

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. For more information 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

Starting with the 2025-2026 school year, students graduating from MSHS must accumulate a minimum of **26.0 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	4.0 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	4.0 credits
Algebra 1	1.0 credit
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	3.0 credits
Earth and Space Science	1.0 credit
Biology	1.0 credit
Chemistry OR Physics	1.0 credit
SOCIAL STUDIES	3.0 credits
10th Grade: U.S. History OR Pre-AP World History & Geography* *Only students who plan to take AP U.S. History in 11th grade need to enroll in Pre-AP World History.	1.0 credit
11th Grade: World History OR AP U.S. History*	1.0 credit
12th Grade: Economics & Government OR AP Government & Economics	1.0 credit / 1.5 credits
WORLD LANGUAGE	2.0 credits
<ul style="list-style-type: none"> > Option #1: Two years of the same World Language > Option #2: One year of World Language + 1.0 extra credit of a Visual, Performing, or Applied Arts 	
VISUAL, PERFORMING OR APPLIED ARTS	1.0 credit
<ul style="list-style-type: none"> > 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 	
SEMINAR	0.5 credit
INTRO TO CYBERSECURITY	0.5 credit
PERSONAL FINANCE (Personal Finance standards will be included within the Economics course and will not earn a separate grade.)	0.5 credit
HEALTH	0.5 credit
PHYSICAL EDUCATION	0.5 credit
Lifetime Fitness and Sport OR Aquatics	0.5 credit
STANDARD ELECTIVES	6.5 credits
Students must take the Michigan Merit Exam (11th Grade)	
TOTAL CREDITS	26.0 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> <ul style="list-style-type: none"> ❖ 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) ❖ Seminar (0.5 credit) ❖ Intro to Cyber (0.5 credit) ❖ World Language ❖ 1 Elective 	<p style="text-align: center;"><u>10TH GRADE</u></p> <ul style="list-style-type: none"> ❖ English 10 ❖ Geometry, Geometry in Construction, Algebra II, or Algebra II Foundations. ❖ US History or Pre-AP World History & Geography (if planning on taking AP US History Junior year) ❖ Biology ❖ 2-3 Electives
<p style="text-align: center;"><u>11TH GRADE</u></p> <ul style="list-style-type: none"> ❖ English 11 or AP Language & Composition ❖ Algebra II or Algebra II Foundations ❖ World History or AP US History ❖ Chemistry or Physics ❖ 3 Electives 	<p style="text-align: center;"><u>12TH GRADE</u></p> <ul style="list-style-type: none"> ❖ English 12 or AP Literature & Composition ❖ Senior Math (1.0 credit) ❖ Government/Economics or AP Government & Economics ❖ 4 Electives

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* 3-3.5 credits		US History or Pre-AP World History & Geography (if planning on taking AP US History)	World History or AP US History	Government & Economics or AP Government & Economics (1.5 credits)
Seminar 0.5 credit	Seminar			
Intro to Cybersecurity 0.5 credit	Intro to Cybersecurity			
Personal Finance 0.5 credit				0.5 credit earned through taking Economics
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, AP Pre-Calculus, or AP Statistics	AP Calculus or AP Statistics

SENIOR COURSES

Course Key	Course Name	S/Y	Credit
ENGLISH			
E410	12th Grade English	Y	1.0
E420	AP Literature & Composition	Y	1.0
E412	Good Books	Y	1.0
E413	Journalism	Y	1.0
E414	Introduction to Poetry	Y	1.0

MATH			
M520	Algebra II	Y	1.0
M522	Algebra II Foundations	Y	1.0
M524	Pre-Calculus	Y	1.0
M525	AP Pre-Calculus	Y	1.0
M528	AP Calculus A/B	Y	1.0
M520	AP Statistics	Y	1.0

SCIENCE			
S706	Astronomy	Y	1.0
S712	AP Biology	Y	1.0
S716	Chemistry +	Y	1.0
S721	Environmental Biology	Y	1.0
S723	Anatomy & Physiology	Y	1.0
S724 S724L	AP Chemistry + AP Chemistry Lab	Y	2.0
S726	Physics +	Y	1.0
S728	AP Physics +	Y	1.0

SOCIAL STUDIES			
A844	U.S. Government	S	0.5
A850	Economics/ Personal Finance	S	1.0
A848	AP Government AND	Y	1.0
A850	Economics/Personal Finance	S	1.0
A852	Psychology: Mind, Brain & Behavior	S	0.5
A853	Psychology: Special Topics	S	0.5

WORLD LANGUAGE			
L302	French I	Y	1.0
L304	French II	Y	1.0
L306	French III	Y	1.0
L308	French IV	Y	1.0
L312	Spanish I	Y	1.0
L314	Spanish II	Y	1.0
L316	Spanish III	Y	1.0
L320	AP Spanish	Y	1.0

Course Key	Course Name	S/Y	Credit
VISUAL ARTS			
F203	Design	S	0.5
F204	Drawing & Composition	S	0.5
F205	Ceramics & Sculpture	S	0.5
F206	Painting	S	0.5
F207	Media Fusion	S	0.5
F209	Advanced Drawing & Painting	Y	1.0
F210	Advanced Ceramics	Y	1.0
F266	Photography	Y	1.0

PERFORMING ARTS			
F220	Mixed Chorus	Y	1.0
F228	MSHS Chorale	Y	1.0
F230	Symphony Orchestra *	Y	1.0
F238	Concert Orchestra *	Y	1.0
F234	Symphony Band *	Y	1.0
F236	Wind Ensemble *	Y	1.0

MEDIA ARTS			
F262	Scriptwriting	Y	1.0
F265	Intro to Film	Y	1.0

APPLIED ARTS			
C014	Computer Applications	Y	1.0
P021	Business Management	Y	1.0
P022	Marketing	Y	1.0
P008	Business Finance	S	0.5
C020	Digital Design	Y	1.0
C025	Advanced Web Design	Y	1.0
C030	AP Computer Science A **	Y	1.0
C256	Graphic Design - Yearbook	Y	1.0
P014	Accounting +	Y	1.0

CONSUMER & LIFE STUDIES			
P040	Cooking & Nutrition	S	0.5
P045	Cultural Cuisine	S	0.5

Course Key	Course Name	S/Y	Credit
TECHNICAL EDUCATION			
P462	Wood Technology	Y	1.0
P468	Building Construction & Remodel +	Y	2.0
P474	Automotive Technology +	Y	2.0
P476	Metals Technology I & II	Y	1.0
P478	Metals Technology III & IV	Y	1.0

PHYSICAL EDUCATION			
H602	Lifetime Health	S	0.5
G604	Lifetime Fitness & Sports	S	0.5
G605	Active Performance	S	0.5
G020	Max Sport	S	0.5
G021	Max Fitness	S	0.5
G612	Aquatics	S	0.5

GENERAL STUDIES			
T15212	Learning Center (Sem 1)	S	0.5
T15312	Learning Center (Sem 2)	S	0.5
T210	Links: Peer to Peer	Y	1.0

SPECIAL EDUCATION			
997	Support Study	Y	1.0

WORK BASED PROGRAMS			
966	Internship Program **	Y	2.0
P934	Health Occupations +	Y	2.0

CAREER & TECHNICAL EDUCATION			
	Welding Occupations **+	Y	2.0
	Hospitality & Culinary Arts **+	Y	2.0
	Automotive Technician **+	Y	2.0

ONLINE COURSES			
	See michiganvirtual.org		

* Must have instructor approval to take this class

** Application must be completed

+ Qualifies for a senior math credit

Y = Year

S = Semester

JUNIOR COURSES

Course Key	Course Name	S/Y	Credit
ENGLISH			
E310	11th Grade English	Y	1.0
E415	AP Language & Composition	Y	1.0
E412	Good Books	Y	1.0
E413	Journalism	Y	1.0
E414	Introduction to Poetry	Y	1.0

MATH			
M520	Algebra II	Y	1.0
M522	Algebra II Foundations	Y	1.0
M524	Pre-Calculus	Y	1.0
M525	AP Pre-Calculus	Y	1.0
M520	AP Statistics	Y	1.0

SCIENCE			
S706	Astronomy	Y	1.0
S712	AP Biology	Y	1.0
S716	Chemistry	Y	1.0
S721	Environmental Biology	Y	1.0
S723	Anatomy & Physiology	Y	1.0
S724 S724L	AP Chemistry AP Chemistry Lab	Y	2.0
S726	Physics	Y	1.0
S728	AP Physics	Y	1.0

SOCIAL STUDIES			
A836	AP US History	Y	1.0
A840	World History	Y	1.0
A852	Psychology: Mind, Brain & Behavior	S	0.5
A853	Psychology: Special Topics	S	0.5

WORLD LANGUAGE			
L302	French I	Y	1.0
L304	French II	Y	1.0
L306	French III	Y	1.0
L312	Spanish I	Y	1.0
L314	Spanish II	Y	1.0
L316	Spanish III	Y	1.0

Course Key	Course Name	S/Y	Credit
VISUAL ARTS			
F203	Design	S	0.5
F204	Drawing & Composition	S	0.5
F205	Ceramics & Sculpture	S	0.5
F206	Painting	S	0.5
F207	Media Fusion	S	0.5
F209	Advanced Drawing & Painting	Y	1.0
F210	Advanced Ceramics	Y	1.0
F266	Photography	Y	1.0

PERFORMING ARTS			
F220	Mixed Chorus	Y	1.0
F228	MSHS Chorale	Y	1.0
F230	Symphony Orchestra *	Y	1.0
F238	Concert Orchestra *	Y	1.0
F234	Symphony Band *	Y	1.0
F236	Wind Ensemble *	Y	1.0

MEDIA ARTS			
F262	Scriptwriting	Y	1.0
F265	Intro to Film	Y	1.0

APPLIED ARTS			
C014	Computer Applications	Y	1.0
P021	Business Management	Y	1.0
P022	Marketing	Y	1.0
P008	Business Finance	S	0.5
C020	Digital Design	Y	1.0
C025	Advanced Web Design	Y	1.0
C030	AP Computer Science A	Y	1.0
C256	Graphic Design - Yearbook	Y	1.0
P014	Accounting	Y	1.0

CONSUMER & LIFE STUDIES			
P040	Cooking & Nutrition	S	0.5
P045	Cultural Cuisine	S	0.5

Course Key	Course Name	S/Y	Credit
TECHNICAL EDUCATION			
P462	Wood Technology	Y	1.0
P468	Building Construction & Remodel	Y	2.0
P474	Automotive Technology	Y	2.0
P476	Metals Technology I & II	Y	1.0
P478	Metals Technology III & IV	Y	1.0

PHYSICAL EDUCATION			
H602	Lifetime Health	S	0.5
G604	Lifetime Fitness & Sports	S	0.5
G605	Active Performance	S	0.5
G020	Max Sport	S	0.5
G021	Max Fitness	S	0.5
G612	Aquatics	S	0.5

GENERAL STUDIES			
T15211	Learning Center (Sem 1)	S	0.5
T15311	Learning Center (Sem 2)	S	0.5
T210	Lnks: Peer to Peer	Y	1.0

SPECIAL EDUCATION			
996	Support Study	Y	1.0

CAREER & TECHNICAL EDUCATION			
	Welding Occupations **	Y	2.0
	Hospitality & Culinary Arts **	Y	2.0
	Automotive Technician **	Y	2.0

ONLINE COURSES			
	See michiganvirtual.org		

* Must have instructor approval to take this class

** Application must be completed

Y = Year

S = Semester

SOPHOMORE COURSES

Course Key	Course Name	S/Y	Credit
ENGLISH			
E210	10th Grade English	Y	1.0
E412	Good Books	Y	1.0
E413	Journalism	Y	1.0
E414	Introduction to Poetry	Y	1.0

MATH			
M510	Geometry I	Y	1.0
M511 P466	Geometry in Construction - Math Geometry in Construction - Applied Arts	Y	2.0
M520S	Algebra II	Y	1.0

SCIENCE			
S706	Astronomy	Y	1.0
S710	Biology	Y	1.0
S716S	Chemistry	Y	1.0
S721	Environmental Biology	Y	1.0
S723	Anatomy & Physiology	Y	1.0

SOCIAL STUDIES			
A830	US History	Y	1.0
A840S	Pre-AP World History	Y	1.0

WORLD LANGUAGE			
L302	French I	Y	1.0
L304	French II	Y	1.0
L312	Spanish I	Y	1.0
L314	Spanish II	Y	1.0

Course Key	Course Name	S/Y	Credit
VISUAL ARTS			
F203	Design	S	0.5
F204	Drawing & Composition	S	0.5
F205	Ceramics & Sculpture	S	0.5
F206	Painting	S	0.5
F207	Media Fusion	S	0.5
F209	Advanced Drawing & Painting	Y	1.0
F210	Advanced Ceramics	Y	1.0
F266	Photography	Y	1.0

PERFORMING ARTS			
F220	Mixed Chorus	Y	1.0
F228	MSHS Chorale	Y	1.0
F230	Symphony Orchestra *	Y	1.0
F238	Concert Orchestra *	Y	1.0
F234	Symphony Band *	Y	1.0
F236	Wind Ensemble *	Y	1.0

MEDIA ARTS			
F262	Scriptwriting	Y	1.0

APPLIED ARTS			
C014	Computer Applications	Y	1.0
P021	Business Management	Y	1.0
P022	Marketing	Y	1.0
P008	Business Finance	S	0.5
C020	Digital Design	Y	1.0
C025	Advanced Web Design	Y	1.0
P014	Accounting	Y	1.0

CONSUMER & LIFE STUDIES			
P040	Cooking & Nutrition	S	0.5
P045	Cultural Cuisine	S	0.5

Course Key	Course Name	S/Y	Credit
TECHNICAL EDUCATION			
P462	Wood Technology	Y	1.0
P476	Metals Technology I & II	Y	1.0
P478	Metals Technology III & IV	Y	1.0

PHYSICAL EDUCATION			
H602	Lifetime Health	S	0.5
G604	Lifetime Fitness & Sports	S	0.5
G605	Active Performance	S	0.5
G020	Max Sport	S	0.5
G021	Max Fitness	S	0.5
G612	Aquatics	S	0.5

GENERAL STUDIES			
T15210	Learning Center (Sem 1)	S	0.5
T15310	Learning Center (Sem 2)	S	0.5
T210	Links: Peer to Peer	Y	1.0

SPECIAL EDUCATION			
995	Support Study	Y	1.0

ONLINE COURSES			
	See michiganvirtual.org		

* Must have instructor approval to take this class

Y = Year

S = Semester

FRESHMAN COURSES

Course Key	Course Name	S/Y	Credit
ENGLISH			
E110	9th Grade English	Y	1.0
E412	Good Books	Y	1.0
E413	Journalism	Y	1.0
E414	Introduction to Poetry	Y	1.0

MATH			
M506	Algebra 1	Y	1.0
M510F	Geometry I	Y	1.0
M511 P466	Geometry in Construction - Math Geometry in Construction - Applied Arts	Y	2.0

SCIENCE			
S703	Earth & Space Science	Y	1.0

WORLD LANGUAGE			
L302	French I	Y	1.0
L312	Spanish I	Y	1.0

Course Key	Course Name	S/Y	Credit
VISUAL ARTS			
F203	Design	S	0.5
F204	Drawing & Composition	S	0.5
F205	Ceramics & Sculpture	S	0.5
F206	Painting	S	0.5
F266	Photography	Y	1.0

PERFORMING ARTS			
F220	Mixed Chorus	Y	1.0
F228	MSSH Chorale	Y	1.0
F230	Symphony Orchestra *	Y	1.0
F238	Concert Orchestra *	Y	1.0
F234	Symphony Band *	Y	1.0
F236	Wind Ensemble *	Y	1.0
F246	9th Grade Band	Y	1.0

APPLIED ARTS			
C014	Computer Applications	Y	1.0
P021	Business Management	Y	1.0
C020	Digital Design	Y	1.0
C015	Intro to Cybersecurity	S	0.5

CONSUMER & LIFE STUDIES			
P040	Cooking & Nutrition	S	0.5
P045	Cultural Cuisine	S	0.5

Course Key	Course Name	S/Y	Credit
TECHNICAL EDUCATION			
P462	Wood Technology	Y	1.0
P476	Metals Technology I & II	Y	1.0

PHYSICAL EDUCATION			
H602	Lifetime Health	S	0.5
G604	Lifetime Fitness & Sports	S	0.5
G612	Aquatics	S	0.5

GENERAL STUDIES			
T205	Seminar	S	0.5

SPECIAL EDUCATION			
993	Support Study	Y	1.0

ONLINE COURSES			
	See michiganvirtual.org		

* Must have instructor approval to take this class

Y = Year

S = Semester

ENGLISH

E110	9th GRADE ENGLISH/LANGUAGE ARTS*	Grade: 9	Year	1 credit
E210	10th GRADE ENGLISH/LANGUAGE ARTS*	Grade: 10	Year	1 credit
E310	11TH GRADE ENGLISH/LANGUAGE ARTS*	Grade: 11	Year	1 credit
E410	12TH GRADE ENGLISH/LANGUAGE ARTS*	Grade: 12	Year	1 credit

These courses will follow the goals and standards prescribed for 9th, 10th, 11th, and 12th graders in the Common Core State Standards for English Language Arts & Literature. Students will create argumentative, informative and narrative essays; will speak individually and in collaborative groups in a variety of contexts; will learn analysis through the study of literary and informative texts; and will study standard English grammar and usage when speaking and writing.

E415	AP LANGUAGE AND COMPOSITION*	Grade: 11	Year	1 credit
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- ★ **Prerequisites: B- or better in English 10. Assigned coursework includes a required summer reading, essay and vocabulary assignment which must be completed prior to the first day of class.**

Students should only enroll in this course if they are talented in the Language Arts and are interested in taking a college-level composition class. Students who have received grades of A– or better during 9th and 10th grade English classes should consider enrolling.

This year-long, college-level class prepares students for the AP test offered in May. Successful performance on the test may result in college credit. Students strengthen their awareness of language and sharpen their skills in critical reading, logical thinking, and effective writing. In addition to writing personal essays, analytical and argumentative papers, students study and practice speaking and listening skills. AP English Language and Composition follows the guidelines established by the College Board. Students are encouraged to take the AP test upon completion of the course. A fee is required for AP testing.

E420	AP LITERATURE AND COMPOSITION*	Grade: 12	Year	1 credit
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- ★ **Prerequisites: B- or better in English 11 or AP Language and Composition. Students who enroll in this course are required to complete a summer reading assignment of significant length before the first day of school.**

Students should enroll in this course if they are talented in the Language Arts and are interested in taking a college-level composition class. Students who have received grades of A– or better during their 10th and 11th grade English classes (preferably English Language and Composition) should consider enrolling.

This yearlong, college-level class prepares students for the AP test offered in May. Successful performance on the test may result in college credit. Students strengthen their awareness of language and sharpen their skills in critical reading, logical thinking, and effective writing. The primary focus is on the poem, the short story and the novel. AP English Literature and Composition follows the guidelines established by the College Board. Students are encouraged to take the AP test upon completion of the course. A fee is required for AP testing.

*This course will fulfill an English requirement for graduation.

E412 GOOD BOOKS**Grade: 9, 10, 11, 12 Year 1 credit**

Throughout this course, you will learn about and discuss literature through the study of contemporary works. As in any other twelfth-grade Language Arts class, writing and speaking will be emphasized. Expect to produce oral presentations and write formal and informal writing assignments on a regular basis throughout the year. Exams will involve writing thoughtful, mechanically sound paragraphs and essays about literature. An understanding of basic terms of analysis will be expected as a prerequisite. Due to the mature content, students should be in 11th or 12th grade.

E413 JOURNALISM**Grade: 9, 10, 11, 12 Year 1 credit**

The purpose of this course is to become a powerful communicator through the lens of news reporting in a real school newspaper. Students will explore fundamental principles of journalism while writing engaging works that will be published for their peers and community to read. The course will also explore how to gather and verify information, conduct interviews, and how to write compelling news stories. Students will get hands-on experience in multimedia journalism that is required to create news pieces. In addition to all of these practical skills, the class will spend time analyzing journalistic pieces and understanding the challenges facing journalism in the digital age. A student will finish the class with a high level of skill in practical writing skills for their future.

E414 INTRODUCTION TO POETRY**Grade: 9, 10, 11, 12 Year 1 credit**

Introduction to Poetry is a representative study of poetic forms and poetry from around the world. Through a close examination of the poetry, we will explore the evolution of poetic form, literary movements and the wide range of themes addressed through poetry. As we examine each work, we will be discussing their historical, cultural, and social influences. Additionally, this course will focus on expressive writing in many different forms. We will have the opportunity to explore several different types of poetry and prose styles, as well as responding to literature, art mediums, quotes, and music.

MATHEMATICS

M506 ALGEBRA I*

Grade: 9 Year 1 credit

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 Year 1 credit

★ Prerequisite: Successful completion of *Algebra I*

M510F GEOMETRY I*

Grade: 9 Year 1 credit

★ Prerequisite for 9th graders: "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 Year 1 credit

★ 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 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 Year 1 credit

M520S ALGEBRA II*

Grade: 10 Year 1 credit

★ 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 approve

M522 ALGEBRA II FOUNDATIONS***Grade: 11, 12 Year 1 credit****★ 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.

M524 PRE-CALCULUS***Grade: 11, 12 Year 1 credit****★ Prerequisite: B- or better in 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.

M525 AP PRE-CALCULUS**Grade: 11, 12****Year 1 credit****★ Prerequisite: B- or better in Algebra II**

In this course, students build a deep conceptual understanding of functions through the lens of average rates of change, studying how two quantities change in tandem. They continue to develop function concepts throughout the course with an in-depth study of polynomial, rational, exponential, logarithmic, and trig functions. Covariation, equivalence, and modeling are the three big themes of this course. This course is equivalent to a college level algebra class. This course would also be tailored for students considering AP Calc or Calc I at the college level.

M528 ADVANCED PLACEMENT CALCULUS AB***Grade: 12****Year 1 credit****★ Prerequisite: B- or better in Pre-Calculus or AP Pre-Calculus**

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. The AP College Board sets the standards for this course.

M530 ADVANCED PLACEMENT STATISTICS***Grade: 11, 12 Year 1 credit****★ Prerequisite: B- or better in Algebra II**

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. The AP College Board sets the standards for this course.

*This course will fulfill a math requirement for graduation.

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

AP Calculus

AP Statistics

Accounting

AP Computer Science A

Business Finance (1/2 credit)

Chemistry

AP Chemistry

AP Physics

Physics

Health Occupations

Building Construction and

Remodeling

Automotive Technology

Welding Occupations**

Hospitality & Culinary Arts**

Automotive Technician**

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

SCIENCE

S703 EARTH AND SPACE SCIENCE*

Grade: 9 Year 1 credit

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 Year 1 credit

★ **Prerequisite:** Completion of or concurrent enrollment in *Earth and Space 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 Year 1 credit

★ **Prerequisite:** Completion of or concurrent enrollment in *Earth and Space 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 Year 1 credit

★ **Prerequisite:** B- or better 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 Year 1 credit

S716S CHEMISTRY*

Grade: 10 Year 1 credit

★ **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****Year 1 credit**

★ **Prerequisite: B- or better 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****Year 1 credit**

★ **Prerequisite: B- or better 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.

S724 ADVANCED PLACEMENT CHEMISTRY***Grade: 11,12****Year 1 credit**

★ **Prerequisite: B- or better 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****Year 1 credit**

★ **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 Year 1 credit**

★ **Prerequisite: B+ or better in *Geometry or Geometry in Construction and Algebra 1*. Strongly recommend *Algebra II***

★ **Physics will be offered every 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). 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 Year 1 credit

- ★ **Prerequisite: B+ or higher in *Algebra II* or with instructor approval**
- ★ **AP Physics will be offered every 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, oscillations and fluids. 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.

SOCIAL STUDIES

A830 UNITED STATES HISTORY*

Grade: 10 Year 1 credit

This high-energy course is designed to cover important events that have shaped the United States from 1877 to the present. You will be viewing and interpreting periods in United States history from various perspectives, including historical, geographical, political, economic, and cultural. Together, these perspectives can help you to understand how the past has led to our present and to appreciate your role in shaping our future. Projects are our favorite! They will include a wide range of activities from interviews, simulations, primary document analysis, to multimedia extravaganzas.

A836 ADVANCED PLACEMENT U.S. HISTORY*

Grade: 11,12 Year 1 credit

★ **Prerequisite: B- or better in *Pre-AP World History***

APUSH makes demands on students that are equivalent to those of a college course. The ultimate goal is preparation for the national AP Exam in May when students will have the opportunity to earn eight college credits. Therefore, we have a very rigorous and strict agenda in order to ensure that each student has the knowledge and skills to master that exam. The course is organized chronologically (divided into periods) and focuses on the various themes, and historical thinking skills suggested by the College Board. Over the course of the year, we will bring history to life through lively discussions, simulations/role playing, and persuasive debates.

A840S PRE-AP WORLD HISTORY & GEOGRAPHY*

Grade: 10 Year 1 credit

★ **This class is for Sophomores and is designed as a preparatory class for AP U.S. History.**

Pre-AP World History & Geography takes a global and comparative approach to studying the world and its past to develop greater understanding of the development of worldwide events, processes, and interactions among the world's people, cultures, societies, and the environment. The course will cover the eras from classical republics through nationalism of the 20th century.

A840 WORLD HISTORY*

Grade: 11 Year 1 credit

World History is a required year-long course in the Social Studies curriculum. Michigan's World History and Geography takes a global and comparative approach to studying the world and its past to develop greater understanding of the development of worldwide events, processes, and interactions among the world's people, cultures, societies, and environment. The course will cover eras from the Classical Republics through nationalism of the 20th century.

A852 PSYCHOLOGY: MIND, BRAIN & BEHAVIOR

Grade: 11,12 Semester 0.5 credit

Focuses on the scientific study of the mind and the relationship between human behavior and the brain. Important topics of study include: history and psychological approaches, research methods and how we sense and perceive the world around us.

A853 PSYCHOLOGY: SPECIAL TOPICS**Grade: 11,12 Semester 0.5 credit**

Focuses on specific topics in the field of psychology. Important topics of study include: the nerve, brain and neuroplasticity, brain measurements techniques, attention, motivation and learning, human growth and development, genetics and twin studies, and the power the environment has on personality & learning.

A844 U.S. GOVERNMENT***Grade: 12 Semester 0.5 credit**

U.S. Government is a one semester course that studies how our government works, how the government affects you, and how you can affect the government. The course focuses on modern political systems, the Constitution, civil rights and civil liberties, the powers of the branches of government, elections, political parties and pressure groups.

A850 ECONOMICS*
PERSONAL FINANCE***Grade: 12 Semester 0.5 credit**
0.5 credit

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. This course will now include additional standards in personal finance (outlined by the State of Michigan). The additional required standards will increase the number of credits awarded to the course from 0.5 to 1.0. The additional 0.5 will be pass/fail on the students transcript.

A848 AP U.S. GOVERNMENT AND POLITICS***Grade: 12 Year 1.5 credits**

- ★ **Prerequisite: B- or better in AP U.S. History or World History**
- ★ **Concurrent enrollment in Economics (A850) is required**

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.

WORLD LANGUAGES

L302 FRENCH I

Grade: 9, 10,11,12 Year 1 credit

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 Year 1 credit

★ **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 Year 1 credit

★ **Prerequisite:** 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 Year 1 credit

★ **Prerequisite:** 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: 9, 10,11,12 Year 1 credit**

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 Year 1 credit**

★ **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 Year 1 credit**

★ **Prerequisite: 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 Year 1 credit**

★ **Prerequisite: 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.

VISUAL ARTS

F203 DESIGN

Grade: 9, 10,11,12 Semester 0.5 credit

Design is a basic Art course for students of any ability level. You will learn and improve your drawing and shading skills, how to use color effectively, how to sculpt with clay, and how to start thinking and planning like an artist or designer. This class will give students the knowledge and competency needed to succeed in the more in-depth art courses.

F204 DRAWING AND COMPOSITION

Grade: 9,10,11,12 Semester 0.5 credit

★ **Prerequisite: *Design***

This course is designed for students interested in drawing and who have demonstrated an aptitude in this area. It presents an in-depth study of various drawing techniques in pencil, charcoal, chalk pastel, pen & ink, marker, and colored pencil. Students will become advanced at shading and color application as they learn compositional skills. Several subjects will be explored, with an emphasis on landscape, portraiture, and figure drawing.

F205 CERAMICS AND SCULPTURE

Grade: 9,10,11,12 Semester 0.5 credit

★ **Prerequisite: *Design***

This course introduces students to a wide variety of 3-D media, including wood, wire, origami, soft sculpture, and mosaics with a special emphasis on ceramics. Students will learn slab and coil building techniques with clay, and have the opportunity to use the potter's wheel. Emphasis will be placed on individual design, creativity, and craftsmanship.

F206 PAINTING

Grade: 9,10,11,12 Semester 0.5 credit

★ **Prerequisite: *Design***

This course introduces students to the materials, processes, and techniques used to create paintings. Watercolor, tempera, acrylic, and oils will be explored. Composition, craftsmanship, and color theory will be emphasized by application. Our projects will be largely informed by the styles and subjects of famous painters throughout history, and move you toward greater personal expression and conceptual development.

F207 MEDIA FUSION**Grade: 10,11,12****Semester****0.5 credit****★ Prerequisite: *Design***

Discover new methods of producing and publishing art by using combinations of digital and traditional design processes. We'll use the "Maker Movement" model for creation—learning through self-discovery, driven by individual curiosity, creativity, and choice. Use 3D scanning and printing technology, produce your own books, print T-shirts and posters, turn your drawings into animated .gifs, create and manipulate digital photos and videos, make and design models, wearables, props, jewelry, kinetic art, cards, games, and more! This class is geared toward self-motivated learners that can generate original ideas, collaborate with peers, and confidently tinker to learn new tools and methods of making.

F209 ADVANCED DRAWING AND PAINTING**Grade: 10,11,12****Year****1 credit****★ Prerequisite: *Drawing and Composition or Painting***

This course is designed for serious students wishing to advance their artistic skills and build a portfolio in preparation for college. Students will learn advanced techniques, explore modern and contemporary art styles, and focus on concept and expression as they further develop their personal style. *This course can be added or dropped at semester. (Offered every other year)*

F210 ADVANCED CERAMICS AND SCULPTURE**Grade: 10,11,12****Year****1 credit****★ 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)*

F266 PHOTOGRAPHY**Grade: 9, 10, 11, 12 Year 1 credit**

Photography class would teach students the basics of photography including the exposure triangle, depth of field and contrast, long exposure/astronomical photography, portraiture and more in both 35mm format and digital format. Students will learn how to properly dilute chemicals to develop both film and photos in the darkroom, and how to edit and watermark digital photos using digital programs. The class would require students to work outside of regularly scheduled class time to practice skills by going to district events (e.g. sports, music, theater, art, etc.) and for various class assignments. The overall objectives of the class would be to develop skills for students to be efficient with taking a little extra time to compose great photos with the camera to save time in the editing process, AND to promote themselves and their peers through their work that is shared with the MAPS community.

F234 SYMPHONY BAND**Grade: 9, 10,11,12 Year 1 credit****★ 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 Year 1 credit****★ 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.

MEDIA ARTS

F262 SCRIPTWRITING**Grade: 10, 11,12 Year 1 credit**

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**Grade: 10, 11, 12 Year 1 credit**

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

Year

1 credit

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

Year

1 credit

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

Year

1 credit

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

Year

1 credit

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

Semester

0.5 credit

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.

C015 INTRODUCTION TO CYBERSECURITY**Grade: 9****Semester****0.5 credit**

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.

C020 DIGITAL DESIGN**Grade: 9,10,11,12****Year****1 credit**

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.

C025 ADVANCED WEB DESIGN**Grade: 10, 11,12****Year****1 credit**

★ **Prerequisites:** *Digital Design* is recommended but not required

All students in this course will develop HTML and CSS coding skills which are used in both web design and cybersecurity. The students spend every two weeks mastering these skills and will eventually have the opportunity to earn an industry certification. The students will work on student driven projects which can include learning Adobe Creative Suite Programs, Python, Java, JavaScript or other program languages, Procreate on Ipad Pro, Blender-3D Animation, Unity, developing poster projects for teachers and designing items for our school store.

C030 AP COMPUTER SCIENCE A**Grade: 11,12****Year****1 credit**

★ **Prerequisite:** *Algebra II*

★ **NOTE:** This is a college level class NOT a beginner's or an applications class (such as word processors, spreadsheets, etc.). Students in this class should be familiar with basic computer terms.

Who should take this Class: Traditionally, students with an interest in careers related to: business, engineering, computer science, information technology, bioinformatics, genetics, physics, chemistry, or math should take AP Computer Science. However, in today's world, almost every occupation or endeavor uses some form of computer software including the fine arts.

The course includes a number of individual programming projects assigned for one week each. The time after the AP CS Exam is devoted to a team project and enrichment activities. The course is based on numerous problem solving exercises, labs, and case studies, which require students to design and implement Java classes.

C256 GRAPHIC DESIGN—YEARBOOK**Grade: 11,12****Year****1 credit**

★ **Prerequisite:** "B" average in *English 9 or 10*, or approval of instructor (if enrolling for a second time)

Students will participate in planning, design and layout (creativity) of pages, copywriting, typography, photography, promotion, advertising, and sales of the MSHS yearbook. Average to above average communication, grammar, writing, and computer skills are essential. This course is for the motivated, creative, and reliable student.

CONSUMER AND LIFE STUDIES

P040 COOKING AND NUTRITION

Grade: 9,10,11,12 Semester 0.5 credit

This hands-on class focuses on building essential kitchen skills and basic cooking techniques. Students will learn knife skills, safe food handling, and how to prepare simple delicious recipes. This course emphasizes practical cooking methods and meal planning, providing a strong foundation for students to cook confidently at home and develop lifelong kitchen skills.

P045 CULTURAL CUISINE

Grade: 9, 10, 11, 12 Semester 0.5 credit

This course will cover defining culture and identifying ways food reflects a given culture. Popular dishes will be identified for different countries. Students will analyze the relationship between economic standing and food/culture choices. They will determine ways in which external influences relate to food choices within a given region.

INDUSTRIAL ARTS

P462 WOOD TECHNOLOGY

Grade: 9,10,11,12 Year 1 credit

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 Year 1 credit

- ★ 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 Year 2 credits

★ **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 Year 2 credits

★ **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 Year 1 credit

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 Year 1 credit

★ **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 Semester 0.5 credit

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 Semester 0.5 credit

This semester course is structured to foster and develop an appreciation of lifelong physical activity and sports participation, blending fitness concepts with a variety of individual and team sports that build foundational movement skills and strategies. Students engage in sports and activities to improve both health and skill-related fitness components, sportsmanship, teamwork and leadership. Emphasis is placed on goal-setting, personalized fitness improvement; and strategies for physical, mental and social well-being. Fitness assessments and personalized goals guide the students toward developing active, healthy lifestyles beyond high school within a positive, inclusive environment.

G605 ACTIVE PERFORMANCE

Grade: 10, 11, 12 Semester 0.5 credit

★ Prerequisite: Completion of *Lifetime Fitness and Sport*

Active Performance is an engaging and challenging physical education course designed for students ready to advance their fitness and sports skills beyond the foundational level. This course offers a balance of physical activity and intermediate-level individual and team sports. Aligned with Michigan's physical education standards, students will enhance competency in motor skills, refine game strategies, build fitness knowledge, and acquire high-quality leadership abilities. Through engaging activities, sport-specific drills, game play, and personalized goal-setting, students will push their physical limits in a supportive yet demanding environment, preparing for lifelong active living.

G020 MAX SPORT

Grade: 10,11,12 Semester 0.5 credit

★ 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 Semester 0.5 credit

★ 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****Semester****0.5 credit**

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****Semester****0.5 credit****T15211 LEARNING CENTER****Grade: 11****Semester****0.5 credit****T15212 LEARNING CENTER****Grade: 12****Semester****0.5 credit****2ND SEMESTER:****T15310 LEARNING CENTER****Grade: 10****Semester****0.5 credit****T15311 LEARNING CENTER****Grade: 11****Semester****0.5 credit****T15312 LEARNING CENTER****Grade: 12****Semester****0.5 credit**

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 SEMINAR**Grade: 9****Year****0.5 credit**

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****Year****1 credit**

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). **Only students who are currently enrolled in the Special Education Program and have a current IEP may sign up for the following classes.**

993	SUPPORT STUDY 9	Grade: 9	Year	1 credit
995	SUPPORT STUDY 10	Grade: 10	Year	1 credit
996	SUPPORT STUDY 11	Grade: 11	Year	1 credit
997	SUPPORT STUDY 12	Grade: 12	Year	1 credit

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.

WORK-BASED PROGRAMS

Students at MSHS have an opportunity to experience a work-based position in our school and community. Due to regulations set by members of the Department of Education, Department of Labor and Economic Growth, and the Career and Technical Education staff, students may not exceed taking three (3) periods of the placement for the course listed below. Students who are less than full-time, may not have over half of their school day be comprised of this Experiential Learning Course.

966	INTERNSHIP PROGRAM	Grade: 12	Semester/Year	1-2 credits
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★ **Prerequisite: Excellent attendance, 2.0 minimum G.P.A.**

Internship is a 6-10 hour per week independent study course related to a senior student's career pathway. The amount of high school credit is based on internship time (i.e. one hour per day for one semester equals one-half credit.) The non-paid time spent will be at a local business site where students are trained and supervised by one or more business site employees. Students will be expected to follow both internship and their business site attendance rules and policies which are usually more stringent than general school policies.

Students will be responsible to make their own transportation arrangements to and from their training site. Internship grades are assigned by the internship coordinator and based on a site supervisor evaluation, student work maturity, learning progress and a daily written journal. Individual site supervisors may assign additional projects/papers. Student letter grades are based on individual site supervisor workplace comparisons and expectations and could vary up or down from a student's usual class grades. Prior to the start of an internship, the business, parent, school, and student must all approve the training schedule.

The application process requires completion of an internship application, resume, and an interview with the internship program coordinator. If recommended, students will interview with a business. Most internship students that get to this stage are placed; however, an internship match with a business cannot be guaranteed. If placed, students will be notified prior to the beginning of the school year.

P934 HEALTH OCCUPATIONS PROGRAM**Grade: 12****Year****2 credits**

This course is designed for senior students who wish to explore healthcare careers. The first semester will include an introduction to human anatomy, medical terminology, exposure to basic health care skills, and CPR certification. During the second semester, students participate in clinical rotations at the hospital, med center, dental, veterinary, assisted living, and chiropractic clinics. Hospital rotations include nursing floors, lab, dietetics, and radiology. Students are required to show proof of immunizations (Hepatitis B, dTap, Varicella, MMR, flu shot). Once enrolled in the class, a TB test, criminal background check, and urine drug screen will be required. Enrollment in Anatomy is recommended (but not required).

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 Year****2 credits**

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 Year****2 credits**

- ★ **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 Year****2 credits**

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.

DUAL ENROLLMENT

The Postsecondary Enrollment Options Act 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.

Eligible Students

- Students must be enrolled in at least one high school class.
- Students must meet all university dual enrollment requirements and be granted admission as a dual enrolled student.
- Each college may have a GPA requirement you need to be aware of.

Eligible Courses

- The course is offered at MSHS but is unavailable due to a scheduling conflict.
- The course is offered at MSHS, but has been completed by the student.
- Course(s) or program(s) in career or technical education may be approved.
- Course(s) cannot fall under the following subject categories: hobby, craft, recreational, physical education, theology, divinity, or religious education.
- All dual enrolled courses must be approved by the MSHS Guidance Office and/or Principal.
- Students may not leave an MSHS class early or arrive late to attend a university course.

Dual Enrollment applications can be picked up in the Guidance Office.

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 Science

- Clinical Laboratory Technology
- 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.maresa.org/educational-services/career-college-readiness/marquette-alger-technical-middle-college/>

OR email Erich Ziegler at eziegler@maresa.org