

**MANISTIQUE AREA SCHOOLS
MIDDLE AND HIGH SCHOOL**



**CURRICULUM GUIDE AND
COURSE OFFERINGS**

2017-2018

Manistique Area Middle and High School

Course Offerings and Curriculum Guide

Welcome to the Manistique Area Middle and High School. Our team of educators is proud of the programs that we have to offer your child. With a wide variety of class choices and extracurricular activities, the Manistique Area Middle and High School is leading the way in progressive education. Our knowledgeable and caring staff uses the Michigan Merit Curriculum as the backbone for our local curriculum. Augmenting the Michigan Merit Curriculum is a full battery of elective classes ranging from advanced physical education to independent living. Our vocational education classes (in conjunction with the Delta Schoolcraft ISD) prepare our students to enter in the world of work. College bound students can choose from Advanced Placement and honor level courses. Manistique Area Middle and High School students have opportunities to earn college credits through dual enrollment, AP courses and the Middle College.

A student's education is enriched by participating in fine arts course offerings as well as extracurricular activities. Band and art students expand cultural boundaries through the mastery of outcome and performance based standards. We proudly share our students talents through art shows and band programs. In our building you will notice artwork from our advanced students that adorn our hallways and common areas. Three times a year our music students demonstrate their skills to the public in our state of the art auditorium. Academic teams such M.A.S. Robotics and HS Quiz Bowl support learning through rigorous academic competition.

Academic support comes in the form of the Multi-Tiered System of Support, 504 plans and Special Education when appropriate. Parents are encouraged to become familiar with Michigan Standards and Benchmarks by visiting the Michigan Department of Education Website. The High School counselor will also discuss the flexibility found in the Michigan Merit Curriculum as well as how to implement a personal curriculum. Academic assistance is available in the form of tutoring before and after school and on Saturday mornings. Parents and guardians should feel free to set up an appointment with school officials to help resolve any questions they may have regarding programming at the Manistique Area Middle and High School. Please explore our new web-site at www.Manistiqueschools.org for further information regarding our programming.

Graduation Requirements:

The Manistique Area Schools Board of Education set the following requirements for graduation:

English/Language Arts.....	4 credits in sequence
Mathematics.....	4 credits in sequence
Algebra I	
Geometry/Geometry in Construction	
Algebra II or Algebra 2A	
One math credit required to be taken senior year	
Science.....	3 credits including
Physical Science	
Biology	
Chemistry or Physics	
Social Studies.....	3 credits including
World Geography/World History	
U.S. History	
American Government/Economics	
Physical Education/Health.....	0.5 +0.5 credits
VPAA (Visual, Performing or Applied Arts).....	1 credit
Foreign Language (includes state approved alternatives).....	2 credits
Elective Credits.....	5 credits

Minimum of 23 credits required for graduation

** make an appointment with your counselor to discuss variations to the Michigan Merit Curriculum and/or a Personal Curriculum.*

Two *examples* of possible course progression are listed below. Each student may have a different program based upon EDP goals and objectives.

TECHNOLOGY PREP

Freshman

English 9
Algebra I
World Geography/History
Physical Science
Physical Ed/Health
VPAA or Foreign Language

Sophomore

American Lit 10
Geometry in Construction
US History
Biology
VPAA and/or Foreign Language

Junior

English Lit 11
Algebra IIA
American Government/Economics
Chemistry
Career Related Electives

Senior

World Lit 12
Voc. Ed Math Credit
Career Related Electives
Additional Electives

POST SECONDARY PREP

Freshman

English 9
Geometry
World Geography/History
Physical Science
Physical Ed/Health
VPAA or Foreign Language

Sophomore

American Lit 10
Geometry or Algebra II
US History* or AP US HISTORY
Biology
VPAA and/or Foreign Language

Junior

English Lit 11 or Honors English Lit. 11
Algebra II or Functions/Stats/Trig
American Gov. /Economics or AP Gov./Economics
Chemistry
Electives

Senior

World Lit 12 or AP Eng. Lit
Functions/Stats/Trig or Pre-Calculus
Physics or AP options
Career Related Electives

ENGLISH/LANGUAGE ARTS

ENGLISH 9

This is a full year course granting one unit of credit. Language skills and literature are the two main areas of study. A study of grammar, usage problems, and mechanics is included to help students deal more effectively with the English language. Composition is also covered with emphasis placed on writing sentences, paragraphs, and short compositions. Both the grammar and composition units are intended to improve the students' writing skills. The study of literature includes a variety of short stories, nonfiction, drama, poetry and the novel. Literary terms are also introduced to the students. The goals of the literature units are to increase the students' interest in reading, to make reading enjoyable, and to improve the students' interpretation of literary works.

AMERICAN LIT 10

This course is designed for the student who needs additional work with reading and writing skills. Reading comprehension will be emphasized through the use of American classics. Students will also be required to improve their writing processes, including sentence structure, the development of ideas, and proofreading. Writing will focus on preparation for the Michigan Merit Exam and essay and research writing. This class replaces Honors English Lit 10.

ENGLISH LIT 11

English literature 11 is a course designed for those students who prefer learning more at a personal pace. The first semester involves literature from the Middle Ages, including Beowulf and The Canterbury Tales. A Shakespearean play will be included along with studies of historical events of the Renaissance period. The second semester focuses on modern literature, such as The Lord of the Flies. The primary writing focus will be research, and students will be introduced to the MLA format. Research essays and speeches are required in this course.

HONORS ENGLISH LIT 11

Intended for the college-bound student, the fall semester of this course will cover the Anglo-Saxon Period of England through the Renaissance. Readings include Beowulf and The Canterbury Tales. Analyzing poetry will be an important part of this course. In addition to the readings, students will study significant historical events. This class will require a variety of writing assignments: essays, critical analyses of various works of literature, and persuasive writing. One speech will be mandatory. In the spring semester, this course will continue the study of the Renaissance period. Readings will include poetry and a Shakespearean play. This course will also involve a variety of writing assignments. A major segment will be devoted to the composition of a research paper using the Modern Language Association format which is preferred by many colleges. One presentation will be mandatory. This class replaces Advanced Placement English Lit 12.

WORLD LIT 12

World literature is a senior English class that focuses on the theme of leadership as implemented by the state. The literature is written by a wide variety of authors from around the world. It includes Greek mythology and The Odyssey (Greek), Animal Farm (English), The Jungle (American), Left to Tell

(Rwandan), Night (Hungarian), and Catcher in the Rye (American) or Death of a Salesman (American). Writing will be incorporated into the curriculum with a focus on analysis. Students will be required to give at least three speeches.

ADVANCED PLACEMENT ENGLISH LITERATURE (12)

Objectives for this course as set by the AP program include the following:

- 1) Students will generate pieces of writing that meet the college-level standards.
- 2) Students will read texts that represent both classical and contemporary literature in genres such as drama, fiction, and poetry.
- 3) Students will develop the ability to discuss important ideas based upon the reading of challenging literature. Our textbook is Perrine's Literature and we will supplement these works with other readings. Assignments will involve poetry analysis, research and analytical writing, and classroom discussion. Students are encouraged to take the AP test at the end of the year for possible college credit. This course replaces World Lit 12.

FOREIGN LANGUAGE

SPANISH I (9-12)

This is an introduction to basic conversational Spanish with an emphasis on written rather than spoken language. Students will learn the mastery of Spanish sounds through an extensive vocabulary of numbers, colors, household and classroom objects, weather, and topics that they can relate to their everyday lives. Basic Spanish grammar will be introduced such as noun/adjective agreement, verbs, adjectives, and direct objects. Strength in English grammar and usage is recommended.

SPANISH II (10-12)

This course will develop and improve students' oral accuracy by building on and using, in their basic conversations, the vocabulary and material they learned in Spanish I. They will continue to learn new vocabulary and different verb tenses so they can communicate in the past and future tenses. They will also be required to keep a Spanish journal. This course is a fine arts elective, rather than an English credit.

SPANISH III (11-12)

Spanish III will develop the student's reading and writing comprehension. Students will continue learning complex verb tenses as a continuation from Spanish II. Students will be required to keep a Spanish journal. An oral conversation will be required for both the midterm and the final exam using present, past and future verb tenses. This course is a fine arts elective, rather than an English credit.

SOCIAL STUDIES

WORLD GEOGRAPHY/HISTORY (9)

World Geography is designed to provide an understanding of the Five Themes of Geography, and how they pertain to the many different geographic regions of the world. The course will introduce students to the many cultures, religions, ethnic groups, languages and how they interact with each other. We will study such areas as Latin America, Eastern and Western Europe, Russia's new Commonwealth, the Middle East, and Australia and how they compare to the United States. Units which might be included are human rights, peace and conflict, armaments, world trade, economic development, energy, natural resources, population, food and hunger, linguistics, culture, and technology. Subject matter will be approached by exploring how an issue is affected by and in turn affects the people from a variety of cultures and regions. The students will acquire an understanding of the values and priorities of the many cultures of the world as well as the acquisition of basic concepts and principles related to the world community.

UNITED STATES HISTORY (10)

This course will explore the influence of government, geography, diversity, economics, culture, foreign relations, and science and technology on U.S. history. It will cover the story of our nation from 1877 to the present, with emphasis on the 20th Century.

ADVANCED PLACEMENT U.S. HISTORY (10)

The Advanced Placement course in United States History is a challenging course that is meant to be the equivalent of a freshman college course and can earn students college credit. It is a two semester survey of American history from the age of exploration and discovery to the present. Solid reading and writing skills, along with a willingness to devote considerable time to homework and study, are necessary to succeed. Emphasis is placed on critical and evaluative thinking skills, essay writing, and interpretation of original documents. Students will master a broad body of historical knowledge and demonstrate an understanding of historical chronology. They will be able to use historical data to support their argument or position, interpret and apply data from original documents, including cartoons, graphs, letters, etc. Students will effectively use analytical skills of evaluation, cause and effect, compare and contrast, along with working with others to solve problems.

ECONOMICS/AMERICAN GOVERNMENT (11)

Economics is a semester-long course, paired with American Government, which uses the Junior Achievement Applied Economics Curriculum. This course is a complete overview of both macro-and micro-economics. Some of the concepts the student will learn about are: what is economics, the consumer in our economy, all areas of business (both large and small), supply and demand, the marketplace, role of labor and government in our economy, money, financial institutions, and the global economy. The course is fast-paced, with chapter tests occurring one per week. Economics is required for graduation. American Government is a one semester long survey of the structure and function of federal, state, and local governments, political parties, nominations and elections, and the rights and responsibilities of the United States citizens. Manistique Area Schools is committed to creating better citizens for our community as well as our country. In order to achieve this goal, this course may include some community service, and/or volunteer work for local projects.

ECONOMICS/AP AMERICAN GOVERNMENT (11)

The Advanced Placement course in United States Government and Politics is designed to give students an analytical perspective on government and politics in the United States. This course involves both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs, and ideas that make up U.S. political reality. The course will focus on these American Government topics: Constitutional underpinnings of democracy, political beliefs and behaviors of individuals, political parties and interest groups, the Congress, the Presidency, the bureaucracy, the federal courts, civil liberties, and civil rights. Manistique Area Schools is committed to creating better citizens of our community as well as our country. In order to achieve this goal, this course may include some community service and/or volunteer work for local projects. After successful completion of the Advanced Government Class, the student will have a comprehensive knowledge of United States government and politics.

SOCIOLOGY (11-12)

This course will analyze today's social problems. Students should be willing to discuss their views on the problems, with good sound facts to base their views on, and an open mind is needed but not necessary. We will be using Sociology: The Study of Human Relationships, Holt, Rinehart and Winston as our text. We will use worksheets and classroom simulations to better understand the problems. Some topics we will study are: research methods and terminology, culture, conformity, deviance, social interaction, social stratification, the life cycle, family roles, education, etc., and how they all affect how we live and act in this world today. Tests, papers, quizzes, worksheets, along with class discussion will make up your grade. Also two (2) research papers are due, one in the first semester and one in second semester. The first one concerns sociologists and their theories; the second on possible social problems and solutions. This is a social studies elective, designed for the senior year.

MATHEMATICS

ALGEBRA I

This is a full year, one credit course required for all students. Algebra develops an understanding of and ability to manipulate and apply all arithmetic and algebraic operations with real numbers, linear and quadratic equations, polynomials, and systems of equations. Also integrated into the algebra are problems involving geometry, probability, and statistics. Throughout the course, emphasis is placed on reading and problem solving, using scientific calculators appropriately, and learning to learn both independently and as a member of a small team.

GEOMETRY (9 - 12)

Plane geometry emphasizes the understanding of the basic structures of geometry and thus all fields of math. Much emphasis is placed on the student's understanding of the deductive method, accomplished through the formation of direct proofs. Other goals to be reached by the students are the use of clear thinking, precise expression, space perception, and imagination. Geometric transformations and algebra are applied throughout the course. Students will have opportunities to improve reading skills and learn both independently and as a member of a small team.

GEOMETRY IN CONSTRUCTION

Geometry concepts are applied to construction in this hands on math course. Students pursuing a career in the building trades are encouraged to take this year-long course.

ALGEBRA II (10 or 11)

Topics covered will include formulas for sequences; variation and graphs with an introduction to the graphing calculator; linear relations; matrices; systems of equations and their solution by several methods; parabolas and quadratic equations; functions; powers; roots; logarithms; trigonometry; polynomials; equations for circles, hyperbolas, and ellipses; and arithmetic and geometric series.

ALGEBRA II A

Topics from the first semester ALG II are covered over the course of an entire school-year. This course is designed for students that are on track to be career ready.

FUNCTIONS, STATISTICS, & TRIGONOMETRY (11 or 12)

FST is a course that brings the topics of Algebra and Geometry together. This course includes ideas on data analysis, function modeling, transformation of graphs, Trig relations, power functions, sequences and series, polynomial functions, and matrices.

PRECALCULUS AND DISCRETE MATHEMATICS (12)

Precalculus investigates traditional concepts of calculus such as: maxima, minima, infinite sequences, limits, derivatives and integrals. Discrete mathematics covers topics such as: formal logic, recursion, mathematical induction, combinations and graph theory - all topics vital for a world integrates the concepts of calculus and discrete mathematics and is applied to real-world situations.

SCIENCE

PHYSICAL SCIENCE (9)

This course serves as an introduction to the physical sciences of chemistry and physics. Topics are split fairly evenly between the two areas, and include the Nature and Methods of Science, Energy and Motion, Matter, Substances and their Interactions, Light, Sound, and Electricity. Group work, laboratory experiments, data recording, and manipulation of data will help build a foundation for further courses in the sciences. dependent on the use of computers.

BIOLOGY (10)

Students will study life from a modern molecular biology standpoint to include taxonomy (the scientific names of at least 75 plants and animals), biochemistry, cell biology, zoology, botany, and an overview of plant and animal anatomy and physiology. Moreover, the student will write a research paper that will be presented in front of the class. Applications of these topics to medicine, toxicology, and field methods will be emphasized.

CHEMISTRY (11)

Chemistry is intended for the college bound student planning to pursue a career in a science-related field. This course covers all of the core chemistry topics: matter and energy, atomic structure and bonding, chemical reactions, states of matter, chemical equilibrium, acids and bases, redox chemistry, kinetics, and organic chemistry. A variety of methods will be utilized, including: labs, lectures, group work, and problem solving. A strong background in math and science is recommended.

PHYSICS (11-12)

Physics is the study of the physical world around us, by using problem solving, critical thinking, and lab applications. This course focuses on the topics of mechanics and kinematics, such as motion, forces, momentum, and energy. Other topics included in this course are electricity, waves, rocketry, roller coasters, and nuclear physics. Many of the labs involve the use of computers and electronic sensors to gather data. This class deals with a lot of mathematical problem solving and is best taken by those students that are college bound. Physics is either the fourth or fifth course in the Professional Prep Pathway and could include a spring trip to a roller coaster amusement park.

ENVIRONMENTAL SCIENCE (11-12)

Environmental Science engages students in the study of how science applies to real-world environmental issues. Students strengthen their thinking skills as they learn how science furthers our understanding of how humans interact and live with the environment. This course is designed to be either the third or fourth science course in high school for students who are on the Tech Prep pathway.

FINE ARTS

ART 1

Semester One - Dimensional Art

The focus of 2-dimensional art is based on the elements of art and principles of design as well as art criticism, art history and aesthetics. The first marking period is reserved for the development of basic drawing skills in several black and white mediums. The second marking period deals with an exploration of color theory and its application. Terminology, classroom procedures, safety in the art room and a daily sketchbook will be ongoing throughout the program. Students are required to provide their own sketchbooks.

Semester Two - Dimensional Art

The focus of 3-dimensional art is based on the various ideas, mediums, methods and techniques that define a 3-dimensional work of art. The elements of art and the principles of design guide us through the development of critical thinking skills and are our objective in the building processes. We explore various artists, their work and their place in history. Terminology, classroom procedure, safety in the art room and a daily sketchbook will be ongoing throughout the program. Students are required to provide their own sketchbooks.

ADVANCED ART II, III & IV

Students must have a prerequisite of one full year in art (must include one semester of 2-D art) with a B average. It will be assumed that students understand art-related terminology, basic processes, that they have an interest in art and a strong desire to excel in Art. Students will delve deeper into the creative processes through both black/white and color mediums. Finished work will be compiled, organized, photographed and arranged into a working portfolio. Art history, critical thinking, aesthetics and a daily sketchbook are ongoing throughout the program. Students are required to provide their own sketchbooks.

HIGH SCHOOL BAND (Instrumental Music)

The high school bands are performing classes. Initially, students learn the basics of reading and playing music. Students are expected to progress in their abilities with grade advancement. Band students perform three concerts during the school year. Other opportunities for students include participation in pep-band and attendance on fine arts related field trips. Attendance at ALL performances is REQUIRED. (Varsity football players and varsity cheerleaders are excused from football halftime performances.)

PHYSICAL EDUCATION

PHYSICAL EDUCATION/HEALTH (9)

A required course in physical education for all freshman students is divided into four areas--pool, gym, health, and Freshman seminar. Each student will spend 12 weeks in each class and then rotate to the next area. The program in the pool will consist of increasing individual swimming ability in the five basic swim strokes, diving, safety skills rescue techniques, conditioning, and water games. The gym area will consist of a variety of activities including team sports, individual sports, and physical fitness. Essential Health and Living Skills: - covers nutrition, tobacco and other drug and alcohol abuse, HIV/AIDS, Sexually Transmitted Infections (STI), and reproductive health. Integrated throughout the course are opportunities for students to learn and practice interpersonal communication skills, manage conflicts, and recognize violent situations. They are expected to practice respect, responsibility and self-control to thrive on a day-to-day basis, and maximize their potential physical, emotional, social and intellectual growth. Freshman Seminar will include study skills, test-taking skills, organization, time management, career development, and other skills necessary for a successful high school career.

ELECTIVES

ADVANCED FITNESS

Fitness programs are designed for individual students that are pursuing improved performance in MHSAA athletic sports. Activities include stretching, strength and conditioning and sport specific kinesthetic drills.

ADVANCED PLACEMENT COMPUTER SCIENCE

AP Computer Science introduces students to the central ideas of computer science, inviting students to develop the computational thinking vital for success across multiple disciplines. The course encourages students to be creative and encourages students to apply creative processes when developing computational artifacts. Students design and implement innovative solutions using an iterative process similar to what artists, writers, computer scientists, and engineers use to bring ideas to life.

ACCOUNTING

This business course focuses on basic accounting principles covered by Michigan Standards and Benchmarks. This elective can be used as a math credit during the senior year.

INDEPENDENT LIVING

Whether a student is going into the world of work or have been accepted to a college, they all need to know the basic life skills to help lead a healthy happy life. Balancing a bank account, reading bills, paying taxes, healthy cooking/eating and interpersonal skills are some of the topics covered in this upper level elective

MEDIA TECHNOLOGIES

A course designed to introduce a small number of students to different facets of live productions. Students learn in a hands on approach how to operate the multi-media technologies associated with pre-recorded and live productions. An additional component of this class is the mentorship. Lighting, sound and stage productions as well as art productions and sporting events will be directed by the students involved in this class.

WORK-BASED LEARNING COURSE

This course is a work-based course designed to allow the student the opportunity to go off campus and perform unpaid duties. Students will be responsible for securing their work-based site. Students will be granted high school credit for their work-based experience course and the student cannot receive payment for duties performed at the site.

YEARBOOK

The primary purpose of the class is to produce the Manistique High School Yearbook. By working with the business community, students will secure needed advertisement to help finance the cost. While working within a budget, the costs determine the size of the book; students determine the quality. Students will write articles, learn basic photographic skills and develop basic page layout techniques.

VOCATIONAL EDUCATION

WELDING

The welding program is designed to help develop job entry-level skills for the student interested in a career in welding. The student will learn basic and advanced skills in ARC, MIG, TIG and Oxyacetylene welding. A major emphasis in ARC welding is developing the welding techniques necessary to meet the standards of the American Welding Society. Students will also develop advanced welding procedures, blueprint reading and job analysis through independent study and work experience.

WELDING II AND III (11-12) 2 Hour Block

Advanced welding techniques associated with ARC, MIG and TIG will be applied in the classroom setting. Additionally, students will have the opportunity to earn skills based certifications and participate in welding competitions. Juniors may sign up for the Middle College Track and work towards a welding endorsement by completing a '5th year' of high school.

HEALTH OCCUPATIONS I (11-12)2-Hour Block

The Health Occupations Cluster Program is designed to assist all students in acquiring transferable skills and technical experience to meet the growing needs in basic health care fields. Instruction will be provided in the Career & Technical Center and in off-site, community work sites. The program works in cooperation with the student's family, participating schools, health care providers, community service organizations, and institutions of higher learning.

The overall goal of the first year is to emphasize the common core skills and foundation skills which are transferable to a wide variety of health care occupations. Desirable employee attributes and employability skills will be developed, such as providing leadership, working in teams, and displaying appropriate job attitudes. An investigation into career choices and writing a resume, as well as completing job applications will be addressed. Opportunities for job shadowing in areas of interest will be available. CPR/First Aid is available for 2 year certification. CENA--Certified Evaluated Nurse Aide Program is an optional part of this course, Minimum 75 hours of classroom training/and 24 hours of clinical training.

HEALTH OCCUPATIONS II (12) 2-Hour Block

Health Occupations II provides introductory experience in a specific health field and/or advanced training and education. This is accomplished through related course-work in the classroom, and work experience opportunities in the community. Each student completes one or more internships during the year.

Medical Laboratory Assistant

Medical Office Assistant

Nursing Assistant

Dental Assistant

Veterinary Assistant

Optical Assistant

Mental Health Assistant

Physical Therapy Assistant

Respiratory Care Assistant

Radiological/Diagnostic Imaging Assistant

Child Care Assistant

Social Work Assistant

Pharmacy Assistant

Both first and second year students have an opportunity to participate in the vocational youth organization, HOSA. This enhances the health occupation program by providing opportunities for leadership training and for attaining valuable communication skills, as well as an opportunity for students to compete with other students on a local, regional, state, and national level.

AUTOMOTIVE TECHNOLOGY I & 2 - 2-Hour Blocks

This course is a comprehensive study of the theory and repair of automotive systems. Instructional units include engine repair, electrical systems, drive trains, steering and suspension and brakes. These instructional units begin to prepare the student for successful passage of the State of Michigan mechanic certification tests. Students will also focus on their career interests through involvement with a variety of school-to-work activities such as job shadowing, work experience and mentorships. In addition students will be involved in the development of individual projects and manufacturing processes.

INTRO TO BUILDING CONSTRUCTION

Freshman survey course exposes pre-vocational students to an overview of the Building Trades program. Introduces concepts that revisited BT 1 & 2.

BUILDING TECHNOLOGY I (10-12) - 2-Hour Block

Building Technology is designed for students interested in learning basic skills related to the construction and maintenance of small and large structures. Hands-on experience will be gained through the construction of a house, from the planning stage to completion, as well as various building/repair projects. Learning experiences will be gained through introductions to hand and power tool use, building materials, blueprint reading, computer aided design, concrete work, brick and block masonry, carpentry skills, roofing, insulation, windows and doors, interior trim, vinyl siding, plumbing, electrical cabinet making, drywall hanging and finishing, painting, finishing woodwork, landscaping, and employability skills.

BUILDING TECHNOLOGY II (12)-- 2-Hour Block

Second year Building Technology students will further develop their construction and leadership skills. They will be assigned as Crew leaders, and will focus on their own career interest. Advanced second year students can also be placed on a work experience site with a contractor in the community to further define their career goal.

CAD I - BASIC CAD (Computer Assisted Drafting) (10-12)-- 2-Hour Block

This course is designed to provide students with training in the area of Computer Assisted Drafting. Components of the course include the study of the principles and graphic methods currently employed in this industry. Emphasis is placed on learning basic and higher level CAD concepts in addition to acquiring fundamental computer skills. Drafting topics covered include geometric construction, technical sketching, orthographic projection, axonometric drawing, oblique drawing, perspective drawing, and dimensioning, section, primary and secondary auxiliary views. Computer topics include Windows, CAD systems, configuration of software, and software compatibility. Employability skills will also be taught as part of this course.

CAD II 3D MODELING (11-12)- 2-Hour Block

This course is designed to give students basic knowledge of three-dimensional (3D) software. The student will create 3D models using the basic concepts of parametric design. The software package used in this class are AutoCAD , Mechanical Desktop and Solid Edge. In the course of the year students will be exposed to the following topics: Boolean operations, rendering, mass properties, 3D modeling, parametric design and 3D animation.

CAREERS IN EDUCATION I (11 AND 12) - 2- HOUR BLOCK

The Careers in Education I course introduces high school junior and senior students to careers in teaching and education. Students study the growth and development of the learner, as well as the social, political, philosophical, cultural, legal and economic forces that shape the United States public education system. In addition, students participate in classroom observations and an extended on-site lab experience assisting a classroom teacher with one-on-one student assistance, group monitoring, and whole class instruction. Students study child development and the principles of effective teaching practices. All Careers in Education I students will be provided an on-site work experience in the Little Explorers Preschool classrooms and will participate in the Educators Rising Leadership Competition. A strong interest in exploring a career in education and a desire to work with young children is recommended.

CAREERS IN EDUCATION II (12) - 2- HOUR BLOCK

The Careers in Education II course is open to high school senior students who have successfully completed Careers in Education I and wish to broaden their knowledge and skills through more extensive training and work experience. This course reinforces the content learned in the year prior through participation in an education internship. The internship may involve working in a pre-school level through middle school classroom and is selected to match the student's career focus. All students will participate in an Educators Rising leadership competition. A sincere interest in pursuing a college degree in an education related field is recommended when enrolling in this course. Prerequisite: Successful Completion of Careers in Education

TIMBER HARVESTING EQUIPMENT OPERATOR - 2 Hour Block

The Timber Harvesting Equipment Operator program prepares students for employment opportunities with private firms and government agencies. This program focuses on forest management practices that include: harvesting techniques, forest product identification and navigation with maps, compass and GPS. Students will operate harvesting simulators and learn safety MiOSHA safety standards. Coursework includes traditional classroom setting, much of the class will happen at indoor and outdoor labs. Students are expected to have necessary clothing and safety equipment.

COLLEGE CREDITS

Manistique Area High School students earn college credits through three pathways:

1. Dual Enrollment- Students that take college class through Bay Community College.
2. Advanced Placement- Students that are enrolled in AP courses will sit the end of the course exam. Earning a 4 or 5 on these tests will garner a college credit.
3. Middle College- Welding and Auto students can earn a certificate or an Associate's by committing to a 5th year of high school.

VIRTUAL LEARNING

MICHIGAN VIRTUAL

Students may earn credit through Michigan Virtual High School. These courses are designed in conjunction with the Michigan Department of Education and are therefore aligned to Michigan Standards and Benchmarks. Parameters that guide use of these classes are on hand in the counselor's office. This course may have a mentor in the classroom because MIVHS on-line courses have a live teacher interacting with the student through the computer.

CREDIT RECOVERY

Students may recover credits through the use of Odyssey-Ware site licenses held by the Manistique Area Schools. Payment and parameters for these courses can be found in the counselor's office.

GEN NET

Virtual course work, designed Genesee County, to meet the needs of a student that is struggling with traditional scheduling. Guidelines and parameters established by the pupil accounting will be adhered to by the student.