: 1.0

Students will use the latest computer design programs to create interactive graphics, logos, designs for our school store and logos for events/organizations. Adobe Illustrator, Dreamweaver, Animate, Photoshop and Procreate on the iPad are used to develop animations and graphics. The final project is a well-designed and detailed web page which the students may post on the Internet. A focus of this course is on effective teamwork and project management skills.

INDUSTRIAL ARTS

P462 WOOD TECHNOLOGY **Grade: 9,10,11,12** **Length: Year** **Credit: 1.0**

Students have the opportunity to use power tools and equipment to design and make projects individually and as a total class (manufacturing). Students will learn how technology and environmental concerns affect the wood industry. Students will also learn to design and produce projects on the computer-aided ShopBot and laser engraver.

P466 GEOMETRY IN CONSTRUCTION APPLIED ARTS **Grade: 9, 10** **Length: Year** **Credit: 1.0**

Prerequisite for 10th graders: Successful completion of *Algebra I*

Prerequisite for 9th graders: "B" average or better in *Algebra I* and recommendation of 8th grade math teacher.

Concurrent enrollment in Geometry in Construction Math (M511) is required

Geometry in Construction is a nationally recognized program that combines the academics of a traditional geometry course while applying those geometric concepts with the building trade's area. The class is designed for ALL abilities. Annually, students in this class will learn the same academically rigorous math as students in regular geometry while building a multitude of projects in the woodshop. The class instructors show students exactly how geometry is useful beyond the classroom. This class is a 2-hour class; therefore completion of this class will count for 1 math credit and 1 applied arts elective credit.

P468 BUILDING CONSTRUCTION AND REMODELING **Grade: 11,12** **Length: Year** **Credit: 2.0**

Prerequisite: *Wood Technology* or approval of instructor

This class is structured for students with interests in building construction and maintenance of buildings. Students will have hands-on experiences, reinforcing related mathematics and science, technical skills, problem solving, and occupational safety. The student will learn necessary skills and related technical information for entry into related occupational fields, or for continued education at the post-secondary level.

P474 AUTOMOTIVE TECHNOLOGY **Grade: 11,12** **Length: Year** **Credit: 2.0**

Prerequisite: Successful completion of at least one full-year Industrial Arts class with C+ or better average

Designed to assist the students in the introduction and exploration of the automobile and its components through the study of automotive theory, demonstration of tools and equipment, and experience working on automobiles. Emphasis will be placed on safety, proper tool use, braking systems, electronics and electrical systems, parts and service orders, and on-line technology. With the successful completion of the program, students able to pass the ASE exam will receive credit for Brakes and Electrical at Northern Michigan University and Bay de Noc College. Automotive technology fulfills the Senior year math elective graduation requirement.

P476 METALS TECHNOLOGY I & II **Grade: 9,10,11,12** **Length: Year** **Credit: 1.0**

This course is an overview of machining, welding, and metal fabrication. In this course, students will work to understand use and safety precautions of hand tools, power hand tools, oxy/acetylene welding equipment, arc welding equipment, and station machinery. This class is a balance of introductory shop coursework and assigned shop projects with an emphasis on student proposed projects for the second half of the school year. This course is intended for students interested in career fields such as welding, machining, CADD, construction, metal casting/foundry industry, metal fabrication, automotive, HVAC, and industrial maintenance. Students will also have opportunities to learn design and manufacturing skills through projects produced on the computer aided PlasmaCAM and Industrial Art Department 3D printer.

P478 METALS TECHNOLOGY III & IV **Grade: 10,11,12** **Length: Year** **Credit: 1.0**

Prerequisite: *Metals Technology I & II*

This course is proposed to be an advanced class intended to reintroduce and reinforce many of the principles of welding and metal fabrication processes covered in Metals I & II. The habits of safe practices while in the shop are of the highest importance. Along with safe work habits, daily participation points and proposed classroom projects serve as a majority of a student's overall grade for the course. Students interested in industrial related career opportunities and/or additional educational programs such as Welding Occupations and Technical Middle College should consider enrolling in Metals III & IV. Students will also have opportunities to learn additional design and manufacturing skills through projects produced on the computer aided PlasmaCAM and Industrial Art Department's 3D printer.

PHYSICAL EDUCATION

H602 LIFETIME HEALTH

Grade: 9,10,11,12 Length: Semester Credit: 0.5

This semester course will cover the following Michigan Merit Curriculum Strands: 1) Nutrition and Physical Activity; 2) Alcohol, Tobacco, and Other Drugs; 3) Safety; 4) Social and Emotional Health; 5) Personal Health and Wellness; 6) HIV Prevention; and 7) Sexuality Education. An emphasis will be placed on developing lifetime knowledge and skill in the area of health education.

G604 LIFETIME FITNESS AND SPORT

Grade: 9,10,11,12 Length: Semester Credit: 0.5

This semester course is structured to foster and develop: 1) competence in selected motor skills; 2) assess, achieve, and maintain physical fitness; 3) apply cognitive concepts in making wise lifestyle choices; and 4) exhibit appropriate personal/social character traits while participating in physical activity. Course activities will cover: fitness development/individual, dual, and team sports/rhythmic activities/outdoor pursuits. Grading will be based on daily participation, cooperation, honest effort, class work, and heart rate monitor assessments.

G020 MAX SPORT

Grade: 10,11,12 Length: Semester Credit: 0.5

Prerequisite: Completion of *Lifetime Fitness and Sport*

Max sport is a one semester physical education course that is designed for the highly motivated student. Its purpose is to fully develop skills in a variety of team and individual sports. Daily participation in these sports will also enhance personal fitness. Students will gain knowledge and confidence to participate in the sports and activities offered with the anticipation it will support their lifetime health. This course will meet in the gymnasium or outdoors. Grading will be based on daily participation, effort, and consideration for others.

G021 MAX FITNESS

Grade: 10,11,12 Length: Semester Credit: 0.5

Prerequisite: Completion of *Lifetime Fitness and Sport*

Max fitness is a one semester physical education course that is designed for the highly motivated student. Its purpose is to fully develop and enhance individual fitness levels. Students will gain knowledge, ability, and confidence to carry out an effective work-out that will improve cardiovascular endurance, muscular strength, muscular endurance, flexibility, and body composition. This course will meet in the weight room and fitness center. Grading will be based on daily participation, effort, and consideration for others.

G612 AQUATICS

Grade: 9,10,11,12 Length: Semester Credit: 0.5

The semester course consists of three units: 1) Swimming strokes and technique: students learn the six basic swimming strokes and their uses; 2) Water safety: basic diving, safe water entry techniques, use of personal flotation devices, and resuscitation; 3) Recreational fitness activities: water polo, synchronized swimming, and creative water games. Grade will be based on participation, cooperation, and skill tests.

GENERAL STUDIES

1ST SEMESTER:

T15210 LEARNING CENTER	Grade: 10	Length: Semester	Credit: 0.5
T15211 LEARNING CENTER	Grade: 11	Length: Semester	Credit: 0.5
T15212 LEARNING CENTER	Grade: 12	Length: Semester	Credit: 0.5

2ND SEMESTER:

T15310 LEARNING CENTER	Grade: 10	Length: Semester	Credit: 0.5
T15311 LEARNING CENTER	Grade: 11	Length: Semester	Credit: 0.5
T15312 LEARNING CENTER	Grade: 12	Length: Semester	Credit: 0.5

The Learning Center is an elective class that provides students the necessary support to be successful in their academics. Grades are not only based on success in the soft skills (attendance, punctuality, effort and time management), but also on productive collaboration with peers and success in the academic areas.

T205 FRESHMAN SEMINAR

Grade: 9 Length: Year Credit: 0.5

The purpose of Transitions is to promote educational independence and success, develop interpersonal skills, and to challenge students to envision and plan for their future. Topics covered include study skills, career planning, budgets, personal finance, goal setting, job applications, and post-secondary education goals.

T210 LINKS: PEER TO PEER

Grade: 10, 11, 12 Length: Year Credit: 1.0

This opportunity is designed for students interested in learning about students with diverse needs and applying knowledge while mentoring individual students within our school. Students will work together in an integrated, positive fashion to promote socialization, independence, friendship, and peer-to-peer support. Students interested in participating in this course will develop leadership skills, compassion, and knowledge about working with individuals with diverse needs. Potential activities may include: attending general or special education classes with an identified peer, attending LINKS scheduled meetings, 1:1 meetings with a LINKS coordinator, and appropriate training education sessions with LINKS coordinators. **Preference for placement in course will start with the seniors.*

SPECIAL EDUCATION

Students are selected for this program through parent, teacher, counselor referrals, screening by specific tests, and an Individualized Education Planning Team (IEPT). Most required courses are offered. **Only students who are currently enrolled in the Special Education Program may sign up for the following classes.**

993 SUPPORT STUDY 9	Grade: 9	Length: Year	Credit: 1.0
995 SUPPORT STUDY 10	Grade: 10	Length: Year	Credit: 1.0
996 SUPPORT STUDY 11	Grade: 11	Length: Year	Credit: 1.0
997 SUPPORT STUDY 12	Grade: 12	Length: Year	Credit: 1.0

Prerequisite: Must have a current IEP.

This elective class is designed to help students achieve school success. Students take this class to receive assistance from a peer tutor/mentor, special education teacher, and aide. Requirements include using an assignment book and using the hour productively on homework and studying. Students will also participate in class activities that teach academic, personal, social and study skills.

M923A PRE-ALGEBRA A

Grade: 9, 10, 11, 12 Length: Year Credit: 1.0

M923B PRE-ALGEBRA B

Grade: 9, 10, 11, 12 Length: Year Credit: 1.0

Prerequisite: Must have a current IEP.

CAREER & TECHNICAL EDUCATION (CTE)

- **The following courses require an application, which is available in the Guidance Office.**
- **Students should sign up for seven credits of regular courses. If accepted into one of these programs, the student's schedule will be adjusted.**
- **Classes will meet five days each week.**

HOSPITALITY & CULINARY ARTS

Grade: 11,12

Length: Year

Credit: 2.0

This Culinary/Hospitality high school course offered at the NMU Jacobetti Center will introduce students to skills and careers in the diverse hospitality industry. The course will cover guest services, culinary arts, baking, sanitation, applied math/finance and safety taught in the lab (40%) and lecture (60%) learning experiences. Students will participate in catering and cafeteria operations taught in culinary arts and baking. Students can earn up to 10 NMU credits based on their course performance and faculty recommendations.

WELDING OCCUPATIONS

Grade: 11,12

Length: Year

Credit: 2.0

Prerequisites: *Metals I & II and Metals III & IV*

This course teaches the basic types of metal cutting, brazing, and welding techniques. Emphasis is placed on welding in various positions. Students will be prepared for entry level jobs in metal fabrication, maintenance, or construction fields. Upon successful completion of this course to the NMU instructor's satisfaction, students will receive seven credits in NMU's welding program.

AUTOMOTIVE SERVICE

Grade: 11,12

Length: Year

Credit: 2.0

Students in this program gain an overall technical foundation of theory and practical applications in engine repair, automatic transmissions, chassis systems, power trains, vehicle electrical systems, fuel and ignition systems and computer control systems. State certification tests are offered at the end of each semester. Students can earn up to 16 college credits while in high school.

MICHIGAN VIRTUAL ONLINE COURSES

Online courses offer students a unique learning opportunity that may or may not suit a student's learning style. Success in an online course requires a student to be independent, self-motivated, and able to manage his or her time effectively. An adult mentor will proctor the class, tests, and exams at MSHS but is not available for tutoring in the course.

Students may sign up for no more than two online courses per semester. Academic online courses are weighted in the academic GPA and rank, and overall GPA. Non-academic courses are only figured into the overall GPA. For a list of available online courses through Michigan Virtual University please visit www.mivhs.org.

Please see your School Counselor for more information and to get an online course application.

MARQUETTE-ALGER TECHNICAL MIDDLE COLLEGE

Marquette-Alger Technical Middle College (MATMC) is a tuition free program that enables students to earn a high school diploma and a significant number of college credits toward an NMU associate degree or a technical certificate at no cost to the student or their family.

Students apply during the second semester of their sophomore year. They are required to submit an essay, letters of recommendation, and, along with their parents, participate in an interview.

Accepted students enroll in the MATMC prior to their Junior year and take one class at NMU during the second semester of their Junior year. Students take a minimum of one NMU class during each semester of their Senior year. While enrolled, students will participate in Success Seminars and receive support to prepare them academically and socially with the goal that students are ready for the rigor of a full college course load during Grade 13.

The program will consider students who are willing to:

- Commit to a three year program, which includes a mix of high school and college classes in Grades 11 and 12 and a full schedule of college classes at NMU in Grade 13.
- Pursue one of NMU's Associate degrees listed below:

Health Sciences

- Clinical Laboratory Technology
- Nursing
- Radiography
- Surgical Technology

Professional Trades

- Automotive Service Technology
- Building Technology
- Climate Control Technology - HVACR (Heating, Ventilation, Air Conditioning, and Refrigeration)
- Hospitality Management (Culinary Arts)
- Industrial Maintenance Technology (ladder up from welding certificate)
- Electrical Line Technician
- CNC Technology (Machinist)
- Electrical Technology

Information Technology

- Information Assurance and Cyber Defense (Cybersecurity)

More information can be found at <https://www.maresacte.org/marquette-alger-technical-middle-college-matmc>.

DUAL ENROLLMENT

Effective April 1, 1996, Public Act 160 created the Postsecondary Enrollment Options Act, commonly referred to as dual enrollment. This law directs school districts to assist students in paying tuition and fees for courses at Michigan public or private colleges or universities. Students can begin taking dual enrollment classes in 9th grade and to take up to 10 dual enrollment classes in grades 9-12. For more information go to the Michigan Department of Education (MDE) Dual Enrollment Website at www.michigan.gov/dualenrollment and talk with your School Counselor.