



ONTONAGON AREA SCHOOL

2019-2020

CURRICULUM BOOK

In compliance with Title VI of Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Age Discrimination Act of 1975, the Americans with Disability Act of 1990, and the Elliot-Larsen Civil Rights Act of 1977. It is the policy of the Ontonagon Area School district that no person shall, on the basis of race, color, religion, national origin or ancestry, gender, age, disability, height, weight or marital status be excluded from

Participation in, be denied benefits of, or subjected to, discrimination during any program, activity, service or employment. For information, contact James Bobula (Superintendent/Principal, Civil Rights Coordinator)

at (906)-813-0614 or Ontonagon Area School, 701 Parker Avenue, Ontonagon, MI 49953

TABLE OF CONTENTS

MATH3
ALGEBRA
GEOMETRY
ALGEBRA II
PRECALCULUS AND DISCRETE MATH (P.D.M.)
PERSONAL FINANCE
BUILDING TRADES
WELDING

SOCIALSTUDIES.....4
NINTH GRADE U.S. HISTORY & GEOGRAPHY
U.S. GOVERNMENT /CIVICS
ECONOMICS
WORLD HISORY

ENGLISH LANGUAGE ARTS.....4
GRADE 9
GRADE 10
GRADE 11
GRADE 12
CREATIVE WRITING

WORLD LANGUAGE.....5
SPANISH I
SPANISH II
SPANISH III
SPANISH IV

SCIENCE.....6
PHYSICAL SCIENCE
BIOLOGY I
BIOLOGY II
CHEMISTRY I
CHEMISTRY II
PHYSICS
AGRICULTURE

PHYSICAL EDUCATION.....7

HEALTH.....7

MUSIC.....7
BAND
STRINGS

CAREER TECHNICAL EDUCATION.....7
AGRICULTURE
AGRICULTRUE ONLINE
BUILDING TRADES I
BUILDING TRADES II
BUILDING TRADES III
BUSINESS MANAGEMENT SUPPORT
CERTIFIED NURSING ASSISTANT I AND II
COMPUTER AIDED DRAFTING
HEALTH CAREERS
ROBOTICS
WELDING I, II, III

TABLE OF CONTENTS CONTINUED

WORK BASED LEARNING.....10

SERVICE LEARNING.....10

ONLINE LEARNING.....10

CORRESPONDENCE COURSES/CREDIT RECOVERY13

DISTANT LEARNING.....13

DUAL ENROLLMENT.....13

MICHIGAN MERIT CURRICULUM (MMC).....14

GRADUATION REQUIREMENTS.....15

MATH



ALGEBRA

(2 SEM. – 1 CREDIT)

Algebra is used to describe patterns, work with variables and formulas, solve problems, and graph functions. This course also introduces topics from statistics, geometry and probability.

GEOMETRY

Prerequisite: Algebra

(2 SEM. – 1 CREDIT)

Geometry is the study of shapes and visual patterns. The course work includes work with graphing, measurement and two and three dimensions, logic, area and volume calculations, trigonometry, transformations, and mathematical proofs.

ALGEBRA II

Prerequisite: Geometry

(2 SEM. – 1 CREDIT)

A continued study of Algebra with concepts of Geometry incorporated. This course includes the study of linear and quadratic functions, exponential expressions, logarithms, and trigonometry. Abstract and real world problem solving is part of this course. Use of graphing calculators is an integral part of the course.

PRECALCULUS

(2 SEM. – 1 CREDIT)

Prerequisite: Algebra I, Geometry, and Algebra II

This course is recommended for students who plan to pursue degrees in the sciences, mathematics, engineering fields or any other major which requires calculus. The course primarily focuses on the skills and methods of analytic geometry and trigonometry while investigating further relationships in functions, probability, number theory, limits, and the introduction of derivatives.

PERSONAL FINANCE

(2 SEM. – 1 CREDIT)

This course serves as a senior math elective. Students gather the skills and knowledge needed to manage their finances. Topics covered include checking, savings, accounts, loans, credit, taxes and budget planning. This course provides an exclusive practical background in money management.

BUILDING TRADES

(APPLIED MATH CREDIT)

Seniors may use this cross-walked vocational education class to satisfy the senior math requirement as established by the M.M.C. Basic math skills; Geometry, Algebra, Trigonometry and Measurements will be applied to the construction trade. Focus areas include building layout, form construction, framing, tools of the trade, roofing and finishing.

WELDING

(APPLIED MATH CREDIT)

Seniors may use this cross-walked vocational education class to satisfy the senior math requirement as established by the M.M.C. Basic math skills will be applied to the welding trade.



SOCIAL STUDIES

NINTH GRADE US HISTORY & GEOGRAPHY

(2 SEM. – 1 CREDIT)

This course follows a chronological pattern beginning with a short review of the Civil War and the period of Reconstruction. The growth of the United States industrially and geographically will also be discussed. Major topics include W.W.I, the Depression, W.W. II, and the Cold War of the 1950's. More recent events such as the Vietnam War, involvement in Bosnia and the Middle East, Civil Rights movement and political changes will complete this course.

U.S. GOVERNMENT/CIVICS

(1 SEM. - .5 CREDIT)

U.S. Government has the objective of giving the students a basic understanding of government at the local, state, and national levels. Particular concentration will be given to our national government. The structure, organization, and the basic philosophy and concepts of the U.S. constitution and three branches of government will be included. Also of importance will be the role of state and local government.

ECONOMICS

(1 SEM. - .5 CREDIT)

Economics is designed to give the student a basic understanding of the American economy. To achieve this understanding the student will be presented with theory, principles, and analytical tools necessary to understand our system. A study of comparative economic systems will also be undertaken and opportunities for investigating portions of the economy will be presented.

WORLD HISTORY

(2 SEM. – 1 CREDIT)

World History is designed to provide students with a broad background in the development of civilization around the world. While emphasis is placed on Western Civilization; other areas around the world are covered. Beginning with a brief look at the prehistoric and ancient cultures, the course goes on to deal with the great ancient civilizations of Egypt, Greece and Rome. The Middle Ages and the Renaissance and Reformation era are followed by a discussion of the Industrial Revolution and the rise of Imperialism. The course ends with a study of 20th Century events such as WWI and WWII.

ENGLISH LANGUAGE ARTS



ENGLISH 9

(2 SEM. – 1 CREDIT)

The student will read, interpret, and critically evaluate literature, examining themes, events, and ideals of various cultures. Traditional grammar and usage concepts will be practiced and applied to both written and oral communication. Course will provide

A workshop atmosphere in which students will gain experience in the application of the writing process.

ENGLISH 10

(2 SEM. - 1 CREDIT)

This course is a study of various types of poetry, world literature and drama. It will also acquaint the student with literary terminology. It will help to create an interest in literature and enable the student to read, interpret, and judge for himself. It will also help the student discover the influence of literature upon life. This course also introduces students to expressing their ideas to a group, focusing on research, outlining, and delivery. There will be one formal speech per quarter.

ENGLISH 11

(1 SEM. - .5 CREDIT)

A study of American Literature from the Colonial period to the civil war era, with emphasis on Colonial and Revolutionary periods, and the Abolitionist movement. The course will include works by the authors of the periods, and contemporary writers, and will include outside readings of plays, novels, and nonfiction. The student will get a better understanding of history, and will understand how American ideas and ideals have molded our heritage and culture.

ENGLISH 12

(1 SEM. - .5 CREDIT)

A study of American Literature from the civil war era to the present time. The student will get an understanding of the evolution of American Literature in the past 125 years. The student will see how literature reflects the period in which it is being written; emphasis will be placed on modern fiction. Exploration of regional authors will be included time permitting.

CREATIVE WRITING

(2 SEM. – 1 CREDIT)

Students will work on a writing project each week, reading Teen Ink (a student writing magazine) as they work. The magazine provides inspiration as well as ideas. The types of writing students do are largely self-determined. Some examples of the genres written in Creative Writing are: fiction, movie and music reviews, poetry, expository essays, scripts, interviews and chapters for books.

WORLD LANGUAGE

SPANISH I

(2 SEM. – 1 CREDIT)

This course is open to freshman through seniors. During this course, students will begin to communicate and understand the Spanish Culture. Grammar skills as well as vocabulary will be introduced. Students will learn basic “survival” skills in the target language. Some topics included will be; social pleasantries how to order food in a restaurant, shopping, money exchange, talking about family, school and weather. Communication will take place through written, oral, listening and reading activities. Students will learn to communicate in the present, past and future.

SPANISH II

(2 SEM. – 1 CREDIT)

Prerequisite – Spanish I

The second year of Spanish reviews and extends the ideas of Spanish I. This course incorporates reading, writing, listening, music and conversation while exploring the Hispanic Culture in detail. Students will be required to express themselves in the target language. Students will expand their proficiency in matters related to free time, food, health, shopping, travel and employment. Several new “tenses” will be introduced.

SPANISH III

(2 SEM. – 1 CREDIT)

Prerequisite – Spanish II

This course focuses on improving conversational skills in the target language. Students will initiate and maintain conversations in the target language. Advanced grammar will be covered and students will practice through a variety of reading, writing and communicative activities. Weekly journals will be obligatory and students will be required to speak in the target language.

SPANISH IV

(2 SEM. – 1 CREDIT)

Prerequisite – Spanish III

This class will consist of reading Spanish Literature, improving writing skills through journals, essays and research projects and conversing in the target language. Materials will come from a variety of sources. English will be limited in this class. Some examples of topics include: Spanish Literature, Spanish History, Latin American Literature, Latin American History, Spanish and Latin American Artists and Spanish and Latin American Civilization.



SCIENCE

PHYSICAL SCIENCE

(2 SEM. – 1 CREDIT)

An introduction to the scientific method and lab science. Emphasis is on hands on, student driven learning.

BIOLOGY I

(2 SEM. – 1 CREDIT)

Biology is the study of living things – both plants (botany) and animals (zoology). It deals with the major groups of plants and animals from simple one-celled algae or protozoa to the most complex forms of life, including man. In biology, the student studies the physical makeup, the principles that govern life, and the relation of living things to their surroundings and to each other, their history and changes.

BIOLOGY II

(2 SEM. 1 CREDIT)

Prerequisite: Biology I

Special emphasis is placed on man, his physical makeup, functions, diseases and their prevention, and hereditary patterns. Laboratory exercises are designed to illustrate some of the many vital physiological functions of the human organism. The course is particularly important to those wishing to pursue a career in health care, physical education, beauty culture, and other professions in which an understanding of the human body is essential.

CHEMISTRY I

(2 SEM. – 1 CREDIT)

The course covers the composition of matter in the world. Elements and compounds and their interaction are covered in detail. Laboratory techniques, research skills and scientific reasoning are part of the course content. This course provides a foundation in chemistry for all college bound students.

CHEMISTRY II

(2 SEM. – 1 CREDIT)

Prerequisite: Chemistry I

The second year of chemistry reviews and extends the ideas from Chemistry I. Topics covered in this class are designed to prepare students for college chemistry. Students who plan to major in field of science, health or engineering are encouraged to enroll.

PHYSICS

(2 SEM. – 1 CREDIT)

Prerequisite: Algebra I and

Geometry

Physics is a course designed to help a student gain an understanding of the nature of the physical universe. Units on force, motion, heat, electricity, and light are included in this course. Emphasis is placed on laboratory experience.

AGRICULTURE

(SCIENCE CREDIT)

(2 SEM. 1 CREDIT)

Students may use this cross-walked vocational education class to satisfy a science elective.



PHYSICAL EDUCATION

PHYSICAL EDUCATION

(1 SEM. - .5 CREDIT)

Physical Education will cover the fundamentals of team and individual sports. Instruction is given in a variety of team sports such as volleyball, soccer, speed away and basketball and in individual sports such as track and field, tennis and floor hockey. Emphasis will be placed on the importance of exercise for life.



HEALTH

HEALTH

(1 SEM. - .5 CREDIT)

Accepted practices in personal hygiene, nutrition, safety and self-awareness are discussed. Substance abuse, HIV-Aids, and other current topics relative to a person's mental and/or physical wellness are covered. The various health systems are reviewed as they relate to the well being of the individual.

MUSIC



BAND

(2 SEM. – 1 CREDIT)

Prerequisite: Elementary Band

Junior/Senior High School Band is a continuation of instrumental musical instruction started at the elementary level. New and more difficult musical concepts will be explored through rehearsing and performing. Students will perform in the marching band, pep band, and concert band. Other opportunities for individual musical growth include solo and ensemble festival, as well as other volunteer performance opportunities. Music theory will also be integrated as opportunities allow (starting at the basic level).

STRINGS

(1 SEMESTER - .5 CREDIT)

This course offers students a general music curriculum (in accordance with state standards), through performance on string instruments.



CAREER TECHNICAL EDUCATION

AGRICULTURE

(2 SEM. – 1 CREDITS)

The program will focus on small-scale, specialty agriculture, along with the many facets of indoor and greenhouse growing. New technologies in horticulture, such as hydroponics, will be part of the curriculum, along with forestry and wildlife management. Students will also get real-world experience in the business and marketing side of agriculture.

AGRICULTURE ONLINE

(1SEM.-.5 CREDITS)

Online agriculture is an Independent Study online class, which introduces students into the diverse world of agriculture and helps them to be prepared for careers in agriculture, food and natural resources. This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices and expectations of the agriculture industry. New technologies in horticulture, such as hydroponics, will be part of the curriculum along with forestry and wildlife management. Students will also get real-world experience in the business and marketing side of agriculture.

BUILDING TRADES I

(2 SEM. – 2 CREDITS)

(2 HOURS)

Units of instruction will cover all phases of work that a person involved with residential house construction should be acquainted with. Emphasis will be placed on the carpentry phase of building as well as blueprint reading, electrical, masonry, interior finishing, framing, roofing, stair construction, safety, and estimating. Heating and ductwork may be included in training.

BUILDING TRADES II

(2 SEM. – 2 CREDITS)

(2 HOURS)

Prerequisite: Building Trades I

Skills learned in B.T. I will be further developed and expanded on in this course. The student will assume a leadership role in helping beginning students in understanding building procedures. Site management and building codes will be a focus.

BUILDING TRADES III

(2 SEM. – 2 CREDITS)

(2 HOURS)

Prerequisite: Building Trades II

The students in this course will take on a leadership role. They will be expected to lead by example and keep projects on schedule. The students will be a part of the planning process as well as over seeing group production. Studying advanced building procedures will also be incorporated into the course.

BUSINESS MANAGEMENT SUPPORT

(2 SEMESTERS)

1 CREDIT (1 HOUR)

2 CREDITS (2 HOURS)

This course is designed to prepare students for employment opportunities in today's rapidly changing business environment. Students will (1) Acquire skills and knowledge of office procedures and equipment, (2) Utilize human relation skills, time management principles, cost-effective techniques, and decision-making skills, (3) Develop personal characteristics, work attitudes, and communication skills essential for success on the job, (4) Understand the interrelatedness of office systems, their procedures, equipment, and workers, and (5) Develop basic Economic and Entrepreneurial knowledge.

BUSINESS MANAGEMENT SUPPORT II

2 SEMESTERS

1 CREDIT (1 HOUR)

2 CREDITS (2 HOURS)

. This course is designed to prepare students for advanced office employment opportunities in today's rapidly changing business environment. The changes in today's office have created a demand for office workers with a broader variety of skills, and awareness of the interrelatedness of office functions, and a knowledge of new procedures and terminology. Students will (1) Build upon skills acquired in Management Support I, (2) Utilize and apply advanced telephone skills, (3) Apply receptionist skill and knowledge, (4) Develop money management techniques, (5) Apply money management techniques, (6) Implement alphabetic and/or numeric filing systems and utilize a variety of mail procedures, and (7) Apply document processing procedures.

BUSINESS MANAGEMENT III

INFORMATION PROCESSING SPECIALIST

2 SEMESTERS

1 CREDIT (1 HOUR)

2 CREDITS (2 HOURS)

The information Processing Specialist job title is designed to provide students with the advanced technical skills required of management support personnel in today's business/office environment. To be successful and

productive, employees in today's business world must not only possess higher level technical/application skills, they must also be capable of the higher level thinking skills required in the design and creation of documents and procedures. In addition to mastering the competencies required in the Office Assistant and the Office Specialist job titles, students will:

1. Apply document creation skills involving database and spreadsheet applications
2. Develop decision making skills in the area of office procedures
3. Apply decision-making skills in record management.

The information Processing Specialist will complete competencies in the following areas: Document Processing, Office Procedures, and Records Management.

CERTIFIED NURSING ASSISTANT

(1 SEM. 1 CREDIT)

The Nursing Assistant program is ideal for students who would like to explore nursing as a possible career and for those who would like to work as a Nursing Assistant. This course will provide training for students to obtain the skills necessary to take the state of Michigan's competency evaluation exam to become a Certified Nursing Assistant (CNA). Upon successful completion of the exam, students will have their name placed on the state registry and will be eligible to work as a Nursing Assistant in hospitals, nursing homes and with health care agencies.

This course is a combination of theory, lab practicum (where students practice skills), and clinical instruction (students do direct patient care under the guidance of their instructor). Students enhance their verbal and written communication skills in a health care environment and learn the practical skills needed to work as a C.N.A.

CERTIFIED NURSING ASSISTANT II

(2 SEM. 2 CREDIT)

Job contracting opportunity in a Healthcare related field. This course is available to students that have successfully completed C.N.A. I

COMPUTER AIDED DRAFTING

(2 SEM. – 2 CREDIT)

This course teaches students the fundamentals of drafting standards. Students will study Mechanical Drafting/manufacturing and Design and will learn basic entry level drafting standards and skills required for that field. Students will gain experience using the software Autodesk while constructing real-world working models. Sketching, geometric construction methods, dimensioning, multi-view drawing layout and much more in taught on the computer.

COMPUTER PROGRAMMING

(1 SEM. - .5 CREDIT)

This course is an Independent Study online course, which provides students with an introduction to computer programming. Students learn current techniques in visual program design and programming methods. Students also learn basic programming algorithms, methods of testing, debugging and documenting computer programs. Students learn how to plan and create their own interactive windows applications. Graphical user interface design skills and object-oriented programming concepts are emphasized throughout this course.

HEALTH CAREERS

(2 SEM. – 1 CREDIT)

Health Careers is an Independent Study online class offered by Health Center 21. It contains more than 1,700 multimedia lessons, quizzes, and projects designed to engage students. Health Careers will give students an opportunity to learn about the different career opportunities in the healthcare field. Health Careers is an interactive e-learning curriculum tailored to health science. The program covers both State and National Standards.

ROBOTICS/PROGRAMMING

(2 SEM. - 2 CREDIT)

This course is based on the ROBOTIC curriculum LEGO MINDSTORMS from the Carnegie Mellon Robotics Academy. The purpose of this course is to introduce students to programming and robotics. By learning the

ROBOTIC programming language students will learn how robotics can be used to solve real world engineering problems.

WELDING

(2 SEM.- 1 CREDIT/1 HOUR) or
(2 SEM. – 2 CREDITS/2 HOURS)

This course provides students with practical experience and instruction in the set up and use of all types of equipment and processes common to the welding trade today. Theory and application of these processes are covered for ferrous and non-ferrous metals in flat, vertical, horizontal, and overhead positions. Fundamentals of welding layout, fabrication, and repair are also covered. Emphasis is placed on all safety procedures typical of the welding trade.

WORK BASED LEARNING

WORK BASED LEARNING

(2 SEM. – 2 CREDITS/2 HOURS) or
(2 SEM. – 1 CREDIT/1 HOUR)

Interested students must apply for this position through the High School Guidance Counselor. Job contracting provides on the job training in areas outside our classroom offerings. Examples would be nursing, dental technician, auto body repair, etc.

SERVICE LEARNING

SERVICE LEARNING CURRICULUM

(1SEM - .5 CREDIT)

Goals of the class:

- Students will gain knowledge and skills by applying them to real problems.
- Students learn about working in groups and taking leadership roles.
- Students will learn the value of helping and caring for others.
- Students will increase their sense of involvement in their school and community.
- Students will help promote school spirit and pride.
- Students will learn to look for needs around schools and communities that they can help with.
- Students will learn the value of reciprocal relationships.

Students will be expected to complete either one large project or two smaller projects a marking period.

All projects will be done in this 4 step progression:

- Step 1. Selecting a project.
- Step 2. Planning the project.
- Step 3. Carrying out the project.
- Step 4. Review and reflection.

Students will be expected to also have some regular duties they help out with around the building.

ONLINE LEARNING

Online learning courses are workbook-based semester courses in subjects offered through Odyssey Ware and Michigan Virtual High School. Online learning enables schools to offer students equal access to diverse courses and helps schools expand curriculum, offer greater flexibility and solutions to accommodate scheduling and learning needs. Online Learning provides cutting-edge learning options that allow students to build technology skills that will help them succeed. OW and MV courses are payable by the school and are free to all students.

CORRESPONDENCE/CREDIT RECOVERY COURSES

Credit Recovery courses are workbook-based semester courses in the core subject areas offered through Keystone Credit Completion. Courses take about six weeks to complete, and are done outside of school, in addition to the student's regular school courses. A Credit/No Credit grade is issued when the school receives notification from Keystone Credit Completion as to whether the student has successfully completed and returned the course. The cost is payable by the student and is non-refundable. Correspondence courses can be done any time of the year, including during the summer.



DISTANT LEARNING

ACCOUNTING I

(1 SEM. .5 CREDIT)

This class is designed to provide students with the basic skills required in the accounting dept. of small businesses. Students will develop skill in starting an accounting system; recording business transactions; accounting procedures for sole proprietorship; partnership; petty cash procedures; payroll procedures; and computerized accounting procedures.

ACCOUNTING II

(1 SEM. - .5 CREDIT)

This class is designed to provide students with the technical and procedural skills required in accounting departments of today's businesses. Students will complete competences in the following area: departmentalized accounting procedures, payroll procedures, decision making skills in budgeting and accounting principles in computerized accounting systems

C.A.D.D.

(2 SEM. - 2 CREDIT)

This program teaches students the basic fundamentals of drafting standards. Students can study either Mechanical Drafting/manufacturing or Architectural Drafting and Design and will learn basic entry level drafting standards and skills required for that field. Sketching, geometric construction methods, dimensioning, multi-view drawing layout and much more is taught on the computer.

ROBOTICS/PROGRAMMING

(2 SEM. - 2 CREDIT)

This course is based on the ROBOTIC curriculum LEGO MINDSTORMS from the Carnegie Mellon Robotics Academy. The purpose of this course is to introduce students to programming and robotics. By learning the ROBOTIC programming language students will learn how robotics can be used to solve real world engineering problems.

DUAL ENROLLMENT

Dual enrollment is when a student enrolls in one or more college courses while still in high school; whether for high school credit, college credit or both.

Effective September 2013, Ontonagon Area School will contribute to the cost of the course based on the state weighted average foundation divided by the number of periods per day and then divided by the semester.

If a student participating in the postsecondary (dual) enrollment program fails to successfully complete an eligible course, the student and his/her parents are responsible for reimbursing the District for such charges incurred by the District for such enrollment. In the event reimbursement is not made in a reasonable period of time, the Superintendent is authorized to file claim against the student and/or his/her parents in Small Claims Court for collection.

MICHIGAN MERIT CURRICULUM (MMC) HIGH SCHOOL GRADUATION REQUIREMENTS

With the passing of House Bills 4465 and 4466 in June 2014, (updated June 2018) Graduation Requirements now include:

MATHEMATICS – 4 Credits	
Michigan Merit Curriculum	Personal Curriculum Options
<p>4 credits of mathematics, including Algebra I (may be granted prior to grade 9) Geometry Algebra II or Algebra II over 2 years for 2 credits Algebra II over 1.5 years for 1.5 credits Completion of a A MDE-approved CTE program such as machining, electronics, construction, welding, engineering, computer science, renewable energy if course includes appropriate embedded content Integrated math course An additional math credit (trigonometry, statistics, pre-calculus, calculus, applied math, accounting, business math, a retake of Algebra II or financial literacy) Students must successfully complete at least on math course during final high school year</p>	<p>3.5 credits of mathematics, including Algebra 1 (may be granted prior to grade 9) Geometry Algebra II may be modified if the student meets one or more of the following: One semester of Algebra II Algebra II over two years for 2 credits MDE-approved CTE program or curriculum that completes the same content as algebra II benchmarks assessed on State HS Assessment One semester of statistics, functions and data analysis or technical mathematics</p> <p>Students must successfully complete at least 1 math credit during his or her final 2 years of high school</p>
ENGLISH LANGUAGE ARTS – 4 Credits	
At least 4 credits of English Language Arts	
SCIENCE – 3 Credits	
At least 3 credits of science, including: Biology Chemistry, physics, anatomy, ag science, or MDE approved program with the same chemistry or physics content One additional science credit or MDE-approved computer Science or CTE program	
SOCIAL SCIENCE 3 Credits	
<p>At least 3 credits in Social Science, including: 1 credit United States history and geography 1 credit in world history and geography .5 credit in economics OR personal economics (financial literacy) .5 credit in civics</p>	<p>At least 2 credits of social science, including .5 credit of civics 1 additional credit in ELA, mathematics, science, a language other than English, or a CTE program</p>
HEALTH & PHYSICAL EDUCATION -1 Credit	
At least 1 credit that includes both health and physical education OR .5 credit in health, plus .5 credit for district-approved participation in extra-curricular athletics or activities involving physical activity	
VISUAL, PERFORMING AND APPLIED ARTS – 1 Credit	
At least 1 credit of visual, performing, or applied arts	May substitute an additional credit in ELA, mathematics, science, a language other than English, or a CTE program
WORLD LANGUAGES – 2 Credits	
<p>Two world language credits, both in the SAME language other than English, can be earned anytime, K-12, if grade-appropriate May partially or fully substitute 1 world language credit with a MDE-approved CTE program or by completing an additional visual or performing arts course through the class of 2024 American Sign Language “counts” as a world language May be an online world language course</p>	

SUB-SECTION K-STUDENTS WITH DISABILITIES	
	Any modification not otherwise allowed but necessary because the pupil Is a child with a disability and modification is consistent with both the students EDP and IEP
SUB-SECTION L-TRANSFER STUDENTS	
	Student transfers in with at least 2 years of HS credits from an out-of- state or from nonpublic school The Personal Curriculum includes as much of the subject content as practical Must include at least 1 math class during final year of high school If the transfer student is enrolled for at least one full school year -Must take at least algebra 1 or -Must take a course normally taken after algebra 1 Must include civics course
ONLINE LEARNING REQUIREMENT	
A separate online course or learning experience OR Integrated online experience throughout each MMC course	

GRADUATION REQUIREMENTS

Twenty-two credits are required to graduate from the Ontonagon Area School. Students must pass enough elective courses beyond the requirements of the Michigan Merit Curriculum.