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## Educational Development Plan (EDP)

*Each student is required to begin an EDP at the end of his or her 7<sup>th</sup> grade year. Their EDP will be updated each year after that. The EDP will include a career pathway, a four-year plan for high school based on that pathway, postsecondary plans, hobbies, interests, extracurricular activities, career goals, and career exploration activities.*

*The EDP will also be used to register students for their classes each school year. The EDP is done online at [www.careercruising.com](http://www.careercruising.com). Students must have an Acceptable Computer Use form on file to access it at school. Parent signatures will be required on 8<sup>th</sup> grade EDPs.*



## GRADUATION REQUIREMENTS

### Class of 2011 - 2013

#### Required English Credits (4)

- English 9 A & B
- English 10 A & B
- English 11 A & B
- English Electives or Honors English A & B

#### Required Math Credits (4)

You must take the first 3 of the following and take a 4<sup>th</sup> credit in the senior year:

- Algebra I XA & XB
- Geometry A & B
- Algebra II A & B
- Business Math A & B
- PreCalculus A & B
- Calculus A & B
- MOCC Math elective

Required Science Credits (3) Combination of these courses depending on staff recommendations and testing.

- Introductory Chemistry
- Chemistry I
- Physics I
- Earth Science I
- Biology I A & B
- Chemistry A & B or Physics A & B

#### Required Social Studies Credits (3.5)

- American History A & B
- World History A & B
- U.S. & World Geography (.5)
- Civics (.5)
- Economics (.5)

#### Required Physical Education Credit (1)

- Physical Education 9 (.5)
- Health & Wellness(.5)

#### Required Computer Credit – (1)

- Computer Literacy (.5)
- MME Prep (.5)

Visual, Performing, & Applied Arts (1)

Take 1 credit in **one** category of arts, such as Band, Concert Choir, or Art, Industrial Arts, Career Center programs.

Elective Credits (9.5) – This requirement is met by taking any combination of classes in the following areas: Business, Band, Art, Foreign Language, Industrial Arts, Life Management, Other Electives, Career Center program, or other Core Classes above the required amount.

**Students must also take a state assessment such as the MME or MI-Access for graduation.**

**TOTAL CREDITS – 27**

## RECOMMENDATIONS FOR COLLEGE-BOUND STUDENTS

English Credits (4).

Math Credits (3). Should include Algebra II. Four credits highly recommended.

Biological/Physical Science Credits (2). Three (3) credits strongly recommended including one (1) credit each of biological and physical sciences.

History/Social Sciences Credits (3). One (1) credit each of American and World History recommended.

Students are also encouraged to take the following:

Foreign Language Credits (3).

Fine/Performing Arts Credits (2)

Computer Literacy (1)

## MICHIGAN MERIT EXAM

Students will be required to take the Michigan Merit exam as Juniors. The MME will consist of the ACT plus Writing, WorkKeys Applied Math, Reading for Information and Locating Information, and Michigan developed tests in Science & Social Studies. The MME will be the qualifying test for the Michigan Promise Scholarship. Juniors who qualify for this scholarship (scoring a level 1 or 2) will be exempt from taking exams as a senior.

## CREDITS

Credits are earned for the successful completion of a class. Each class at Morley Stanwood High School is worth one half (.5) credit each trimester unless specifically stated otherwise. A student who successfully completes five (5) classes each trimester will earn seven and a half (7.5) credits a year. Students completing fifteen (15) classes a year can graduate from Morley Stanwood with thirty (30) credits. **A student must earn at least a C- grade in MSHS classes to earn credit.** All students are encouraged to maximize the learning opportunities available to them during high school by enrolling in as many challenging courses as possible.

## DUAL ENROLLMENT

Morley Stanwood High School allows their students, while attending high school, to also attend classes at Ferris State University or take online classes through Mid-Michigan Community College in an effort to meet student's needs and interests. This is called "dual enrollment".

- The student must be a junior or senior
- The student must have a 3.2 GPA for FSU
- The postsecondary courses for which state school aid funds are used must not be offered by the district.
- A student must take the PLAN or PSAT and get a qualifying score or have a qualifying ACT or MME score
- Students are responsible for transportation and must purchase their own textbooks.
- Classes can be taken for college credit, high school credit or both.

## ADDING AND DROPPING A CLASS

Since Morley Stanwood students have the opportunity to select their classes during registration, it is felt that they are choosing courses of interest to them. Consequently, they should be willing to put forth the time and effort it takes to succeed in a particular course of study.

**Dropping of classes will only be done for elective classes that the student did not sign up for on their EDP or if a student needs to repeat a class.**

## TESTING OUT

Students may test out to waive a course by showing competency in that course material. The intent of this policy is to allow students the opportunity to test out of a course for which they feel they already possess the knowledge or skills to pass. Students who earn a 78.5% or better on the testing out exam of a course will be considered to have met course completion requirements associated with that course. Students will receive credit for the course.

## GRADUATION HONORS

Beginning with the Class of 2011, students will no longer be recognized with the titles of Valedictorian, Salutatorian, and Honor Student. Senior ranking of students will be calculated as follows:

$$(GPA*250) + (ACT*27.778) = \text{Rank Score.}$$

Students will be placed in the following categories according to their rank score:

Highest Honors: 1700 & Up (gold stole)  
High Honors: 1550 – 1699 (blue stole)  
Honors: 1400 – 1549 (white stole)

# NCAA CLEARINGHOUSE

Any athlete, who would like to play a Division I or Division II sport as a college freshman must be certified by the National Collegiate Athletic Association (NCAA). Anyone wishing to participate in a Division III or Community College sport does not have to meet these qualifications.

**To be certified by the Clearinghouse, you must:**

**Graduate from high school.**

You should apply for certification before graduation if you are sure you wish to participate in athletics as a freshman at the college to which you will be admitted. The Clearinghouse will issue a preliminary certification report when you have had all your materials submitted. After you graduate, if your eligibility information is requested by a member institution, the Clearinghouse will review your final transcript to make a final certification decision according to NCAA standards.

**For the Class of 2008 or later**

**Successfully complete a core curriculum of at least 16 academic course units:**

**Core Units Required for NCAA Certification**

	Division I	Division II
<b>English Core</b>	4 years	3 years
<b>Math Core (at the level of Algebra I or above)</b>	3 years	2 years
<b>Science Core (including at least one lab course)</b>	2 years	2 years
<b>Social Science Core</b>	2 years	2 years
<b>From English, Math, or Science</b>	1 year	2 years
<b>Additional Core</b> (English, Math, Science, Social Science, Foreign Language, Computer Science, Philosophy, Nondoctrinal Religion)	4 years	3 years
<b>TOTAL CORE UNITS REQUIRED</b>	16	14

**Have a core-course grade-point average (based on a 4.0 scale) and a combined score on the SAT verbal and math sections or a sum score on the ACT based on the qualifier index scale below: (Division I)**

Core GPA	ACT Sum	RC SAT
3.55 & >	37	400
3.40	42	460
3.25	46	520
3.00	52	620
2.85	56	680
2.70	60	730
2.575	65	790
2.40	71	860
2.325	74	890
2.300	75	900
2.275	76	910

Core GPA	ACT Sum	RC SAT
2.250	77	920
2.225	78	930
2.200	79	940
2.175	80	950
2.150	80	960
2.125	81	960
2.100	82	970
2.075	83	980
2.050	84	990
2.025	85	1000
2.000	86	1010

**For Division II, have a combined score on the SAT verbal and math sections of 820 or a 68 sum score on the ACT with a 2.0 GPA.**

# BUSINESS EDUCATION

## COMPUTER LITERACY

**Prerequisite:** Required – Sophomores

This course uses Microsoft Office software, which is a state-of-the-art program to teach word processing, database, spreadsheet, and graphic presentation. These programs integrate with each other and allow the maximum proficiency in home, office, and professional computing. The course will give students an advantage in the business world, in college, or in whatever area they plan to pursue. The class will be approached from a business standpoint concerning attitudes, responsibility, manners, accuracy, and proper behavior. Getting along with each other in a working environment will be stressed

## GENERAL BUSINESS

**Prerequisite:** None

During a lifetime, it is likely that a person will work for and/or own a private business. The objectives of this class is to help students form a more meaningful and beneficial interaction with business. Some topics that will be covered include entrepreneurship, marketing and advertising, finances, and skills needed to become a successful employee/employer. In addition, area small business owners will be invited to speak to the class throughout the year.

## ACCOUNTING I A

**Prerequisite:** Junior or Senior Status

Accounting is the “language” of the business world. It is a valuable course for seeking a foundation on which to continue studying business in college or for those that are going to be entering the work force. The students will be introduced to the accounting cycle. Areas of study include: general journals, special journals, subsidiary ledgers, check writing, and financial statements. Students will complete a business simulation, which involves journalizing, posting and end of period financial statements. In addition, computers will be used to study the automated accounting process.

## ACCOUNTING I B

**Prerequisite:** Junior or Senior Status; Successful Completion of Accounting I A

This class is a continuation of Accounting 1A. Students will continue on with the accounting cycle for a merchandising business organized as a corporation.

Case studies and computer simulations will be used to enhance the skills needed to be successful in the field of business and accounting.

## ACCOUNTING II A

**Prerequisite:** Accounting I B, Teacher Approval

This class is for students who have successfully completed Accounting 1A and 1B and want to continue the accounting process. Additional areas of study will include payroll, taxes, and inventory. This class will be student-paced and very independent. This is for students that are self motivated and seeking additional education in the business area.

## ACCOUNTING II B

**Prerequisite:** Accounting II A

This class is designed for the highly self-motivated student desiring to study the accounting process in great depth. It is a continuation of the Accounting II A class. This is an excellent class to prepare someone who is thinking of majoring in the business field in college.

## PUBLISHING A

**Prerequisite:** Junior/Senior Status  
By Application Only

This class will be one trimester in length and will be worth one half credit of business. Students in this class will have the responsibility of selling advertisements for the yearbook and will produce the district newsletter and athletic programs during this trimester. This class will involve student drivers/riding with student drivers. Good attendance and team work are essential for accomplishing our advertising goals.

## **PUBLISHING B**

**Prerequisite: Sophomore/Junior/Senior Status  
By Invitation Only**

This class will be one trimester in length and will be worth one half credit of computers. Students in this class will have the responsibility of producing the yearbook, the district newsletter, and athletic programs. In doing so, the students will expand their knowledge in desktop publishing (emphasis this semester), photography (use of digital cameras), and writing copy. The students will learn responsibility by working to meet deadlines. Good attendance and teamwork are essential for producing the final products. *Students taking this class should also be taking Publishing C.*

## **PUBLISHING C**

**Prerequisite: Sophomore/Junior/Senior Status;  
Successful Completion of Publishing  
B and/or Teacher Approval**

This class will be one trimester in length and will be worth one half credit of English. Students in this class will have the responsibility of producing the yearbook, the district newsletter, and athletic programs. In doing so, the students will expand their knowledge in desktop publishing, photography (use of digital cameras), and writing copy (emphasis this semester). The students will learn responsibility by working to meet deadlines. Good attendance and teamwork are essential for producing the final products. *The half credit of English earned in this class may not be used as part of the four required English credits. It is meant to be an additional English credit.*

## **MULTIMEDIA**

**Prerequisite – Junior/Senior Status; Successful  
Completion of Computer Literacy**

This course will be one trimester in length and worth one half computer credit. Students in this class will explore the PowerPoint software extensively. Students will be required to present to the class using this software. Students will also be exposed to web design and will create a variety of web pages using given guidelines.

# ENGLISH

## ENGLISH 9 A

**Prerequisite: Freshman - Required**

English 9 will emphasize improving student writing skills and reading comprehension. Students will learn effective sentence and paragraph structure by writing a variety of papers/essays. Correct grammar, spelling and mechanics are stressed through writing and exercises. Students will read short stories and novels. Reading will be encouraged at home as well as in class. Also included in English 9A will be the components of the communication process and public speaking. Students will be expected to organize and give different types of speeches throughout the trimester. Students will also study poetry and mythology.

## ENGLISH 9 B

**Prerequisite: Freshman – Required;**

English 9B will be a continuation of 9A. The writing process will be explored in more depth through essays. Speech presentation and reading comprehension will continue. Elements of the short story will be further studied. Students will also explore a Shakespeare unit.

## ENGLISH 10 A

**Prerequisite: Sophomore - Required**

This course will incorporate units in grammar, the 6 traits of writing process, and elements of the short story. Included in the requirements for this class will be various essays, research papers and daily journals. In class reading and the communication process will also be stressed.

## ENGLISH 10 B

**Prerequisite: Sophomore - Required**

This class is a continuation of English 10 A and will include the writing process throughout the trimester. Additionally, the course will introduce the study of the novel, a Shakespeare unit, and poetry. Students will be expected to have a firm understanding of basic grammar and the writing process.

## ENGLISH 11A

**Prerequisite: Junior – Required**

This course will enable students to gain experience in several elements of English: reading, writing, speaking, and listening. Students will learn about the communication process and be expected to complete several speeches. Outlining, time management, and listening skills will be emphasized. In addition, students will expand their knowledge of the writing process through the completion of various paragraph and essay writings.

## ENGLISH 11 B

**Prerequisite: Junior - Required**

This course will continue integrating the use of reading, writing, speaking, and listening. Students will have the opportunity to further improve their public speaking skills by completing at least two major speeches; one will be informative and the other will be persuasive. Along with the essay writing and the communication process, story elements and the exploration of the short story and novel will be incorporated.

## GREAT LITERATURE

**Prerequisite: Junior/Senior Status;  
Successful Completion of  
English 10 B**

This course will be one trimester in length and will be worth one half credit of English. This course will explore classic and contemporary literature. Students will be expected to discuss, reflect, interpret, and analyze the content and conflicts and themes of several different works, with particular attention given to the novel. Connections will be made between reading and writing, and students will gain knowledge of literary terms as well.

## **SHAKESPEARE**

**Prerequisite: Junior/Senior Status; Successful Completion of English 10 B**

This class is designed for the Shakespeare lover at heart. It will offer the student an opportunity to study four or more major plays. They will explore Shakespeare's view of comedy, history and tragedy. Students will be expected to read, interpret, and analyze the various plays that are covered in the class. The students will also have the chance to explore and study some of the Bard's many sonnets and themes they encompass.

## **MYTHS AND LEGENDS**

**Prerequisite: Junior/Senior Status; Successful completion of English 10B**

This class will study the various Greek and Roman myths. Norse and Celtic mythologies will also be explored. Students will be given the opportunity to study the Arthurian Legends through film and literature. Writing and reading will be stressed throughout the trimester and various essays and unit projects will be integrated. Two epic poems are required reading material as well.

## **PORTFOLIO WRITING**

**Prerequisite: Junior or Senior Status; Successful completion of English 10 B**

This course will enable students to create and complete a professional portfolio, which will serve to highlight students' positive talents and abilities. Because colleges and/or future employers may require a portfolio, this class will help students to organize their credentials and realize their personal strengths. Life-long skills will be stressed, along with resume writing, and career research.

## **CREATIVE WRITING**

**Prerequisite: Junior or Senior Status; Successful completion of English 10 B**

This class requires the maintenance of a portfolio which will include: quick-writes, news, journals, string savers, daily logs, lesson notes, and writing time. The student will also participate in a writer's circle where you will read, comment and discuss various drafts of papers. A variety of writing genres will be incorporated.

## **HONORS ENGLISH A**

**Prerequisite: B or better in all previous English**

## **classes, Junior or Senior Status**

This class is designed to be a more advanced, in-depth and faster paced course, which will expose students to many of the demands that will be made of them in the college level writing class. Students will expand upon their knowledge of the writing process as they explore various types of essays, analysis and research. Presentation of their research project will be addressed using multimedia

## **HONORS ENGLISH B**

**Prerequisite: Junior/Senior Status**

Honors English B is a continuation of Honors English A. It too, is designed to be a more advanced, in-depth and faster paced course, which will expose students to many of the demands that will be made of them in the college level literature class. This trimester will include extensive exploration of the classic novel, including comprehension and analysis.

# FINE ARTS

## HIGH SCHOOL BAND (36 weeks)

**Prerequisite:** Former instrumental instruction (on traditional band instruments) or permission from the director.

High School Band is a performance-driven class with an emphasis on musical expression and interpretation. The band curriculum is scheduled on a yearly basis and must be taken for the entire year (36 weeks). Students will learn to work as a group, develop leadership skills, and become a better musician. Concerts outside of school hours are mandatory and are graded. Performances throughout the year include a competitive marching show, concert music of all genres, solo ensemble festivals, honors band opportunities, pep band, MSBOA Festivals, holiday and spring arts concerts, commencement, and Memorial Day.

**This class may be taken each year for credit.**

## CONCERT CHOIR

**Prerequisite:** Former Member or Informal Audition

Concert Choir is a performance-driven class with an emphasis on musical expression and interpretation. The choir curriculum is scheduled on a yearly basis and **must** be taken for **ALL 3 TRIMESTERS**. Students will learn to work as a group, develop leadership skills, and become better musicians. Concerts outside of school hours are mandatory and graded. Performances throughout the year will include concert music of many genres, Solo & Ensemble Festival, Honors Choir opportunities, MSVMA Festival, Holiday and Spring concerts, and special engagements.

**This class may be taken each year for credit.**

## ART I

**Prerequisite:** None

Basic art techniques and fundamentals will be learned and practiced through drawing, painting, sculpture, portraiture, and design. Students will create two and three dimensional projects emphasizing individual expression using pencil, charcoal, pen and ink, chalk, paint as mediums.

## DRAWING TECHNIQUES

**Prerequisite:** Art I

This is an extension of Art I drawing methods and mediums. We will explore drawing techniques, lighting techniques, and mediums such as pencil, chalk, charcoal, graphite, pastel, and colored pencil. Students will be introduced to new drawing procedures, as well as excelling and mastering portraiture, still-life, landscape, and others.

## PAINTING I

**Prerequisite:** Art I

This class will deal with learning and practicing painting techniques. Students will be exposed to various painting mediums including acrylic paint, water color, and oil paint. There will be a class fee of \$7.00 for painting supplies.

## PAINTING II

**Prerequisite:** Painting I

This upper level painting class will expand upon the techniques of painting I. Students will be encouraged to develop and improve their own style as well as experiment with new methods. Students will focus in the area of oil painting and work with on a larger scale. There will be a class fee of \$7.00 for painting supplies.

## SCULPTURE I

**Prerequisite:** Art I

This course will deal with three-dimensional work using a variety of media. Students will learn basic sculpting techniques using the mediums of wire, paper mache, plaster, and clay. There will be a \$10.00 fee for sculpture materials.

## **SCULPTURE II**

### **Prerequisite: Sculpture I**

This course is an extension of Sculpture I and will work with three dimensional materials and concepts. Students enhance and explore sculpting techniques using the mediums of wire, paper mache, plaster, and clay. There will a \$10.00 fee for sculpture materials.

## **FUNDAMENTALS OF PHOTOGRAPHY**

### **Prerequisite: Art I, Junior or Senior Only**

This beginner black and white photography class is designed for the amateur photographer who wants to learn the photo process from the ground-up. Using SLR cameras we will be learning proper picture taking techniques, focus, aperture, depth of field, proper lighting, and more. Also, students will learn how to develop film and develop their own prints in the dark room setting. To cover photography supplies the materials fee for this class will be \$15.00.

## **ADVANCED PHOTO PROCESS**

### **Prerequisite: Fundamentals of Photography, Junior or Senior Only.\***

In this upper-level black and white photography class we will expand upon simple photo techniques and processes. Students will learn alternative picture taking and photo developing techniques to enhance photography skills to a new level. To cover photography supplies the materials fee for this class will be \$15.00.

## **MUSIC COMPOSITION**

### **Prerequisite: None**

Music Composition is all about learning to create your own music even if you don't have any prior musical training. At the end of the trimester you will have created your own CD of the music YOU wrote. Much of the work will be done on the computer so you do not need to be able to play an instrument but instruments are more than welcome. You will choose the style of the music you wish to create whether it's pop, rock, country, rap, vocal, instrumental, etc.... It's all about your creativity!

# FOREIGN LANGUAGES

**Note: A & B courses will take up two trimesters (24 weeks).**

## **GERMAN I A & B**

**Prerequisite: None**

Upon completion of this course, students will have acquired listening and comprehension skills in the target language. In addition, they will be able to communicate with each other and express their ideas in the target language. These skills are the foundation that subsequent skills will be built on. They will be able to show mastery of these skills through drawing, speaking, and other non-verbal techniques.

## **GERMAN II A & B**

**Prerequisite: German I A & B**

Students will continue to develop their ability to communicate in the target language. Although speaking in the target language continues to be the main focus, there is an increased emphasis placed on reading and writing.

## **GERMAN III A & B**

**Prerequisite: German II A & B**

This foreign language class is designed to increase the student's ability to communicate in the foreign language. More complex and sophisticated materials will be used to teach vocabulary, reading, and writing.

## **GERMAN IV A & B**

**Prerequisite: German III**

This course is designed to prepare the student for advanced placement on a college level. Grammatical principles of the foreign language are stressed.

## **SPANISH I A & B**

**Prerequisite: None**

Upon completion of this course, students will have acquired listening and comprehension skills in the target language. In addition, they will be able to communicate with each other and express their ideas in the target language. These skills are the foundation that subsequent skills will be built on. They will be able to show mastery of these skills through drawing, speaking, and other non-verbal techniques.

## **SPANISH II A & B**

**Prerequisite: Spanish I A & B**

Students will continue to develop their ability to communicate in the target language. Although speaking in the target language continues to be the main focus, there is an increased emphasis placed on reading and writing.

## **SPANISH III A & B**

**Prerequisite: Spanish II A & B**

This foreign language class is designed to increase the student's ability to communicate in the foreign language. More complex and sophisticated materials will be used to teach vocabulary, reading, and writing.

## **SPANISH IV A & B**

**Prerequisite: Spanish III**

This course is designed to prepare the student for advanced placement on a college level. Grammatical principles of the foreign language are stressed.

# INDUSTRIAL ARTS (TECHNOLOGY)

## GENERAL SHOP

**Prerequisite: None**

This course consists of exposure and experimentation in the following areas of shop work: woodworking, woodturning, machine operation, shop safety, tool identification, and terms. This class is required of students prior to taking Shop Technology. Students are required to pay for materials used in the construction of projects, which they may keep.

## SHOP TECHNOLOGY

**Prerequisite: General Shop with a C- or Better**

This course will focus on the student-built project which will include a drawer, door, or combination of the two. Contents of the class include: safety practices, machine operations, safety review, planning of projects, fasteners, wood joints, machine parts and changing blades. Students are expected to participate fully. Students are allowed to bring their own supplies or purchase their wood from the high school.

## ADVANCED WOODWORKING

**Prerequisite: Shop Technology with a C- or better**

The advanced shop students will complete projects commensurate with their ability level, requiring planning, problem solving skills, knowledge of woodworking machines, project construction, finishing, wood joinery, participation in shop organization, cleanup, maintenance, and recording project progress. Projects should include a door and a drawer and instructor approval. Students will be expected to participate fully. Project fees will vary due to changing wood prices. Students may bring in their own wood and supplies.

## INTRO TO DRAFTING

**Prerequisite: None**

This class is designed to prepare students for more specific study in either mechanical drafting (the drawing of parts) or architectural drafting (the drawing of houses and structures). It is intended to introduce students to the fundamentals of drafting on the drawing board. It will include: measurement skills, line-work quality, line-types, lettering, basic dimensioning, sketching, multi-view drawing, isometrics and basic geometry. The students will complete drawings in each of these areas designed to teach these concepts.

## ARCHITECTURAL DRAFTING

**Prerequisite: Intro to Drafting with a C- or Better**

In this course the student completes the necessary plans for the construction of a home. The plans will include: a plot plan, a floor plan, a foundation plan and details, door/window schedules, wall sections, an electrical plan, 4 elevations, a pictorial presentation and if time allows, a plumbing plan. Further studies will focus on blueprints and terms used in architectural drafting.

## MECHANICAL DRAWING

**Prerequisite: Intro to Drafting**

This course will focus on the fundamentals of mechanical drafting, board drafting techniques, drawing of mechanical parts, terms and a touch of solid works (CAD). Content areas included are: drafting careers, sketching, design, drafting equipment, basic drafting techniques, geometry for drafting, multi-view drawing, dimensioning, section views, auxiliary views, fasteners, pattern development, working drawings and if time allows, cams and gears.

# **LIFE MANAGEMENT**

## **FOOD SCIENCE/NUTRITION**

**Prerequisite: None**

This course deals with the importance of proper nutrition and its relationship to a healthy body. Students learn to select, prepare and serve various kinds of foods, how to budget, and plan meals to meet nutritional standards and shop wisely.

## **PERSONAL AND FAMILY LIVING**

**Prerequisite: Junior or Senior Status**

This course deals with identifying personal goals and personal priorities, communication skills within personal relationships and families, conflict resolution and the importance of a positive self-image. This course also deals with topics such as mate selection, dealing with personal and family crises, ways of keeping a family strong and prepares students to maximize themselves and expand their achievements through personal growth and development.

## **ON YOUR OWN**

**Prerequisite: Junior or Senior Status**

Very soon you will be "On Your Own". What skills will you need to succeed? This course is a guide to help the young adult adjust to independent living. Topics such as owning vs. renting housing, household management, job-hunting skills, getting along with bosses and co-workers, money management responsibilities, insurance, transportation and the services that are offered by government agencies are some of the areas that will be covered.

## **PARENTING AND CHILD DEVELOPMENT**

**Prerequisite: None**

This course deals with the importance of prenatal care, roles of a parent, theories of child development, child abuse and neglect, evaluating parental responsibilities, and child welfare. Also, human development from conception through the birth process is examined.

## **PERSONAL/HOME SEWING**

**Prerequisite: Food Science/Nutrition or On Your Own or by Teacher Invitation**

In this course students will use sewing machines, irons and ironing boards, scissors and rotary wheels, rulers and cutting mats, and other basic sewing supplies to construct and repair clothing, design and embellish home fashions, and create a stuffed toy or pillow. If you are interested in fabric arts, costume design and construction, or fashion retail as well as the above projects, then this is the class for you.

## **FUN WITH FOOD**

**Prerequisite: None**

Students will explore alternatives in dietary and nutritional management, for example: planning vegetarian menus, diabetic diets, and weight loss/gain meals. Students will use both large and small appliances to prepare sample foods to meet nutritional requirements of above mentioned meal plans.

# MATHEMATICS

## ALGEBRA I XA

Algebra I XA is the first trimester of a 24 week long Algebra I course. This class is intended for students who have a strong background in the fundamentals of mathematics and wish to continue their post high school training or education. It is important to understand that this class will be taught at a faster pace (24 weeks), than the equivalent combination of Algebra I A, I B and I C which is taught over 36 weeks. Algebra I XA involves the usage of many mathematical principles and concepts through their applications, with the emphasis in the reading and writing of mathematics, through a wide variety of problem-solving exercises. Topics covered include the introduction: solving equations, functions, graphing and solving linear equations, systems of linear equations, introduction to functions, graphing and solving linear equations and systems of linear equations and their graphs.

## ALGEBRA I XB

**Prerequisite:** Algebra IXA

Algebra I XB is the second trimester of a 24 week long Algebra I course. This class is intended for students who have a strong background in the fundamentals of mathematics and wish to continue their post high school training or education. It is important to understand that this class will be taught at a faster pace (24 weeks), than the equivalent combination of Algebra I A, I B and I C which is taught over 36 weeks. Algebra I XB involves the usage of many mathematical principles and concepts through their applications, with the emphasis in the reading and writing of mathematics, through a wide variety of problem-solving exercises. Topics covered include quadratic functions, polynomial equations, exponential and exponential functions, radical and rational expressions and functions and a variety of other topics.

## GEOMETRY A

**Prerequisite:** Successful completion of Algebra I

Geometry A is the first trimester of a 24 week long Geometry course. Geometry involves the usage of many mathematical principles and concepts through their applications, with the emphasis in the reading writing and logic of mathematics. In particular geometry focuses on planar and three dimensional geometric figures and their mathematical relationships. Topics covered include tools of geometry; reasoning and proof; lines, angles and triangles and their relationships; quadrilaterals and their congruencies.

## GEOMETRY B

**Prerequisite:** Geometry A

Geometry B is the second trimester of a 24 week long Geometry course. Geometry involves the usage of many mathematical principles and concepts through their applications, with the emphasis in the reading writing and logic of mathematics. In particular geometry focuses on planar and three dimensional geometric figures and their mathematical relationships. Topics covered include the determination of area, surface area and volume of two and three dimensional figures respectively. Additional topics include circles and their associated properties; an introduction to trigonometry; geometric ratios and proportions.

## ALGEBRA II A

**Prerequisite:** Successful completion of Geometry

Algebra II A is the first trimester of the 36 week Algebra II course. Algebra II is an extension of Algebra I. This is an advanced math class providing an in-depth look into the algebraic world. Topics included in the first trimester are functions, equations and graphing; linear systems; and matrices.

## ALGEBRA II B

**Prerequisite:** Algebra II A

Algebra II B is the second trimester of the 36 week Algebra II course. Algebra II is an extension of Algebra I. This is an advanced math class providing an in-depth look into the algebraic world. Topics included in the second trimester are quadratic equations and functions; polynomial and polynomial functions; radical functions and rational exponents; exponential and logarithmic functions; and rational functions.

## PRECALCULUS A

**Prerequisite:** Successful completion of Algebra II

Precalculus A is the first trimester of a 24 week Precalculus course. This class is intended for students who have a strong background in mathematics and intend to continue their post high school training or education. Pre-Calculus A investigates various types of functions, which include but are not limited to polynomial, exponential, logistic and logarithmic. Topics will also include trigonometric functions.

## **PRECALCULUS B**

**Prerequisite: Precalculus A**

Precalculus B is the second trimester of a 24 week Precalculus course. This class is intended for students who have a strong background in mathematics and intend to continue their post high school training or education. Precalculus B investigates vectors, analytic trigonometry, parametric equations, polar equations; systems and matrices; analytic geometry; discrete mathematics and other additional topics.

## **CALCULUS A**

**Prerequisite: Successful completion of Precalculus**

Calculus A is the first trimester of a 24 week Calculus course. This course is intended for students who have a strong background in mathematics and intend to continue their post high school training or education. Calculus A investigates limits, derivatives, implicit differentiation and their applications.

## **CALCULUS B**

**Prerequisite: Calculus A**

Calculus B is the second trimester of a 24 week Calculus course. This course is intended for students who have a strong background in mathematics and intend to continue their post high school training or education. Calculus B investigates integration and its applications.

## **BUSINESS MATH A**

**Prerequisite: Counselor Recommendation  
Senior Standing (Class of 2011-12)**

Business Math A is the first trimester of a 24 week Business Math course. This course is intended for seniors to review and practice basic real world mathematic skills. Topics include personal finance and fundamental money management skills for today's competitive market place.

## **BUSINESS MATH B**

**Prerequisite: Business Math A**

Business Math B is the second trimester of a 24 week Business Math course. This course is intended for seniors to review and practice basic real world mathematic skills. Topics include small business management, manufacturing, accounting, marketing and corporate planning.

# PHYSICAL EDUCATION

## HEALTH AND WELLNESS

**Prerequisite: Required – Freshmen**

This class is designed for freshmen, and is required for graduation. This course includes topics in personality, self-esteem, alcohol and the prevention of other drugs, violence awareness, nutrition, reproductive health, and HIV/AIDS. In accordance with state law, parents have the choice of opting their son/daughter out of any topic with sexual information.

**SPECIAL NOTE: STUDENTS MAY NOT HAVE MORE THAN ONE PHYSICAL EDUCATION CLASS EACH TRIMESTER!**

## PHYSICAL EDUCATION 9

**Prerequisite: Required - Freshmen**

This class is specifically designed for all Freshmen. This physical education class will incorporate a variety of fundamental skills needed for team sports, along with an introduction in physical fitness. Sports being covered are badminton, basketball, bowling, flag football, floor hockey, softball, volleyball, tennis, weight training, aerobics and archery.

## FREE WEIGHT TRAINING

**Prerequisite: Sophomore, Junior, Senior Status**

This class is designed for the advanced and serious student wishing to explore areas of his/her muscular and cardiovascular fitness. This student will exclusively use free weights.

## NAUTILUS & CIRCUIT TRAINING

**Prerequisite: Personal Fitness I**

This class is designed for the student wishing to concentrate on muscle tone and cardiovascular fitness. The student's emphasis will be on using the nautilus equipment. This is great for students wishing to firm their muscles through muscular endurance.

## LIFETIME SPORTS

**Prerequisite: Personal Fitness I**

This course will introduce students to individual as well as team sports. These experiences will create a healthy and positive lifestyle that can be carried over to adulthood. Areas to be covered will include physical fitness as well as a review of the rules and fundamental strategies in: soccer, flag football, volleyball, badminton, basketball, bowling, floor hockey, Frisbee golf, softball, tennis, volleyball and archery.

## FUNDAMENTALS OF OFFICIATING & COACHING

**Prerequisite: Junior, Senior Status**

This class is designed for the students interested in maintaining a connection with the sports they enjoyed in school. Opportunities will exist with becoming a certified official for all 7<sup>th</sup> and 8<sup>th</sup> grade contests and sub-varsity high school contests. This may include rocket football & softball/baseball umpiring. Those completing levels I & II of the M.H.S.A.A. Coaches Education Program will become available to coach at the junior high level and possibly assisting with our high school coaches as a student assistant.

## AEROBICS I

**Prerequisite: "C" or Better in Personal Fitness I**

Aerobic conditioning will provide the opportunity for students to improve body flexibility and muscle tone, while increasing awareness of healthy living. This class will enable each student to progress at his/her own pace while combining low to middle intensity cardiovascular workouts.

## AEROBICS II

**Prerequisite: "C" or Better in Aerobics I**

This course is designed for the student who wants to get serious about improving his/her cardiovascular fitness level through aerobic activity. Advanced step routines and various running, jump roping, and weight lifting exercises will be used.

# SCIENCE

## PHYSICS I

**Prerequisite: Required – Freshmen or Sophomore**

The topics covered each 12 weeks are related to physics. The course is designed to help each student reach the state mandated bench marks in physics. Students will learn these topics through lecture, group discussions, written and oral reports and group and/or individual projects/labs.

## EARTH SCIENCE I

**Prerequisite: Required – Freshmen or Sophomore**

The topics covered each 12 weeks are related to earth science. The course is designed to help each student reach the state mandated bench marks in earth science. Students will learn these topics through lecture, group discussions, written and oral reports, and group and/or individual projects/labs.

## INTRODUCTORY CHEMISTRY

**Prerequisite: Freshmen -**

This course will be required for all students prior to taking Chemistry I. It will be possible for some students to skip this course and move directly to Chemistry I based on teacher recommendation and testing.

## CHEMISTRY I

**Prerequisite: Required – Freshmen or Sophomore**

The topics covered each 12 weeks are related to chemistry. The course is designed to help each student reach the state mandated bench marks in chemistry. Students will learn these topics through lecture, group discussions, written and oral reports and group and/or individual projects/labs.

## BIOLOGY I A

**Prerequisite: Required – Freshmen or Sophomore**

Biology I A is a course that looks at the real world by studying ecological events that have changed over time, that have influenced the structure and function of living things, and continues to exert pressure on the very survival of each living thing. Topics covered include: science of biology, chemistry of life, the biosphere, ecosystems and communities, and the effect of the biosphere on populations and humans. Students will use a variety of methods to complete their studies,

including hands on lab activities, lectures, demonstrations, research and lab development, inquiry and class discussions. Research projects and models could be real outcomes of this class.

## BIOLOGY I B

**Prerequisite: Required Sophomores**

Biology I B picks up where Biology I A leaves off. Throughout this required class, topics covered will include cell structure and function, photosynthesis, cellular respiration, cell growth and division, and a unit in genetics. Students will use a variety of methods to complete their studies, including hands-on lab activities, lectures, demonstrations, research and lab development, inquiry and class discussions. Research projects and models could be real outcomes of this class.

## BIOLOGY II A

**Prerequisite: Biology I A and I B**

This course is designed for the student with an interest in zoology and botany. The class is devoted to the systems and classification of the six kingdoms. The course follows the development of the six kingdoms through time as they adapt to changing environments and new habitats. Each chapter is discussed in detail with lectures, labs, hands-on activities, dissections, outdoor expeditions, and class discussions. Biology IIA will begin with evolution, and travel through classification, bacteria and viruses, protists, fungi, and plants.

## BIOLOGY II B

**Prerequisite: Biology II A**

This course will pick up where Biology II A left off. The class is devoted to the systems and classification of the six kingdoms. The course follows the development of the six kingdoms through time as they adapt to changing environments and new habitats. Each chapter is discussed in detail with lectures, labs, hands-on activities, dissections, outdoor expeditions, and class discussions. Biology II B will study sponges, cnidarians, worms, mollusks, arthropods, echinoderms, fish, amphibians, and possibly reptiles, birds and mammals.

## ANATOMY & PHYSIOLOGY A

**Prerequisite: Successful completion of Biology I**

### **Junior or Senior Status**

This is the first part of a two trimester course designed to meet the needs of students interested in learning about the human body. This is a college preparatory course with an emphasis placed on anatomy and physiology of the human body and the first 5 of its 10 systems. Each system is discussed in detail with lectures, labs, hands on activities, and group discussions. Individual and group projects will give students the opportunities to apply what they have learned throughout the course. This is an exceptional choice for students with an interest in preparing for pursuit of any biological field in college.

### **ANATOMY & PHYSIOLOGY B**

**Prerequisite: Anatomy and Physiology A,  
Junior or Senior Status**

This is the second part of a two trimester course designed to meet the needs of students interested in learning about the human body. This is the continuation of a college preparatory course with an emphasis placed on anatomy and physiology of the human body and the last 5 of its 10 systems. Each system is discussed in detail with lectures, labs, hands on activities, and group discussions. Individual and group projects will give students the opportunities to apply what they have learned throughout the course. This is an exceptional choice for students with an interest in learning about the human body, or an interest in pursuing any medical related career.

**NOTE: Starting with 2010-11 school year Biology II and Anatomy & Physiology will be offered on a rotational basis (every other year). Biology II will be offered on odd graduation years and A & P on even years.**

### **INTRO TO CHEMISTRY A**

**Prerequisite: Successful Completion of  
Earth Science 9, Physical Science 9,  
Biology I (Class of 2011-12)**

This course is a practical approach to inorganic chemistry. Household chemicals and their relationship to the environment and human health will be explored.

### **INTRO TO CHEMISTRY B**

This will be a continuation of Intro to Chemistry A

### **CHEMISTRY I A**

**Prerequisite: Successful Completion of Geometry**

### **Junior or Senior Status**

Chemistry I A is the first trimester of a 24 week chemistry course. This course is intended for students who have a strong background in mathematics and wish to continue their post high school training or education. Topics included in this course are scientific method; matter and energy; elements, atoms and ions; nomenclature, chemical reactions and quantum mechanics. Laboratory, practices and procedures, is a supplement to the listed topics.

### **CHEMISTRY I B**

**Prerequisite: Chemistry I A**

Chemistry I B is the second trimester of a 24 week chemistry course. This course is intended for students who have a strong background in mathematics and wish to continue their post high school training or education. Topics included in this course are chemical reactions; Stoichiometry of chemical reactions; acid-base chemistry; chemical bonding; gases; solutions and nuclear chemistry. Laboratory, practices and procedures is a supplement to the listed topics.

### **PHYSICS A**

**Prerequisite: Biology I B and Geometry**

Physics A is the first trimester of a twenty-four week physics course. This course is intended for students who have a strong background in mathematics and science that plan to continue their education post high school. This course involves concepts, ideas, and principles of mechanics. Topics discussed, although not limited to include, motion, forces, momentum and its conservation, gravitation, and energy. Laboratory experimentation and construction projects will be used to support lecture concepts.

### **PHYSICS B**

**Prerequisite: Physics A**

Physics B is the second trimester of a twenty-four week physics course. This course is intended for students who have a strong background in mathematics and science that plan to continue their education post high school. This course involves concepts, ideas, and principles of heat, electricity, properties of matter, and sound and light. Topics discussed, although not limited to include, waves and energy transfer, electrostatics and electric current, solids, liquids, and gases, and reflection and refraction of waves. Laboratory experimentation and construction projects will be used to support lecture concepts.

# SOCIAL STUDIES

## AMERICAN HISTORY A

**Prerequisite: Required - Freshmen**

This course is an extension of 8<sup>th</sup> grade history that covered the time period from the creation of America through the Civil War. This course will cover the time period from the Civil War through the Great Depression. This course is taught using the Living Through History format in which students will role-play the events of American history. Relationships between the role-playing and actual historical events will be examined.

## AMERICAN HISTORY B

**Prerequisite: Required - Freshmen**

This course is an extension of American History A. This course will cover the time period of World War II up and through the 1990's and will also use the Living Through History format.

## CIVICS

**Prerequisite: Required – Juniors**

This course will focus upon three major themes: our U.S. Constitution and federal government, our individual rights and liberties, and our state and local governments. The student will actively participate in simulations, role-plays, and cooperative pairs through out this course.

## MODERN HISTORY

**Prerequisite: Sophomore Status**

This course will cover significant events and people, from 1950 to the present that helped shape America the last half of the 20<sup>th</sup> century. Among the topics that will be covered include: the Cold War, the Vietnam War, the Civil Rights and Women's Movements, the wars with Iraq, and the popular culture of each decade. Topics will be covered in greater detail than American History B and will use a variety of simulations. Relationships between past and current events will be examined.

## MICROECONOMICS

**Prerequisite: Required - Junior/Senior Status**

Microeconomics is the study of how individuals make choices about how to use scarce resources to fulfill their wants. The students will study the relationship of supply and demand.

## MACROECONOMICS

**Prerequisite: Junior/Senior Status; Completion of Microeconomics Recommended Required – Class of 2010**

Macroeconomics is the study of how nations make choices about how to use scarce resources to fulfill their wants.

## SOCIOLOGY

**Prerequisite: None**

Students will explore the process of socialization, analyze social institutions, their structures and functions, understand roles of beliefs, tradition in a culture, analyze roles of people in various situations and relationships.

## COMPARATIVE RELIGION

**Prerequisite: Sophomore/Junior/Senior Status**

Course will survey the basic elements and historical developments of world religions. After establishing a common definition of the purpose of religion and way to study religion, students study Buddhism, Taoism, Hinduism, Judaism, Christianity, and Islam. Other religions are studied as time and interest permit.

## U.S. AND WORLD GEOGRAPHY

**Prerequisite: Required – Freshmen (Class of 2011-13)**

This 12-week course will examine the different cultures and places around the world. This course will briefly study the different continents, identify various problems of the world, examine different cultures and relate this knowledge to the students. This course is intended to provide students with a core of knowledge and how to think geographically.

## PSYCHOLOGY

**Prerequisite: None**

Psychology is the study of the mind and human behavior. In this class many different topics may be examined and/or discussed including self-concept, personality development, learning, noted psychologists, perception, memory, dreams, phobias, mental health/illness, coping and defense mechanisms. Students will be expected to actively participate in experiments and to work cooperatively.

## **WORLD HISTORY A**

**Prerequisite: Completion of U.S./ World Geog  
Sophomore – Required**

World History is the study of the rise and fall of various civilizations and countries around the world along with their relationship to our present day world. Time will be spent examining the important personalities and their impact upon important historical events. This class will examine history during ancient times and continue through the middle ages.

## **WORLD HISTORY B**

**Prerequisite: Required - Sophomore –  
(Class of 2011-13))**

World History is the study of the rise and fall of various civilizations and countries around the world along with their relationship to our present world. Time will be spent examining the important personalities and events. This class will continue studying history from the Middle Ages and continue into the twentieth century.

## **STREET LAW: PRACTICES AND PROCEDURES**

**Prerequisite: Junior or Senior Status  
B or Better in Government**

This class is designed to provide the student with a hands-on, practical approach to learning law and the legal system. The main focus is citizenship as it relates to a person's civic duties and rights. Topics include jury duty, voting, small claims, local court functions, attorneys, criminal acts, juvenile delinquency, family issues, wills and estates. The student will actively participate in many simulations such as mock trials, making laws, solving disputes, and Supreme Court nominations. The student will work in many cooperative groups that will enhance his/her social interaction skills.

## **ECONOMICS II**

**Prerequisite: Junior or Senior Status  
B or Better in Micro/Macroeconomics  
Teacher Approval**

This course will develop an understanding of the nature and functions of markets. Students will learn how supply and demand affect products in the market place. Students will do this in two ways – one, by having a more intense study of micro and macro concepts and two, by running of the school store. Students would be required to run the store during class, lunch and other times as needed.

## **LEADERSHIP I & II**

**Prerequisite: None**

This course will develop understanding of skills that make good leaders. The course will deal with decision-making, strategic planning, ethics, diversity, team building, delegation, meeting management, leadership styles, communication and time/stress management. The class will be based on Active Learning. Examples would be role-playing, simulations, debates, demonstrations, and games. Class members apply what they are learning in class through school and community involvement. A day planner will be required. Applications for the class will be available in the counseling office.

# **\*OTHER CLASSES\***

## **MME PREP**

**Prerequisite: Required -Junior**

This course is intended to better prepare the student to take the Michigan Merit Exam which includes the ACT assessment plus Writing. Throughout the 12-week course, the student will be exposed to testing situations similar to those of the exam, will take practice tests both online and on paper, will be introduced to a variety of test-taking strategies, and will be periodically evaluated to see what areas they need the most practice in. If time allows, the areas of career and college preparation will also be incorporated.

## **OUTDOOR LIVING**

**Prerequisite: None**

Outdoor Living is an environmental and outdoor education class designed for the outdoor enthusiast interested in learning about recreational opportunities in the great outdoors. Topics covered include outdoor writing and outdoor photography, plant and animal identification, forest and wildlife management, attracting backyard wildlife, orienteering and wilderness survival, recreational vehicles, hunting and the shooting sports, fishing and the water sports, and other popular outdoor activities. Students will gain an appreciation of the natural world while learning about the responsible use of the outdoor resource. Participation is required in a variety of projects and/or field trips. Projects include fly tying and lure making, decoy painting, wood duck nest box and bluebird house construction, outdoor survival shelter construction

# MECOSTA-OSCEOLA CAREER CENTER PROGRAMS AND SERVICES

**Prerequisite: Junior or Senior status, 1.0 credit per trimester**

## **Allied Health Nursing**

This is a one year program for students focused on health care services specifically related to nursing services. The student will prepare for Certified Nurse Aide State Boards. This is an excellent pre-nursing or other pre-medical preparation program. The student may continue in the 2<sup>nd</sup> year and will do more work-based learning during that time or they could choose the Allied Health Nursing program for the 2<sup>nd</sup> year.

## **Allied Health Therapeutics**

This program is designed as a one-year introduction to the various allied health care fields and technologies. Major components include anatomy, physiology, medical terminology, and professional clinical experience in the field. The student may explore studies in phlebotomy, EKG's, respiratory treatments, veterinary medicine, and dental applications, to name a few. All students will have an opportunity to job shadow a professional in the field. The student may continue in the 2<sup>nd</sup> year and will do more work-based learning or they could choose Allied Health Nursing program for the 2<sup>nd</sup> year.

## **Automotive Technology**

The Automotive Technology program is NATEF (National Automotive Technician Education Foundation) certified in three areas of automotive repair: Engine Repair, Brakes, and Suspension/Steering Systems. This two-year program also covers safety, preventive maintenance, business knowledge (i.e. writing repair orders and estimates), and automotive electricity/electronic systems. Students are prepared to take the State of Michigan Mechanic Certification Tests in each of the three NATEF certified repair areas. The program includes theory and hands-on practice. Articulation with college programs is available for successful students.

## **Building & Grounds Maintenance**

This program instructs individuals in the operation of power equipment and tools; use of cleaning agents and protective coatings; sanitation and disinfectants; care and cleaning of buildings, fixtures and furnishings including a variety of floor surfaces and wall coatings; performing building repairs; performing minor electrical repairs; basic grounds maintenance, and laundry. Potential employment opportunities include but are not limited to: painters apprentice, facilities technician, maintenance supervisor, custodian, custodian helper, landscaping, construction, and lawn care.

## **Building Trades**

The two-year Building Trades program is designed to provide preparation for job entry in the building construction industry. Students will receive varied experiences in residential construction by building a residential home. Instruction includes: shop safety, reading blueprints, using hand and power tools, concrete footings, walls and flat work, framing, roofing, laying block and brick, chimneys and fireplaces. Students participate in interior and exterior painting and finishing, dry walling and plastering. Building trades students complete a residential home that is offered for sale to the public.

## **CAD/Drafting**

The CAD/Drafting program is a two-year program in technical drafting and CAD (Computer-Aided-Design). The first year of the program consists of manual drafting/CAD with the development of basic drafting skills. Students are also exposed to three-dimensional solid modeling. The second year of the program consists of CAD with emphasis on student design of tools, jigs, fixtures and sheet metal stamping dies for manufacturing and advanced three-dimensional CAD modeling. Additional drafting career training opportunities may be available upon instructor

## **Cosmetology**

The Cosmetology course is a two-year program starting with seniors in high school attending either the morning or afternoon sessions. They return the following year as a full time student until 1500 hours of instruction are attained. First year students concentrate on theory and practical work on mannequins and each other. Advanced students work and study in a model beauty salon that is open to the public. Those completing the program may apply to the State Board of Cosmetology to take the test for a Cosmetology license.

## **Early Childhood Careers**

This program is designed to meet the needs of students who plan to work in childcare at an entry-level position. It also offers training for those who plan on a college education to become teachers, librarians, pediatricians, psychologists, social workers, etc. The program emphasizes national standards for early childhood education. The curriculum includes: planning, organizing, teaching activities, assisting children's needs in an actual preschool setting, emergency care (CPR and first aid) and audiovisual presentation skills. In addition, students develop professional work ethics and teamwork skills as part of the grading process. Advanced students are exposed to work explorations and cooperative education experiences.

### **Electricity/Electronics**

This program offers instruction relating to installation, maintenance, trouble-shooting and repair of electrical and electronic equipment and systems. Major components of study during the first year of this program include basic AC & DC electronics and electrical principles. Second year students learn solid-state electronics, semiconductor technology and digital electronics. Depending on their interests, students may become involved in personal computer repair, networking, maintenance, residential wiring, industrial controls or electronics repair.

### **Culinary Arts**

The Culinary Arts program will provide experience in a wide variety of occupations available in the commercial foods and hospitality industry. This may be either a one or two-year program with the first year stressing the techniques of preparing and serving food, health standards and sanitation. An individual with technical or management goals should plan on two years of attendance in culinary arts. The second year of the program will include advanced food preparation and time management techniques. The Career Center operates a model restaurant as part of the Culinary Arts program. Articulation with Ferris State University is available for successful students.

### **Graphic Communications**

This is a two-year program designed to give students an overview of the entire graphic/visual communication industry. First year students are exposed to all phases of the industry as they develop skills in producing printed products. Second year students participate in a self-paced study of more advanced graphic processes. This program is designed to include: instruction on computer imaging, electronic publishing, graphic layout and design, photography, image assembly, offset printing, customer service, team work and problem solving.

### **Diesel Technology**

Diesel Technology is a two year program designed to equip students with entry level skills in the repair and maintenance of large and small engines. This is a rotating program involving "hands on" training in safety, rebuilding gas and diesel engines, hydraulics, welding, electrical systems and tune ups on gas, diesel and LP engines. Many employers require advanced training, so this program is designed so the graduate can acquire more advanced training at the college level or trade school leading to a 2 or 4 year degree. Advanced placement is available through articulation with related college programs.

### **Engineering & Precision Technology**

Engineering & Precision Technology prepares students for employment or future education related to many jobs in modern high production facilities. Students work in teams, design products, solve problems and produce finished goods in a simulated manufacturing

laboratory. Seven major areas of study in this program include: product design, manufacturing processes, quality control, automated materials handling, fluid power, electrical systems and plastics. Local employment opportunities for students completing this program include: assembly worker, production team worker, general maintenance, machine operator, packaging and other material handling. College programs related to manufacturing technology include: Mechanical Engineering, Plastics Technology, Drafting/Tool Design and Manufacturing.

### **Public Safety**

The Public Safety program will introduce high school juniors and seniors to various job possibilities within the Public Safety field. The focus of the program will include lecture material, hands on experiences, job shadowing and wellness training. Public Safety encompasses police work, firefighting, EMS, courts, corrections and emergency dispatch. Career opportunities in the Public Safety field include police officer, firefighter, EMS technician, Court personnel, corrections officer, emergency dispatcher, forensic science, lab technician and homeland security positions.

### **Welding & Fabrication**

This is a "hands on" class that trains students in a number of welding and cutting processes such as: stick, mig, tig, spot, oxy fuel, flux core, brazing, plasma cutting and carbon arc gouging. Fabrication tools used include: drill press, shears, power shears, benders, brakes and optically guided cutters. Students also use metal working processes to fabricate projects. Advanced students may work with CAD programs in the designing of projects. College credit is available through articulation with related college programs. Job placement for cooperative education students is an option.

### **Heating/Ventilation/Air Conditioning & Refrigeration**

Students in the Heating, Ventilation, Air Conditioning, and Refrigeration program learn the installation, maintenance and repair of refrigeration, heating and air conditioning systems for residential and commercial buildings. HVACR technicians are in high demand and can make good money in the construction and services field. Technicians repair, service and maintain a variety of equipment from residential heating and cooling to commercial air conditioners, furnaces, supermarket equipment, and refrigerated freight trailers. This program is run in conjunction with the Ferris State University HVACR Department. It is offered in the afternoon only at the FSU Granger Center.

### **Career Services**

All students are exposed to career and job seeking skills through employability instruction. These skills include tips on career planning, finding job leads, filling out applications, resume writing, portfolio maintenance and interview techniques. These services are available to students beyond graduation and into adult career transitions.

### **Articulation**

Articulation agreements are in place, in some programs, that provides for college credit considerations for program participation.

### **Student Services**

The Mecosta-Osceola Career Center offers adaptive services to individuals with specific needs. These services can consist of program modifications, intermediate school specialists, paraprofessionals and other agency personnel when needed. Career counseling is also available through the Career Center staff.

### **Student Organizations**

Vocational student organizations are available for skill competition and leadership development in many programs. Mecosta-Osceola Career Center students in these organizations have the opportunity to compete at the regional, state and national level competitions.

## **MATH/SCIENCE/TECHNOLOGY CENTER**

The Math/Science/Technology Center is available to selected ninth graders. This is an intensive, accelerated program in math, science and computer usage. Students attending will spend a half day at the Center and will receive two credits for each semester of completion. It is emphasized that this is a four-year program. Students and parents should be committed to completing all four years. Selection is based on application, interview, teacher recommendation and 8<sup>th</sup> grade testing results.

**Junior and Senior classes are taught at Ferris State University and are for high school and/or college credits.**