

**MANISTIQUE HIGH SCHOOL**

**2015-2016**

**COURSE OFFERINGS**

# GRADUATION REQUIREMENTS

Manistique Area Schools Board of Education set the following requirements for graduation from Manistique Area Schools, beginning with the class of **2008**:

23 total credits are required for graduation:

English.....	4 credits in sequence
Mathematics.....	4 credits, including enrollment in a math class during the junior year
Science.....	4 credits, including enrollment in a science class during the junior year
Social Studies.....	4 credits, including
	World Geography/Global Issues
	U. S. History
	American Government/Economics
Physical Education/Health.....	1 credit
Computer Education.....	0.5 credit
Foreign Language, fine or practical arts, OR vocational education.....	2 credits

A maximum of 1 non-academic credit may be earned towards graduation through participation in extracurricular activities at the rate of 0.25 credit per year maximum for successful completion of a season, according to the coach.

Half credits are awarded at the completion of each semester. Students who earn a passing grade (D- or better) in a class that meets for one class period for one semester are eligible for 0.5 credit per class per semester.

Students must be enrolled in high school for eight semesters to qualify for graduation. Students may enroll in only one vocational class per year. Seniors may be permitted to enroll in a second vocational class by contract, with approval of the principal. All students must be enrolled in six classes per semester. Final class placement will be determined by Manistique High School.

## **SCHOOL IMPROVEMENT MISSION STATEMENT**

The mission of the Manistique Middle and High School staff is to provide an education for every student which will result in individual success in the following areas: academic, vocational, physical, creative, cultural and social. Working together in a partnership with the students, parents, and the community we are building future generations of responsible, self-confident, respectful, motivated adults.

**NCAA ELIGIBILITY:** Potential college athletes are encouraged to choose courses that will count towards National Collegiate Athletic Association eligibility. Information is available from the Guidance Counselor, Athletic Director and coaches, or online at [www.ncaa clearinghouse.net](http://www.ncaa clearinghouse.net).

## **CURRICULA**

**TECHNOLOGY PREPARATION:** The Technology Preparation curriculum is designed to prepare students for entry into certificate or associate degree programs at a community college. This curriculum emphasizes the communication, math, science and technology needed for careers in technical occupations. Students who choose the community college program may elect to continue their education in a college or university working towards a bachelor's degree.

**PROFESSIONAL PREPARATION:** The Professional Preparation curriculum is designed to prepare students for entry into a bachelor's degree program at a college or university. This curriculum emphasizes the traditional academic skills needed to enter programs leading to professional careers. Students who choose this curriculum may be planning to pursue an advanced degree.

**SPECIAL EDUCATION:** The Special Education curriculum is made available to eligible students through an Individual Educational Plan.

# SUGGESTED CURRICULUM PROGRAMS

## TECHNOLOGY PREPARATION

### **Freshman**

English 9\*  
Algebra IB\*  
World Geography/History\*  
Physical Science\*  
Physical Ed/Health\*  
Computer Skills  
Career Related Electives

### **Sophomore**

American Lit 10\*  
Practical Geometry\*  
US History\*  
Biology\*  
Career Related Electives

### **Junior**

English Lit 11\*  
Algebra IIa\*  
American Government/Economics\*  
Chemistry\* or Environ. Science\*  
Auto/Bldg. Trades/Health Occ. /CAD  
Career Related Electives

### **Senior**

World Lit 12\*  
Algebra IIb\*  
Science Elective\*  
Social Studies Elective\*  
Bldg Trades/Auto/Health Occ. /CAD  
Career Related Electives

## PROFESSIONAL PREPARATION

### **Freshman**

English 9\* or Honors English 9\*  
Geometry\*  
World Geography/History\*  
Physical Science \*  
Physical Ed/Health\*  
Computer Skills  
Career Related Electives

### **Sophomore**

American Lit 10\* or Honors American. Lit. 10\*  
Geometry\* or Algebra II\*  
US History\* or AP US HISTORY\*  
Biology\*  
Career Related Electives

### **Junior**

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

### **Senior**

World Lit 12\* or AP Eng. Lit\*  
Functions/Stats/Trig\* or Pre-Calculus\*  
Social Studies Elective\*  
A.P. Biology\* or Physics\*  
Career Related Electives

**\*denotes required courses that meet graduation requirements.**

Career Related Electives include Foreign Language, Fine Arts, Vocational Education, Practical Arts, and non-required core academic courses.

# **LANGUAGE ARTS**

## **B 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.**

## **B HONORS ENGLISH 9**

**Enrollment in class will be determined by the top scores in an exit exam from the previous year. (The top 20% of the class) The class replaces English 9.**

## **B 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.**

## **B HONORS AMERICAN LIT 10**

**This class is intended for the college-bound student. Using classics from American history, students will discuss the influence of**

historical events that are reflected in the writing; students will also examine the styles of various American authors. Writing will include formal analysis papers, essays, research writing (using the MLA format), and practice for the Michigan Merit Exam. Two speeches will also be mandatory. This class replaces American Lit 10.

### **B ENGLISH LIT 11**

English literature 11 is a course designed for those students who prefer learning at a slower pace than those in a college-prep English class. This course has been implemented by the state for junior year. 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.

### **B 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. This class is a fine arts elective, rather than an English credit.**

## **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.**

## **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.**

**Prerequisite: Students will need a minimum grade of C+ in both English and computer skills classes along with self-motivation and confidence in order to be placed in this class.**

**NOTE: A student may repeat the class a second year with approval from the teacher and the high school principal. This course is a fine arts elective, rather than an English credit.**

# **SOCIAL STUDIES**

## **WORLD GEOGRAPHY/HISTORY**

**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.**

**Global Issues is to acquaint the student with the inter-relatedness of human beings and their commonalities on the international basis. It introduces a view which looks at problems and issues that are shared by all nations and strategies for dealing with these issues. The course**

**is designed to prepare the student to think, feel, and act from a perspective that is global rather than personal, national, or regional.**

**This is not designed to be a world history course but a survey of contemporary global issues. 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.**

**This course includes writing a 3 page research paper on a current Global Issue. The paper will be written in A.P.A. style. If time allows, the paper will be presented to the class. This course is required for graduation.**

### **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. Required for graduation.**

### **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.**

**After successful completion of the Advanced United States History Class, students will have the option of taking an A.P. United States History exam which would quality them for college credit upon successful completion of the test. No pre-requisite is required. Enrollment in the class is at the discretion of the students. This class replaces regular U.S History.**

### **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. Required for graduation.**

## **ECONOMICS/AP AMERICAN GOVERNMENT (11)**

**During the first semester, Economics is covered (see previous paragraph).**

**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. The students will also have the option of taking an A.P. Government exam which would qualify them for college credit upon successful completion of the test. No prerequisite is required, enrollment in the class is upon the discretion of the student. This course would also fill the American Government requirement for graduation and replaces regular Economics/Government course.**

## **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.**

## **PRACTICAL GEOMETRY (10-12)**

**This course is designed to be taken after completion of Applied Algebra I. This is a full year course. This class will offer students a slow transition into Geometry. Basic geometry concepts will be covered: measurements of lines and angles, reflections, triangle congruency, two and three dimensional shapes, perimeter, area and volume.**

**Recommendation by Teacher.**

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

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

## **FUNCTIONS, STATISTICS, & TRIGONOMETRY (11 or 12)**

**Pre-requisites: Algebra II and Geometry (with a C or better)**

**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 dependent on the use of computers.**

**This course integrates the concepts of calculus and discrete mathematics and is applied to real-world situations.**

**Prerequisite: Successful completion of Functions, Statistics and Trigonometry.**

# **SCIENCE**

## **PHYSICAL SCIENCE (9-10)**

**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.**

### **BIOLOGY (9-10) #0324**

**Prerequisites: Successful completion of Algebra, Physical Science,**

**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.**

**This is the second course on the Professional Prep pathway. This course may be taken concurrently with Chemistry.**

### **D CHEMISTRY (10-12) #0334**

**Prerequisites: Successful completion of Physical Science and Algebra I.**

**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.**

**This is the third science course in the Professional Prep curriculum. Chemistry and College Prep Biology may be taken concurrently.**

### **D PHYSICS (11-12) #0344**

**Prerequisites: Algebra II & Chemistry (with a C or better)**

**Corequisite: FST**

**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)**

**Prerequisites: Successful completion of Physical Science and Tech Biology/CP Biology**

**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 I**

**Art I is designed to be a full-year course.**

#### **Semester One - Fall: 2-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 - Spring: 3- 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**

**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.**

### **TEACHER ASSISTANT COURSE**

**Prerequisites: The student's EDP (education development plan) must indicate that he or she is interested in occupations in Human Services Career Pathway.**

**This course is an experiential learning course designed to give students an opportunity to gain experience working in a classroom**

**setting and assisting students. This course is designed to help students learn how to become a positive leader in a classroom.**

**Objectives of the Course:**

**Throughout the course the students will be able to:**

- 1. Assist the teacher in enforcing the classroom procedures and routines**
- 2. Develop positive relationships with students in the classroom**
- 3. Assume responsibility in some of the classroom activities**
- 4. Take on the role of a classroom leader**
- 5. Assist the teacher in developing plans for future lessons**
- 6. Assist the teacher in ensuring all students have the most optimal opportunity to learn in the classroom setting.**
- 7. Students will learn teaching techniques and how to tutor or mentor other students**

**Requirements of the Course:**

**Acceptable attendance and satisfactory fulfillment of the following will be required to successfully complete this course:**

- 1. Students must complete the Odysseyware Teacher assistant course on the computer. This portion of the class is completely online. Student will view the course syllabus, will be given lessons, quizzes, tests, and projects.**
- 2. This course is graded and not a pass/fail course**

**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.**

**Objectives of the Course:**

- 1. Weekly Online Journals**  
**Students must complete a journal entry once a week reflecting on classroom experiences and commenting on the particular events that were most noteworthy. Students must get the journal signed at the end of each week by their work-based employer. The student then must turn in their signed journals each week to their Manistique High School teacher/coordinator assigned to them.**
  
- 2. Training Agreement – Students must complete the training agreement which outlines the responsibilities of the student, employer/supervisor, and the school.**
  
- 3. Training Plan -- Students must complete the training plan which indicates the student's career goals and outlines the specific performance elements/job skills that the student will be learning. The student and the work-based employer/supervisor must discuss and assign the student job tasks/training activities that assess the student's progress.**

### **HIGH SCHOOL BAND (Instrumental Music)**

**The high school bands are performing classes. Attendance at ALL performances is REQUIRED. (Varsity football players and varsity cheerleaders are excused from football halftime performances.)**

**Students must have the director's approval to sign up for this class.**

### **WELDING TECHNOLOGY**

**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.**

## **CAREER AND TECHNICAL EDUCATION** **PROGRAM**

### **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 Careers Today (2nd Ed.) Judith Gerdin (Mosby)**

**Diversified Health**

## **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-Hour Block**

**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.**

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

**Prerequisite: Helpful classes to take for Building Technology would be Algebra, Geometry, and Woods I.**

**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, cabinetmaking, drywall hanging and finishing, painting, finishing woodwork, landscaping, and employability skills.**

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

**Prerequisite: Building Technology I**

**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.**

**Prerequisite: Basic CAD with a grade of C+.**

# **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.**