

Course Offerings and Descriptions

COURSE OFFERINGS-L'ANSE AREA HIGH SCHOOL-2008-2009

ART

Art I
Art II
Ceramics & Product Design
Advanced Art

BUSINESS

*Computer Applications
*Business Applications
BAT Basics
Accounting I
BAT Accounting/Finance
Networking
Office Applications

ENGLISH

English I – Honors English I
English II – Honors English II
Amer.Lit/Communications (Eng. III)
Honors English III
English IV - Honors English IV

FOREIGN LANGUAGE

Spanish I
Spanish II
Spanish III/IV

PHYSICAL EDUCATION

Boy's PE/Health (9&10) Girl's/Health
Boy's Gym 2 (11&12) Girl's Gym 2

MUSIC

Band

SOCIAL SCIENCE

U.S. History/Geography (9thGr)
U.S. History (10thGr)
Civics/Economics
World History
Government/Economics
*Psychology
*Sociology

SCIENCE

Earth Science/Honors Earth Science
Biology I
Honors Biology I
Conservation
Chemistry I
Chemistry II
Physics
A.P. Biology

MATHEMATICS

Algebra I
Honors Algebra I
Geometry
Honors Geometry
Algebra II
Honors Algebra II
Functions/Stats/Trig (FST)
Pre-Calculus Discrete Math (PDM)
Practical Math (Gr. 12)

INDUSTRIAL ED.

Mechanical Drawing/CAD
CAD I
CAD II
Machine Woods
Advanced Woods
Metal Fabrication
Power Mechanics

CAREER & TECHNICAL

**Early Childhood Education (Classes are taken at BHK)
**Medical Aide (Classes at LHS & Clinical site)

NOTES

*1/2 Credit – semester class
**2 Credit – double period class
***Building Trades (Baraga)
***3 Credit – three period class
All other classes are 1 credit

L'Anse Area Schools
Statement of Assurance of Compliance with Federal Law

L'Anse Area Schools complies with applicable federal and state laws prohibiting discrimination, including Title IX of the Education Amendments of 1972 and Section 504 of the Rehabilitation Act of 1973. It is the policy of the L'Anse Area Schools that no person, on the basis of race, sex, color, religion, national origin or ancestry, age, height, weight, marital status or disability, shall be discriminated against in educational programs and activities or admissions. Questions or concerns regarding Statement of Assurance of Compliance with Federal Law should be directed to Superintendent, L'Anse Area Schools, 201 N. Fourth Street, L'Anse, MI 49946-1499, (906) 524-6121.

COURSE OFFERINGS L'ANSE AREA HIGH SCHOOL

GENERAL EDUCATION CLASSES ART

ART I

This course introduces students to basic visual art principles through the application of various art materials and methods.

- Prerequisites - none

ART II

This is an intermediate/advanced course expanding upon the principles of Art I where students focus more on the creative process and personal expression. Students will also develop a greater understanding of Art History, Art Criticism and Advanced Design Theory. Techniques such as drawing, painting, sculpture, printmaking, ceramic and metal art will be explored.

- Prerequisites - Art I

CERAMICS & PRODUCT DESIGN

This course is an introduction to ceramics and basic product design. Throughout this course students will learn to implement design theory and manipulate art materials such as clay, glass, metal, wood, fiber and paper to create functional and sculptural art products.

- Prerequisites - Art I is recommended

ADVANCED ART

This course is designed for the motivated student that has successfully completed Art I, Art II and Ceramics/Product Design. This class will demand sound and critical thinking skills to interpret and facilitate art production based on specific project requirements. Students will have creative freedom to individualize design problems. The purpose of this course is to help students prepare a professional art portfolio for the admittance to a college level art program.

- Prerequisites - Art I, Art II & Ceramics/Product Design. Written teacher recommendation is required to enroll in this course.

BUSINESS CLASSES

COMPUTER APPLICATIONS

This is a one-semester required course for all ninth grade students. It offers an opportunity for students to broaden usable and practical skills at the computer. Also, this course expands auxiliary skills, such as proofreading, time management, visualization, and organizational skills that contribute to a well-rounded education. Microsoft Office---Word, Excel, Access, Outlook, and Publisher --is covered.

BUSINESS APPLICATIONS

This is a one-semester graduation requirement course for all 9th grade students. It provides an opportunity for students to develop usable and practical job search skills. Students will research

and explore career opportunities in the Business Computer Lab using the “**CAREERCRUISING.COM**” website. Job search activities will include the creation of a RESUME and Letter of Application. Interviewing techniques will also be presented. Students will complete the job search by researching on-line job search websites. In addition, students will develop strategies for: decision making, communicating effectively, adjusting to the world of work, advancing their career, balancing career and personal life.

BAT BASICS

Class offered only to students in grades 10-12. **Business and Technology (BAT) Basics** is a one-class period, hands-on computer oriented class, which will provide students with instruction based upon the latest technology and its application to the business world. Students will develop technological background skills. The class will be offered for two semesters. It includes computer applications, applied communications, management, leadership, employability skills, career planning development, budget preparation, checking account applications, study skill development, marketing, E-Commerce, banking and credit. All of these skills are necessary for success in the workplace.

- Prerequisites: Keyboarding

ACCOUNTING

Class offered only to students in grades 10-12. This course provides an exposure to an accounting CAREER, the terminology of bookkeeping and accounting, how to start an accounting system, transaction analysis, describes the accounting cycle, common accounting practices, provides for microcomputer applications, applies to service, merchandising, partnership, and corporate functions and involves the complete accounting cycle.

- *Prerequisites: Keyboarding, mathematic background recommended*

BAT ACCOUNTING/FINANCE

Class offered only to students in grades 11-12. This one-period class will provide academic/vocational skills for the student in computerized accounting and financial applications, which will lead to the capability to use accounting/finance skills in preparation for the job market. The student will learn how to study independently in order to prepare for a higher education setting.

- Prerequisites: Keyboarding, Accounting I

NETWORKING

Class offered only to Students in Grades 9-12. This one/two-period class will provide students an opportunity to work independently under the supervision of the Business Teacher and network administrator on tasks vital to the operation of the L’Anse Area Schools Network. Students will be required to work on various technology projects for the L’Anse Area Schools. Students will work with the Windows 2000 or Windows XP platforms using various computer applications. Projects include troubleshooting hardware and software, equipment and license inventory, staff and student technology training. Students will assist in PowerPoint projector and distant learning equipment setup. Students must be willing to take charge or follow the direction of others in a variety of circumstances. In addition to the network responsibilities, students will work collaboratively with administration, teachers, and staff.

- Prerequisites: Keyboarding, instructor approval, administrator approval, network administrator approval

ENGLISH

ENGLISH I

English I is designed so that instructional time emphasizes grammar, composition, and literature. Areas of grammatical concentration are the eight parts of speech; the basic parts of the sentence; prepositional phrases and appositives; verbs and verb phrases; clauses; sentence faults; adjectives and adverbs, special problems in usage, and mechanics. Also focused upon are vocabulary building and spelling as well as basic study and reading skills. Areas of concentration in literature are selections arranged by genre to reinforce the student's growing understanding of literacy types and terms. One short story unit, a modern world novel, an epic classic, and a Shakespearean drama with corresponding vocabulary and composition assignments are read and taught.

ENGLISH II

This course is designed to provide the student with continued studies in grammar, composition, and literature. All areas are combined in units focused around literature and incorporation of grammar, composition, and technological assessments. The areas of concentration in literature are again arranged by genre to reinforce the student's growing understanding of literature types and terms. One short story unit, a modern novel, two classic novels, and a Shakespearean drama with corresponding vocabulary and composition are read and taught.

ENGLISH III COMMUNICATIONS

This semester course is based on four curriculum goals: To encourage personal growth and self confidence through the development of effective interpersonal communication skills; To improve skills in group problem solving; To improve leadership skills; and To expose students to the basic forms of communication which will dominate their lives.

AMERICAN LITERATURE

This semester course is based on four curriculum goals: To improve basic reading comprehension and develop the student's ability to critically analyze what they read; To express those skills verbally and in writing through and emphasis on class discussion and essay tests; To develop an interest in reading that will extend beyond the classroom; and To familiarize students with prominent American authors and some of their work.

English courses at the freshman, sophomore, junior, and senior level will include one section of Honors English. The curriculum will include all material currently taught in the traditional curriculum. In addition, there will be outside readings, more emphasis on writing, and the classes will move at a more accelerated pace. These courses are designed for serious students preparing for college or those with an interest in English. Senior Honors English will include one full semester of advanced writing.

- Prerequisite: Standardized test scores, teacher recommendation, grade point average.
- Once enrolled in Honors a student must maintain a B average in the class.

ENGLISH IV GENERAL BRITISH LITERATURE

This course is designed to provide an overview of British literature from the Anglo-Saxon period up to the 20th Century, to develop basic writing skills and to improve vocabulary skills.

- Prerequisites - Passed English I, II, III

LIBRARY SCIENCE

This course has six objectives: To be able to perform the basic duties necessary for the smooth daily operation of the library, To be able to assist students and adults in their search for information in the library, To keep the different types of library materials in proper order to facilitate their ease of use by library patrons, To be able to use the general reference materials and certain specific reference materials in the search for information, To be able to operated some of the basic audiovisual equipment in the library and to assist others in their use, and To be able to use the library automated system and to assist others in the use of the on-line public access catalog.

FOREIGN LANGUAGE

SPANISH I

This course consists of an introduction to Spanish conversation, vocabulary and grammar. Students will be expected to be able to speak, write and translate basic Spanish by the end of the year.

SPANISH II

This course is a continuation of Spanish I, and emphasizes more complex grammar structures in Spanish. Students will continue to read, write, and speak Spanish on a more advanced level. Culture will also be emphasized through video and discussion.

- Prerequisite - A grade of "C+" or better in Spanish I, or written approval of the instructor.

SPANISH III/IV

This course is an independent study class. It is designed for the student who is highly motivated and can work independently on projects and assignment with very little teacher instruction. Students will be reading, writing and speaking Spanish on an advanced level. Special attention will be given to research. An emphasis on mastery of grammar tenses and structures is emphasized.

- Prerequisite - A grade of "A" in Spanish II and written approval from the instructor.

MATHEMATICS

PRACTICAL MATHEMATICS I

Practical Math is a 12th grade math class designed to teach students math skills that they will use

in everyday living. Topics to be covered include: basic non-calculator computations, estimation, percents, statistics, health and life insurance, salary, overtime pay, recreation and sports, basic purchases, income taxes, sales tax, checking and savings accounts, credit cards, loans, automobile expenses, transportation expenses, housing expenses, budgeting, investment options, trade industries and professions (carpentry, plumbing, electrical contracting, painting, masonry, advertising, health care, communications, manufacturing).

ALGEBRA I

This course will provide a study of: real number system, problem solving techniques, work with variables, polynomial expressions and equations, formulas, graphing on coordinate planes, word problems, radicals and extensive review of concepts.

- Prerequisites - successful completion of eighth grade math.

HONORS ALGEBRA I

Honors Algebra moves at a faster pace than Algebra I and requires recommendation of the 8th grade math instructors.

GEOMETRY

This course will cover: formal proofs, congruent triangles and polygons, similar figures, circles, coordinate geometry, surface areas, and volumes. Other content includes: basic constructions, perimeter, types of angles and lines, conditional statements, special types of quadrilaterals, and transformations.

- Prerequisite - Algebra I

HONORS GEOMETRY

Honors geometry moves at a faster pace than regular Geometry and requires the recommendation of the Algebra teacher.

ALGEBRA II

This course will cover: Equations solving for 1, 2, and 3 unknowns, special products and factoring, graphs of lines and quadratics, exponents and radicals, arithmetic and geometric sequences, permutations, combinations, probability, and matrices.

- Prerequisite - Algebra I, Geometry

FUNCTIONS, STATISTICS, AND TRIGONOMETRY (FST)

FST is the fourth course in the Chicago Math Series. It is a full-year course that consolidates the former one semester classes of Trigonometry and Advanced Math. It covers a wide scope of topics including: statistical data analysis, functions and modeling, transformations, trigonometry, probability, simulation, sequences and series, and binomial and normal

distributions. The class emphasizes reading and problem solving and makes extensive use of technology, especially graphing calculators (A TI - 85 or similar graphing calculator is strongly recommended).

- Prerequisite - Algebra, Geometry, and Advanced Algebra

PRE - CALCULUS & DISCRETE MATHEMATICS (PDM)

PDM is the fifth high school class in the Chicago Math Series. This course will cover a variety of topics including: the logic of mathematical arguments and solving equations; minima, maxima, range, domain and end behavior of functions; recursive and explicit formulas; summation notation; modular arithmetic; irrational numbers; rational numbers and equations; division of polynomials; complex numbers; trigonometric identities; polar coordinates; vectors; derivatives; graphs and circuits; and integrals. The class emphasizes reading and problem solving. It requires use of a graphing calculator. A TI=85 or similar graphing calculator is strongly recommended

- Prerequisite - FST

MUSIC

SENIOR BAND

Senior Band, a continuation of the Elementary and Junior Band programs, provides and opportunity for advances group instruction on all major wind and percussion instruments. The emphasis of instruction focuses on individual and group performance. The Senior Band functions as a marching band for selected parades and athletic contests, a concert band for performance of music of a more serious nature, and a pep band to provide entertainment and promote school spirit at various athletic events.

The many rehearsal and performance opportunities presented throughout the year are very valuable and important educational experiences; not an end in themselves or an added "frill", but a means toward meaningful and desirable qualities of character and life skills. Some of these qualities and skills are: skill to use and evaluate knowledge; desire for knowledge and continuing education; proper development of peer relationships; democratic principles and loyalty; development of moral and ethical responsibility; development of pride in achievements, of self-understanding, and positive self-worth; development of creative self-expression; and the ability to use leisure time productively and wisely.

- Prerequisites - Two years of Junior Band, or permission of the instructor

PHYSICAL EDUCATION

GYM I/HEALTH

This course is for 9th & 10th Graders. There will be a strong emphasis on team sports such as touch football, kickball, volleyball, basketball, badminton, track and field, table tennis and weight training. The High School Health is a one semester state required course. Students will acquire knowledge and skills that can be transferred to developing positive personal health behaviors. The course of study will have students exploring ways to improve their nutritional and physical health, consequences of alcohol, tobacco, and other drug use, social and emotional health issues such as violence protection, suicide & depression, communication skills and building positive relationships, disease prevention and screening including HIV/STD and

Adult/Child/Infant CPR.

GYM II

This course is for 11th & 12th grade students and is designed to give students the opportunity to participate in an individualized physical education program. Students will be able to develop their own program.

SCIENCE

EARTH SCIENCE

Earth Science is the study of the Earth and its relationship to the universe. It is concerned with Earth's materials, changes of the interior and surface, and the forces that cause these changes. Changes are interpreted within the context of plate tectonics, the unifying scientific principle of all of the physical Earth Sciences. Earth Science also examines the interaction between Earth's weather and climate, the changes of organisms through time (paleontology) as interpreted by organic evolution. Finally, a major division of Earth Science is astronomy, the study of our solar system, galaxies, the universe, and deep time. Earth Science is required for all ninth grade students and fulfills State of Michigan high school course requirements.

- Prerequisite – completion of 8th grade science

GENERAL SCIENCE

General Science will cover the main concepts covered on the Michigan Merit Exam (MME); life sciences, physical sciences, earth and space sciences, and integrated science. The MME test is not a test of how many details a person can memorize. Instead it is a test of how well a person understands some of the main concepts in science. The MME test is also a test that measures critical thinking abilities, such as, solving real life problems in science. It is the intent of the General Science course to teach the main concepts in these areas of science in accordance to the Michigan Merit Exam test.

- Prerequisite – completion of 9th grade science and Biology

CONSERVATION

Conservation is the study of the wise use of our natural resources. The principle areas of study include: freshwater ecology, terrestrial ecology, environmental pollution, fisheries management, soils, forestry, land use, solid waste and recycling, energy conservation and orienteering

- Prerequisite – completion of Biology with a C or higher

BIOLOGY I

General Biology is an introductory biology course. It is intended to prepare students for advanced high school biology or for college biological science courses. Course content consists of cell biology, genetics, evolution, the five kingdoms and ecology. Emphasis is placed on synthesis of information and written responses.

- Prerequisite – completion of 9th grade science

HONORS BIOLOGY

Honors Biology moves at a faster pace than regular Biology and requires the recommendation of the 9th grade science teacher.

CHEMISTRY I

Chemistry I is a general chemistry course that includes the classification and study of the composition of matter, principals of chemical reactions, energy, and the kinetic molecular theory. Chemistry is learned as a science; facts are gathered and arranged in meaningful patterns which reveal regularities that lead to the understanding of nature.

- Prerequisite - Algebra I

CHEMISTRY II

Chemistry II is an advanced chemistry course in which the major areas of study include: the scientific method, energy transfer, properties and changes of matter, understanding trends in the periodic table, classification of matter, heat and temperature, significant figures, stoichiometry, atomic theory, quantum numbers and atomic orbitals, electron configurations, chemical bonding, nomenclature, writing chemical equations for reactions, properties of common gasses, kinetic theory of matter, gas laws, phase diagrams, solutions, colligative properties, ions in aqueous solutions, acids and bases. There are extensive laboratory experiments in this class and students will learn to write lab reports in a manner similar to what is expected in a college chemistry class.

- Prerequisite - Satisfactory completion of Chemistry I

ANATOMY AND PHYSIOLOGY (Offered in alternating years with A.P. Biology)

Anatomy and Physiology is designed as an introductory course in anatomy and physiology and assumes no prior knowledge of the human body by the student. It is geared to students preparing for careers in health related professions, such as nursing and occupational therapy, physical therapy, medical technology, medicine, and dentistry. Because of its' scope, the course is also useful for students in the biological sciences, science technology, science education, and physical education programs.

- Prerequisite: A grade of "B" or better in General Biology or the recommendation of the General Biology instructor.

A.P. BIOLOGY (Offered in alternating years with Anatomy)

This course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. Some AP students, as college freshmen, are permitted to undertake upper-level courses in biology or to register for courses for which biology is a prerequisite.

The AP Biology course is designed to be taken by students after successful completion of a first course in high school biology and one in high school chemistry.

The AP Biology Development Committee conducts college curriculum surveys of introductory biology courses for biology majors and develops the AP Biology Examination so that it is representative of the topics covered by the survey group. Accordingly, goals have been set for percentage coverage of three general areas: I. Molecules and Cells, 25%, II. Heredity and Evolution, 25% III. Organisms and Populations, 50%.

- Prerequisite-Completion of Biology I with a grade of "B" or approval of the instructor.

PHYSICS

This course provides a mathematical, problem solving approach to the study of matter and

energy. Topics include mechanics, thermodynamics, wave theory, sound, optics, and electricity. Occasional demonstrations and lab work supplement the topics.

- Prerequisite - Algebra II. It is recommended that students should have taken trigonometry or be currently enrolled in trigonometry when taking physics.

AP ENVIRONMENTAL SCIENCE

The goal of this course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them.

Environmental science is interdisciplinary; it embraces a wide variety of topics from different areas of study.

The AP Environmental Science course is an excellent option for any interested student who has completed 2 years of a high school laboratory science. This course is usually taken in the junior or senior year.

- Prerequisites: Biology grade of B or better, Chemistry, Algebra

SOCIAL STUDIES

UNITED STATES HISTORY/GEOGRAPHY 1890 – PRESENT

This course will follow political, social, and economic changes that have occurred in the United States from the Age of Imperialism through the present time period. It will also concentrate on describing the unique culture of the United States, its places, environmental interactions, movement, and regions. The class is required for all freshmen beginning with the 2007/2008 school year.

CIVICS 10

The course is designed to provide students with a complete understanding of the American political and economic system. Students will become familiar with our core democratic values, especially the political process, checks and balances, and the importance of our freedoms guaranteed by the Bill of Rights and other amendments to our constitution. Students will understand the important aspects to our economy. They will gain knowledge about a market economy, the role of Supply & Demand, and Opportunity Cost (both for individuals and a nation). Students will know that scarcity affects the availability of products at a certain price. Economic principles and theory will be introduced and understood by students so they better realize what it takes to make our economy vibrant.

ECONOMICS

This course allows the student to gain an understanding of the forces that shape America's economics system and other systems throughout the world. They will understand how scarcity shapes opportunity cost, both for the individual and the nation. The student will gain insight that a global economy is causing competition for their education, and their jobs. Students will become familiar with the economic principles, the shape of our economy and predict behavior.

GOVERNMENT

This course is designed to provide the student with knowledge of the workings of our government. Students will be familiar with our three branches of government and the checks and balances designed to allow a smooth flow and prevent any branch from gaining too much power. They will gain knowledge about the political process and how men and women are chosen to represent districts in the U.S. House and Senate, along with the electoral process to choose a president. Knowledge of the Constitution is vital for this class.

WORLD HISTORY/GEOGRAPHY

World History is a required course for all juniors. The course is designed to investigate the development of the world's civilizations by studying their political and economical systems as well as their social, cultural, and religious contributions to history. Through this course the students will gain insight into past events and see how those events have led to current world situations. Units of study will include:

- “Five themes of Geography” which help to illustrate the link between history and geography: Location, Place, Human/Environment Interaction, Movement, and Region are covered.
- “Rise of Civilizations” will explore the “appearance” of early humans.
- “Flower of Civilizations” will focus on Ancient Greece and Ancient Rome.
- “Regional Civilizations” will take the students from the Byzantine Empire up to the Americas.
- “Emergence of the Modern World” will include the Renaissance and Reformation and their impact on civilizations.
- “Revolution” will look at how new technology led to the scientific revolution.
- “Rise of Industry and Nationalism” will begin with the Industrial Revolution, how political and social reform led to the rise of Nationalism and the development of great empires in Europe.
- “World in Conflict” will start with World War One and how the Treaty of Versailles ended the war and in effect caused World War Two.

CURRENT EVENTS – (Class of 2011 and beyond)

The course is designed to provide students with an understanding of what is going on in their world at a local, state, national and international level. They will become familiar with the issues that affect them and others. Seniors will be given material so they can more effectively make decisions about their future after high school. Economic and governmental decisions that affect them will be stressed. The fact that we live in a global economy where competitions for jobs and college can have consequences, even at a local level will be presented and learned.

PSYCHOLOGY

This is a one semester class that covers the science of the mind. Psychology encompasses all aspects (the how and why) of learning and how we perceive and respond to different stimuli in unique ways. It is what makes us human and helps us answer question such as why one person may be so different than others.

SOCIOLOGY

This is a one semester class that encompasses all aspects of social life. It is about how people

interact in their everyday lives under extraordinary circumstances. It is also about their thoughts, feelings, and ideas. Sociology seeks to answer the question, why are we like some others? Sociologists study the roles that we play in society and are trained to explain why people do what they do, like what they like, and think what they think. With this knowledge they can even predict human behavior in various situations.

INDUSTRIAL EDUCATION

MECHANICAL DRAWING/CAD

This course is in basic drafting techniques with problems designed to give the students an exploratory experience in this area of Industrial Arts. Students will be exposed to Computer Aided Design after learning the basics. This course is a necessary pre-requisite for all other drafting courses.

- Prerequisite - None

MACHINE WOODS

This course is designed to provide the student with a broad overview of woodworking. The areas that will be covered are how to safely use the power tools that are commonly used in the wood working area. Set up and adjustment will be covered.

A number of assigned projects designed to give the student a variety of experiences shall be required. The student may elect an additional project or projects of his or her choice when required projects have been completed.

ADVANCED WOODS

This course is designed to give students who performed well in machine woods and want to develop their skills to a higher level an opportunity to do so. The projects that are made by the students are expected to be more difficult and the finished product should show the advanced level of skill of the student. The class is primarily a lab situation and minimal classroom instruction is necessary.

- Prerequisite - Successful completion of Machine Woods.

METAL FABRICATION

This course is an introductory course in the welding area and also gives the students an overview of most of the manufacturing processes in the metal industry. The course includes hands-on operation in the welding area as well as in the bench metal area.

- Prerequisite - None although Mechanical Drawing/CAD is recommended.

POWER MECHANICS

This class is a basic course in power and transportation. Some automotive repair will be studied if time permits. The course will include basic electricity. Ohms law and Watts law and basic electronics are also covered. The theory of combustion, two and four stroke cycle engine theory, ignition systems, carburation, cooling systems, clutches and transmissions as well as model rockets and air planes are also covered.

- Prerequisites - None - designed for students in grades nine and ten.

CAD I

This course is designed to provide the student with an understanding of the features, limitations, and considerations associated with the operation of a Microcomputer-based CAD system. Students will gain valuable hands-on experience using AutoCAD micro based software, microcomputers, input devices such as digitizers and output devices such as pen plotters and printers. The proper use of each hardware component is covered near the beginning of the course as well as the use of the necessary MS DOS commands to insure effective and efficient management of files. Proper use and management of both hard and floppy disk systems is also covered. The course presents logical step-by-step instruction about the AutoCAD commands, mode settings, drawing aids, shortcuts, and other valuable characteristics of AutoCAD. Exercises in multi-view drawings, sectioning, dimensioning, isometric projection, fasteners, parallel line development and working drawings are incorporated into the course so as to enable the student to gain additional knowledge of proper drafting standards and techniques.

- Prerequisites - Mechanical Drawing

CAD II

This course is designed to provide an opportunity for the student to enhance his or her skills in the use of AutoCAD. More extensive use of ANSI dimensioning practices, fits, tolerancing and fasteners, as well as basic principles of descriptive geometry will be incorporated.

The student will also have the opportunity to explore and learn AutoCAD's 3D modeling capability, architectural house design and construction methods.

Flexibility rather than a rigid format will be the rule for this course. The student will be restricted only by his or her own limitations. Students will be encouraged to be creative in their search for more productivity.

Prerequisites - Enrollment in the course will require successful completion of CAD I with a grade of "C" or better.

VOCATIONAL COURSE OFFERINGS

EARLY CHILDHOOD EDUCATION (CTE)

Students enrolled in this program will develop skills in the Early Childhood field that will enable them to work in preschools, day care centers, and early elementary programs. Training will take place in actual early childhood environments where knowledge of child growth, development, and observation techniques can be achieved. Students will be introduced to Child Development Associate (CDA) assessment, and course work will meet CDA requirements. State licensing requires that all students meet specific standards of age, health and character. Early Childhood Education provides an excellent foundation for careers in Education, Pediatrics, Psychology and Social Work.

- Prerequisite-Junior or Senior Standing

MEDICAL AIDE

Students in grade 11 & 12 are offered the course of Medical Aide. The course curriculum covers 340 instructional hours divided between classroom lecture, laboratory practice and clinical experience. Students will acquire basic knowledge and functional skill levels in areas of communication, documentation, ethical and legal responsibilities, safety practices, teamwork, client interaction, assessment, planning, implementation and management of the client care plan,

personal care tasks, and assisting in attaining and maintaining clients functional independence. The skills and knowledge attained in this course can be transferable to entry-level skills for other health occupations. Upon successful completion of the medical aide course students will be eligible to take the State of Michigan clinical skills and written exams within the next year. Students who pass both sections of this examination become registered Competency Evaluated Nurse Assistant and can be employed in a variety of medical facilities such as long-term care or home health on or after their 18th birthday. Students also join HOSA, the Health Occupation Students of America.

- Please be advised that there are costs associated with this course.
- 1 - Uniform-pants-top & white leather shoes-approximately\$50.00.
- 2 - Testing fees at the end of the year-\$176.50.

BUILDING TRADES

Students in grads 11 & 12 offered the course of Building Trades. This class is 3 hours long and is taken in Baraga.