

North Muskegon High School Course Description Booklet

2011-2012



This handbook contains valuable information needed for each student to plot their four-year plan. As you review the information contained on these pages, you will find State of Michigan graduation requirements as well as district requirements for graduation. Students and parents should look at courses on a continuum, as well as a yearly basis. Decisions are best made in a partnership approach with school, staff, and family working together to ensure success.

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Table of Contents

Mission	3
Demographics	3
Graduation Requirements.....	4
Class Standing.....	4
Credit/No Credit courses	4
Michigan Merit Core Curriculum	5
Correspondence courses	5
Drop/Add Course Requests.....	6
Dual Enrollment	6
Educational Development Plans	7
Extra Curricular Activities & Opportunities	7
Grading Scale.....	8
MHSAA Eligibility.....	8
Michigan Virtual High School	8
NCAA	8
Summer School	8
Test Out.....	8
Trimesters	9
Michigan Career Pathways	9
Course Descriptions	
Performing Arts	11
Visual Arts.....	12
Special Education	12
Physical Education.....	13
Business Education	13
World Languages.....	14
English	16
Math	18
Science	19
Social Studies.....	21
Career Tech Center Courses	23

MISSION

The staff of the North Muskegon Public Schools, in partnership with parents and the community, will educate each student. Our mission is student mastery of skills to promote life-long learning and the development of positive self-esteem leading students to become productive, responsible citizens.

DEMOGRAPHICS

North Muskegon is a suburban community in Muskegon County with a population of 3786 according to the 2010 census. North Muskegon Public Schools has a total enrollment of 943 students as of the February 2011 head count. North Muskegon Elementary School has 443 students, the middle school has 222 students, and the high school has 278.

North Muskegon residents have the highest median family income in the county as well as the highest educational attainment. The district has maintained over a 90% college matriculation rate since the 90's.

Enrollment: February 2011

High School: 278

Noteworthy Statistics...

ACT	2006	2007	2008	2009	2010						
USA composite	21.1	21.2	21.1	21.1	21.1						
MI composite	21.5	21.5	19.6	19.6	19.6						
NM composite	22.7	23.0	21.7	21.5	22.5		2006	2007	2008	2009	2010
NMSQT	2006	2007	2008	2009	2010	# of grads	72	80	78	70	52
# in grad class	72	80	78	70	52	College bound	99%	97%	94%	92%	94%
Commended	1	0	1	2	1	2-yr. College	43%	32%	42%	46%	37%
Semifinalists	1	0	0	0	0	4-yr. College	56%	65%	52%	53%	63%
Finalists	1	0	0	0	0	*Other	1%	3%	6%	8%	0%

NMHS GRADUATION REQUIREMENTS

Class of 2012 and beyond

English	4.5 credits
Math	4 credits
Science	3 credits
Social St	3 credits
PE	.5 credit
Health	.5 credit
Fine Art	1 credit
Computers	.5 credit
Required	17 credits
<u>Electives</u>	<u>11 credits</u>
TOTAL	28 credits

**The State Board of Education is recommending districts to follow the Michigan Merit Core Curriculum. See MMC for more information about the state graduation initiative.*

Per school board policy revised February 8, 2004, Section 7642 "Alternative Credit Options" students may obtain a total of four credits by non-traditional methods toward graduation. The following are deemed "non-traditional": correspondence courses, virtual courses, summer school, independent study and testing out. For more clarification, see Counseling or Administration.

CLASS STANDING (2011-2012 only)

Freshman	0 credits needed
Sophomore	7 credits needed
Junior	14 credits needed
Senior	20.5 credits needed

CREDIT-NO CREDIT COURSES

North Muskegon HS uses the grades A, B, C, D, F, CR and N. Credit only courses are not figured into the grade point average, only total credits earned. Non-required courses may be "audited" or taken on a credit-no credit basis with the consent of the instructor and counselor in the eleventh and twelfth grades. If the course is not passed by the student, a grade of N is given. To earn credit on a CR/N basis, the combined percentage of marking period and exam grade must be 60%, or no credit is earned. Forms in the guidance office must be completed and returned by the 15th day of each term.

COLLEGE PREP CLASS

This ½ credit course is designed to help students prepare to enter post-secondary education or enter the world of work. Course expectations include successfully completing college applications, the FAFSA, and preparing for the exams needed for successful admission to colleges or universities. This course is intended for juniors only and is taken on a CR/NC basis.

COLLEGE PREPARATORY CURRICULUM

North Muskegon High School's mission is to prepare students for post-secondary education. Students are encouraged to take core classes every year of high school and to attempt to "max out" the curriculum in every content subject.

To prepare Michigan's students with the knowledge and skills to succeed in the 21st Century, the State of Michigan has enacted a rigorous set of statewide graduation requirements that are among the best in the nation. These requirements, called the **MICHIGAN MERIT CORE CURRICULUM (MMC)**, require 16 credits for graduation. These requirements are also the first step for college admissions and federal grant requirements, like the Academic Competitiveness Grant.

MICHIGAN MERIT CORE

- ✓ Four credits of English
- ✓ Four credits of math (including algebra I, algebra II, geometry and one credit in the senior year)
- ✓ Three credits of science (including biology, chemistry or physics, and one additional science credit)
- ✓ Three credits of social studies
- ✓ One credit of physical education/health
- ✓ One credit of visual, performing, applied arts

MICHIGAN SCHOLARS

In addition to the Michigan Merit,

- ✓ Two credits in a single language other than English
- ✓ One on-line learning experience class

MICHIGAN SCHOLARSHIP & SELECTIVE COLLEGES

In addition to the Michigan Scholars, grants like the Academic Competitiveness Grant and admissions to selective schools will be judged by the addition of a minimum of **2 AP** courses in high school with a **passing score of a 3 or higher** on the AP tests.

CORRESPONDENCE COURSES

Students needing to make-up credit in specified courses are recommended to do so prior to the start of their senior year. Students looking to expand their normal school day may also consider courses that NM does not offer. Students wishing to raise a current grade in a course must petition the guidance office before applying. These courses are taken at the expense of the student and a North Muskegon local proctor gives all assessments. Average tuition for a one-semester course runs approximately \$200, including tuition, books, and fees.

University of Nebraska Independent High School is accredited through the North Central Association and University Continuing Education Association and is the approved program for North Muskegon graduation requirements. Applications

are available in the guidance office and should be submitted one month prior to the start of the semester. Completion of credit must occur one month before end of the year.

For more information regarding courses offered, go to <http://nebraskahs.unl.edu/index.shtml>

DROP/ADD COURSE REQUESTS

Each spring NM creates a new master schedule to accommodate student requests for courses. Students should take time to make appropriate and challenging selections for the following year. Parents should contact counselors with course or planning questions prior to the signed Educational Development Plan deadline. The master schedule creation is only as accurate as the requests students submit; choose wisely.

During a designated time period before school starts, students may substitute a course that has seats available in it for a course in their schedule. After the substitution period (first five days of school), no schedule changes will be made.

Normally, drop/adds occur due to successful summer school. It is not standard practice to change a schedule for teacher preference.

DUAL ENROLLMENT

Students may take classes at Muskegon Community College or Baker College while attending North Muskegon. The college course must not be offered by the district. An exception to this could occur if the Board of Education decides that a scheduling conflict exists, which is beyond the student's control. In addition, the college course must **not** be considered a hobby, craft, or recreation. Courses also excluded are those in the subject areas of physical education, theology, divinity or religious education. Credit obtained will be given college credit. North Muskegon will pay for academic credit only. Transportation, texts and other associated fees including lab fees and technology user fees are the responsibility of students. **Students who fail to earn credits** in a course are expected to reimburse the district for the total cost of the credits attempted.

The State of Michigan has directed school districts to assist students in paying tuition fees for courses at Michigan public or private colleges or universities if all the following conditions are met. The student:

- ✓ Is a junior or senior
- ✓ Has tested PLAN or PSAT during the fall of their sophomore year for fall dual enrollment as a junior
- ✓ Has tested PSAT during the fall of their junior year or tested MME in the spring of their junior year for the fall dual enrollment as a senior
- ✓ Test scores indicate proficiency in subject areas

EDUCATIONAL DEVELOPMENT PLAN (EDP)

The State of Michigan requires that each student identifies both career goals and a plan of action to achieve them. EDP's are developed for every 8th -11th grader and periodically

revised throughout their secondary educational experience, to reflect the student's career interests and options. Currently NM uses www.careercruising.com, a web-based program to create and update EDP's. 2 steps will get a student access:

STEP 1. Go to www.careercruising.com
 Username: nmhs Password: norse

STEP 2. Click on **EDP** on the purple horizontal icon at the top of the main page.
Log in to your EDP
 Username and Password here is secure...see counselors.

EXTRA CURRICULAR ACTIVITIES & OPPORTUNITIES

Fall:

Student Council
 National Honor Society
 Donate Pennies
 Spanish Club
 French Club
 Choir Council
 Drama Club
 JV and Varsity Football
 Freshmen, JV and Varsity
 Volleyball
 Varsity Cross Country (Boys
 & Girls)
 Boys Varsity Soccer
 Boys Varsity Tennis
 Girls Cooperative Swim
 Team
 Sideline Cheer

Winter:

Student Council
 National Honor Society
 Donate Pennies
 Spanish Club
 French Club
 Choir Council
 Drama Club
 HS Talent Show
 Alpine Ski Club
 Boys Freshmen, JV and
 Varsity Basketball
 Girls JV and Varsity
 Basketball
 Varsity Competitive Cheer
 JV and Varsity Hockey
 Cooperative
 Boys Cooperative Swim
 Team

Spring:

Student Council
 National Honor Society
 Donate Pennies
 Spanish Club
 French Club
 Choir Council
 Drama Club
 Girls Varsity Tennis
 Girls Varsity Softball
 Girls Varsity Soccer
 Varsity Track (Boys & Girls)
 Boys JV and Varsity
 Baseball
 Boys Varsity Golf

GRADING SCALE & APPEAL OF ISSUED GRADE

North Muskegon High School does not weight accelerated or advanced courses. The following are grade point equivalencies:

A	4.00	B-	2.67	D+	1.33
A-	3.67	C+	2.33	D	1.00
B+	3.33	C	2.00	D-	.67
B	3.00	C-	1.67	F	0

North Muskegon Public Schools Board of Education policy #8055 provides a method for a student to appeal the grade earned in any course. The appeal must be made in writing to the building principal within 30 days after the grade is issued. The 30 days normally begin five calendar days after the end of the term.

MHSAA ELIGIBILITY

Top 10 List for Student Eligibility (excerpt from www.mhsaa.com)...
 You were enrolled in a high school not later than the fourth Friday after Labor Day.
 You will not have turned 19 before Sept.1.
 You have had a physical exam since April 15, and it is on file in the school office.

You have not been enrolled in more than 8 semesters in high school (grades 9-12)
You have passed the equivalent of at least 20 credit hours in the previous semester of school (4 of 6 classes in a six-hour day)
You are currently passing the equivalent of at least 20 credit hours.
You have not changed schools without a corresponding move by your parents and persons with whom you were living for at least 30 calendar days during your last semester.
You have not received money or other valuable considerations for participating in MHSAA-tournament sports.
You have not participated in non-school contests during your sports season after having reported for your school team (club sports)
You have not competed in an all-star or national championship after having played for a high school team in the same sport.

Questions? Call the athletic office at 719-4144

MICHIGAN VIRTUAL HIGH SCHOOL* *This opportunity is pending due to budget issues.*

North Muskegon offers the opportunity for high school students to take courses offered by Michigan Virtual High School. Juniors and seniors have priority to schedule a class online if they cannot meet a full academic schedule on campus. Course selection should align with student's EDP. Students petition for admittance by 1) submitting two teacher recommendations, and 2) passing Introduction to Computers with a "B" or better. This process should be done prior to the first week of school in fall or two weeks prior to each term. Forms are available in the guidance office.

For more information regarding courses, go to www.mivhs.org.

NCAA

To participate in athletic competition at a Division I or II college, students must meet NCAA initial eligibility requirements. Go to www.naaclearinghouse.net for details about registering with the NCAA and a list of NMHS approved core courses.

SUMMER SCHOOL

North Muskegon Public Schools is a member of the White Lake Area Community Education family. WLACE sponsors summer school for grades 6-12 in CORE classes every summer. Students retaking failed CORE courses must have counselor signed permission sheets in order to register. Students considering summer school for NON-failed courses must consult with counselors prior to registration for permission. 2011 costs are \$150 per subject per session. Sessions are online using E2020 curriculum. Maximum of 1 credit can be obtained by summer school. Go to www.wlace.com or call 766-3001 for current dates and pricing.

TEST OUT

Legislation (PA 335, Section 1279B) requires school districts to provide the opportunity to "test out" of high school courses. Test out requests for the next school term are due the 20th day of the current term. Test out exams are given during the exam week of the current term. The law uses the term "any course" which is subject to limitations. To obtain credit, exams must be passed by a grade of 78% or better. "Testing out" is only intended for highly motivated, self-directed learners. Credit earned is not calculated into cumulative grade point average. American Government is exempt from testing out because the State of Michigan requires the course for all high school students.

TRIMESTERS

Students will select courses for fall, winter and spring terms. Each term will have five courses and each course will be .5 credits. Students are expected to earn 7.5 credits annually. The number

of terms a course meets varies (see p. 44-46 for complete listing of courses and terms).

Grades for each term of instruction will be transcribed on the official transcript.

FALL	WINTER	SPRING
Class 1	Class 6	Class 11
Class 2	Class 7	Class 12
Class 3	Class 8	Class 13
Class 4	Class 9	Class 14
Class 5	Class 10	Class 15

MICHIGAN'S CAREER PATHS

What are career pathways?

These are broad groupings of careers that share similar characteristics and whose employment requirements call for similar competencies.

How do I use them?

Career pathways can help you develop a plan on how to prepare for your chosen career interest. Courses are listed according to the six Michigan Career Pathways. When you are selecting courses, keep in mind those courses that match your pathway.

SIX PATHWAYS

Area 1: Arts & Communication

Careers related to humanities and the performing, visual, literary and media arts. Sample careers include artists, journalists and graphic designers. These careers are interesting to people who value creativity and seek opportunities to express themselves.

Are you a creative thinker? Are you imaginative, innovative, and original? Do you like to communicate ideas? Do you like making crafts, drawing, playing a musical instrument, taking photos, or writing stories? This may be the career path for you!

Area 2: Business, Management, Marketing & Technology

Careers related to all aspects of business including accounting, business administration, finance, information processing and marketing. Sample careers include accountants, business managers and auto salespersons. These careers are interesting to people who are good in math, feel comfortable using computer programs, and enjoy being the leader of the group.

Do you enjoy being a leader, organizing people, planning activities, and talking? Do you like to work with numbers or ideas? Do you enjoy carrying through with an idea and seeing the end product? Do you like things neat and orderly? Would you enjoy balancing a checkbook, following the stock market, holding an office in a club, or surfing the Internet? This may be your career path!

Area 3: Engineering/Manufacturing & Industrial Technology

Careers related to technologies necessary to design, develop, install or maintain physical systems. Sample careers include mechanics, airplane pilots and engineers. These careers are interesting to people who enjoy working with tools, equipment and other kinds of machinery.

Are you mechanically inclined and practical? Do you like reading diagrams and blueprints, and drawing building structures? Are you curious about how things work? Would you enjoy painting a house, repairing cars, wiring electrical circuits, or woodworking? This may be the career path for you!

Area 4: Health Sciences

Careers related to the promotion of health as well as the treatment of injuries and disease. Sample careers include physicians, nurses and veterinarians. These careers are interesting to people who like to know how the body works and care about the well-being of people and animals.

Do you like to care for people or animals that are sick or help them stay well? Are you interested in diseases and in how the body works? Do you enjoy reading about science and medicine? Would it be fun to learn first aid or volunteer at a hospital or veterinary clinic? This may be your career path!

Area 5: Human Services

Careers related to child care, civil service, education, hospitality and the social services. Sample careers include counselors, teachers, law enforcement officers, and religious leaders. These careers are interesting to people who enjoy interacting with people and helping them solve their problems.

Are you friendly, open, understanding, and cooperative? Do you like to work with people to solve problems? Is it important to you to do something that makes things better for other people? Do you like to help friends with family problems? Do you like reading, storytelling, traveling, or tutoring young children? This could be your career path!

Area 6: Natural Resources and Agriscience

Careers related to natural resources, agriculture, and the environment. Sample careers include fish and game wardens, marine biologists and farmers. These careers are interesting to people who enjoy working outdoors and are interested in nature and animals.

Are you a nature lover? Are you practical, curious about the physical world, and interested in plants and animals? Do you enjoy hunting or fishing? Do you like to garden or mow the lawn? Are you interested in protecting the environment?

PERFORMING ARTS

Glenn Burek, Music Education, Western Michigan University
Beth Slimko, Music Education, Butler University

High School Band

1.5 credits 3 terms Grades: 9-12

Career Pathway: 1

Prerequisite: Basic skills required to play a standard band instrument and director approval

This course primarily involves the preparation and performance of concert band literature. The basics of: marching band, ear training, music history, music theory, music composition, instrument technique, music acoustics, the business of music, and music aesthetics will also be covered. Daily individual home practice is required. Attendance at all official band functions is required (any exceptions must be pre-approved by the director). Public performances include: home football games, pep assemblies, concerts (fall, holiday, winter, and spring), festivals, baccalaureate, senior honors assembly, graduation and others. Students must provide their own standard band instruments.

High School Choir

1.5 credits 3 terms Grades: 9-12

Career Pathway: 1

Prerequisite: at least one year of MS or HS choir experience at NM or a private audition with Mrs. Slimko

This course emphasizes choral blend using the fundamentals of voice. Knowledge of diaphragmatic breathing, choral tone, ear training, solfege, diction, rhythm, sight-reading, dynamics, and choral style are developed. Increased awareness of choral composers and Broadway-type musicals are also developed. Repertoire is taken from the Renaissance, Baroque, Classic, Romantic, 20th Century and jazz eras of music history. Attendance at all planned concerts and functions is required (fall concert, holiday concert, pops concert, choral festival, spring concert, baccalaureate, graduation, and other community and school events). A choir workbook and uniform are required. Students must purchase these items. Fundraising opportunities will be available, as well as financial support from the Music Boosters for students in need.

High School String Orchestra

1.5 credits 3 terms Grades: 9-12

Career Pathway: 1

Prerequisite: Basic skills required to play a standard string orchestra instrument and director approval

This course primarily involves the preparation and performance of string orchestra literature. The basics of: ear training, music history, music theory, music composition, instrument technique, music acoustics, the business of music, and music aesthetics will also be covered. Daily individual home practice is required. Attendance at all official string orchestra functions is required (any exceptions must be pre-approved by the director). Public performances include: concerts (fall, holiday, winter, and spring), festivals, baccalaureate, senior honors assembly, graduation and others. Students must provide their own standard orchestra instruments.

Music Appreciation

.5 credit 1 term Grades: 9-12

Career Pathway: 1

Prerequisite: none

A one trimester, non-performing music course covering a broad range of musical subjects to include: What to listen for in music. Students will be introduced to the basic elements of music (rhythm, pitch, meter, etc.) in order to be able to intelligently describe and classify various types of music. Two goals of the course are: For the students to become more appreciative of the fine art of music and for the students to be intelligent consumers of recorded and performed music. Activities include intensive daily in-class listening, maintaining a listening log of all recordings played in class, several short research papers and class presentations, and several field trips.

VISUAL ARTS

Trisha Benaway, Art, Western Michigan University

Beginning Drawing & Paint .5 credit 1 term Grades: 9-12
Career Pathways 1, 5 Prerequisite: None

This is the foundation art class where students will be exploring a variety of drawing and painting media, related techniques and artists who practice them. The following media may be covered: pencil, colored pencil, pen and ink, scratchboard, pastels and tempera paint.

Beginning Ceramics .5 credit 1 term Grades: 9-12
Career Pathways 1, 5 Prerequisite: None

This is the foundation class of ceramic sculpture. Three basic hand building techniques of pinch, slab and coil will be covered as will an introduction to the potter wheel, decorative use of slip, gloss, glazes, related vocabulary and art history.

Mixed Media .5 credit 1 term Grades: 9-12
Career Pathways 1, 5 Prerequisite: BD&P

Students will create art that combines more than one medium. Projects may include plaster masks, collage and printmaking, hand sewing, weaving, paper mache and acrylic. Art history and artists pertaining to the advent of mixed media/assemblage will be discussed as will pertinent tools and techniques.

Intermediate Drawing & Paint .5 credit 1 term Grades: 10-12
Career Pathways 1, 5 Prerequisite: BD&P; MM

Students will continue their understanding of composition and technique while working with advanced drawing and painting media. The following media may be covered as will various artists and styles: scratchboard, pencil, oil, pastel, tempera paint and watercolor. and painting media.

Advanced Ceramics .5 credit 1 term Grades: 10-12
Career Pathways 1, 5 Prerequisite: BC; MM

Students will take an individual approach to the various hand building projects while studying a variety of ceramicists. Advanced throwing techniques and loading the kiln will be introduced.

SPECIAL EDUCATION

Tina Anderson, Mentally Impaired/Emotionally Impaired, Grand Valley State University

Academic Support A,B,C .5 credit varies Grades: 9-12
Prerequisite: IEP

Class is offered to support students receiving special education services with their general education curriculum requirements as well as IEP goals and objectives.

Work-based Learning .5 credit varies Grades: 11-12
Prerequisite: IEP

Work based learning is offered to teach functional skills in a natural setting. Outcomes include employment readiness skills, job-seeking skills, and appropriate employer-employee relationships.

PHYSICAL EDUCATION/HEALTH EDUCATION

Danielle Beaudoin, PE/Health, Central Michigan University
Doug Clark, PE/Political Science, Hope College
Jeff Cooke, PE, Central Michigan University

General PE (required) $\frac{1}{2}$ credit 1 term Grades: 9-12

Career Pathways: 1, 2, 3, 4, 5, 6 Prerequisite: none

This course is intended to develop the student physically, mentally, individually, and socially through team sports, group games, and activities. Physical fitness tests are administered and general conditioning is emphasized.

Advanced PE .5 credit 1 term Grades: 10-12

Career Pathway: 4 Prerequisite: Gen PE

Emphasis will be on stressing a total year-around conditioning and fitness program. The class consists of basic weight training along with circuit training, plyometrics, stretching and cardiovascular exercise. Review of individual and team sports will be a part of the class activities. *With sufficient enrollment, NM may opt to separate girls into a strength training & fitness for women track.

Health MMC .5 credit 1 term Grades: 9-12

Career Pathway: 4 Prerequisite: none

Beginning with the Class of 2011, $\frac{1}{2}$ credit of health education is required for all students. The content of this course meets the requirements set by the Michigan Department of Education. Content expectations include developing personal and social skills to deal effectively with health-risk situations, learning to identify healthy alternatives to specific high-risk behaviors, obtain and understand the critical knowledge and skills necessary to use basic health information to enhance healthy living, and provide information on behaviors that have the greatest effect on health; physical activity, violence and injury, alcohol and other drug use, tobacco use, and sexual behaviors that lead to HIV, STI, or unintended pregnancy. Students may opt out of the sexual behaviors unit by completing a written request and submitting the request to the teacher of the course two weeks prior to beginning of the sexual behaviors unit.

BUSINESS EDUCATION

Ryan Berends, Chemistry/Math, Grand Valley State University
Zach Fricke, Journalism/English, Michigan State University
Joe Gentle, Math/Computers/Anthropology, University of Michigan

Introduction to Computers (required)

.5 credit 1 term Grades: 9, 10, 11, 12

Career Pathways: 1, 2, 3, 4, 5, 6 Prerequisite: None

The major portion of this one term course is dedicated to enhancing skills in the Microsoft Office suite, including Word, Excel and Access. Other topics include Internet research, Internet safety, computer vocabulary and concepts, and computer history.

Computer Aided Design

.5 credit

1 term

Grades: 9, 10, 11, 12

Career Pathways: 1, 2, 3

Prerequisite: Algebra

This course uses computer technology to help the student apply decision making and problem solving skills while being creative. Through various projects, students will develop an understanding for the features and operation of a computer aided design system to graphically represent their design ideas.

Elements of Web Design (old Media Production A)

Career Pathways: 1,2,3

.5 credit

1 term

Grades: 10, 11, 12

Students will learn graphic design elements and how to create and print electronic publications. Students will learn how to create web pages and web sites using Hyper Text Markup Language (HTML). Students will complete learning assignments and complete projects to be posted on the web. Students will also use a HTML editor. In addition, students will learn how to manipulate photographs and pictures using an image editor.

Elements of Video Production (old Media Production B)

Career Pathways: 1,2,3

.5 credit

1 term

Grades: 10, 11, 12

A basic course designed to acquaint the student with the principles, practices, and techniques of television production. Within an operating television studio, students gain hands-on experience operating studio cameras, recording devices, a video switcher, lighting, audio mixing, microphone setup, monitors, props, green screens and other accessories. Activities involving scripting, storyboarding, editing, safety and security will also be provided. . Students will be expected to master each skilled position required in making each broadcast. Students will learn various concepts incorporated into broadcasting. Students will create productions based upon these concepts. This class will also expose students to digital editing.

WORLD LANGUAGES

Bernadette Billock, French, French Institute and GVSU

Tracy Schofield, Spanish/Social St, Hope College & Michigan State Univ.

French 1

1 credit

2 terms

Grades: 9-12

Career Pathways: 1, 2, 3, 4, 5, 6

Prerequisite: none

Basic and simple expressions are used orally and in writing. Grammar and syntax are introduced within these expressions. Elements of cultures about France and other French-speaking countries are explored in the form of projects. Emphasis is on independent as well as cooperative learning, listening comprehension, and basic speaking and writing skills. Seventy to eighty percent of this course is conducted in French.

French 2

1 credit

2 terms

Grades: 10, 11, 12

Career Pathways: 1, 2, 3, 4, 5, 6

Prerequisite: French 1

Grammar and vocabulary study is continued. Skills in speaking, listening, and writing are developed. Interactive skills are developed. Cooperative learning projects are emphasized. Ninety percent of this course is conducted in French.

***French 3**

1 credit

2 terms

Grades: 11, 12

Career Pathway: 1

Prerequisite: French 2

Complete syntax, grammar, and idioms, as well as vocabulary are integrated into students' usage. Ease in communication is emphasized. Cultural knowledge is broadened through cooperative projects, the study of popular French music, and the study and use of French slang. This course is all in French. *** Course only offered with sufficient enrollment.**

***French 4**

1 credit

2 terms

Grade: 12

Career Pathway: 1

Prerequisite: French 3

This course is the continuation of the study of French culture through the study of popular French music, slang, short stories, novels and French history. Emphasis is on cooperative as well as independent learning skills. Cross-age instruction with elementary students is offered as an activity. Real-life (authentic) application is emphasized. Preparation for the French AP exam is offered. This course is all in French. *** Course only offered with sufficient enrollment.**

Spanish 1

1 credit

2 terms

Grades: 9-12

Career Pathways: 1, 2, 3, 4, 5, 6

Prerequisite: None

This course is an introduction to the Spanish language and culture. Emphasis is placed upon vocabulary, conjugation of verbs and communication. The student will build an extensive vocabulary during the first year. Expectations include group work, culture projects, written and oral proficiency.

Spanish 2

1 credit

2 terms

Grades: 10, 11, 12

Career Pathways: 1, 2, 3, 4, 5, 6

Prerequisite: Spanish 1

A continuation of skills learned in Spanish 1. Additional emphasis is placed on the writing, listening, speaking skills along with application of verb tenses and use of advanced vocabulary.

***Spanish 3**

1 credit

2 terms

Grades: 11, 12

Career Pathways: 1, 2, 3, 4, 5, 6

Prerequisite: Spanish 2

A continuation of skills learned in Spanish 1 & 2. Concentration on oral conversations and (conjunction) uses of verb tenses. This in essence places an emphasis on listening skills. Practice use of real-life situations is emphasized and practiced in the community when possible with mini field trips. Writing skills are strengthened. Independent and group work is integrated. A mentoring or tutoring of native speakers is a possibility. Possible teaching experience in the elementary is also explored. Students will have basic skills for a college Spanish program. Projects focusing on the Hispanic culture (i.e. art, meals/food, music, etc.) are integrated. Service learning project in the spring – Fiesta de la Noche. *** Course only offered with sufficient enrollment.**

***Spanish 4**

1 credit

2 terms

Grades: 12

Career Pathways: 1, 2, 3, 4, 5, 6

Prerequisite: Spanish 3

Independent and group work is integrated. Students will have basic skills for a college Spanish program. Selected literature/short stories are read with follow up compositions prepared by the students in preparation for college placement. It is also a continuation of conversation, authentic application and culture. Combination of individual and group work is common. Successful completion of this level will likely allow students entering college to place or test out of entry level college classes in Spanish. Mentoring or tutoring of native speakers and/or possible teaching experience in the elementary is an option. Service learning project in the spring – Fiesta de la Noche. *** Course only offered with sufficient enrollment.**

ENGLISH

Zach Fricke, Journalism/English, Michigan State University
Sarah Knuth, English/Journalism, Central Michigan University
Michael Schanhals, Lang Arts/ Curriculum, Hope College/Michigan State
Toni Seyferth, Theatre/Communications/English, Ohio University

English 9 (required) 1 credit 2 terms Grade: 9

Career Pathways: 1, 2, 3, 4, 5, 6

Prerequisite: None

Freshmen English will focus on basic language art skills. The course will include speaking, writing, and listening assignments on a regular basis. The writing process is a major focus for freshmen with an emphasis on formal essay writing. Reading strategies for novels, short stories, drama, and poetry will be threaded through the program as well. Building an appreciation of literature and expanding a student's ability to express ideas are both goals of English 9.

English 10 (required) 1 credit 2 terms Grade: 10

Career Pathways: 1, 2, 3, 4, 5, 6

Prerequisite: Eng 9

This course gives students exposure to a wide variety of literature and the diversity of cultures from around the world. It involves extensive reading and discussion of thematic literature units, emphasizing writing styles and techniques of foreign and American authors, as well as contemporary authentic themes. Genres studied include short stories, essays, biographies, poetry, legends, and the novel. Curriculum resources during the first trimester include units from McDougal Littell's Language of Literature text and the novels *Fahrenheit 451* by Ray Bradbury and *Anthem* by Ayn Rand. The second trimester focuses on *The Legend of King Arthur*, Shakespeare's *Julius Caesar*, and William Golding's novel, *Lord of the Flies*. Students will further develop vocabulary and grammar skills, as well as continued experience in defining and refining personal, academic and expository writing proficiency.

English 11 (required) 1 credit 2 terms Grade: 11

Career Pathways: 1, 2, 3, 4, 5, 6

Prerequisite: Eng 10

Increasing student knowledge of American Literature is the main goal of English 11 as well as developing formal, academic writing skills. Term A will cover literature from the 1400s through the 1800s. The main students texts for term A will be the McDougal-Littell American Literature book and *The Scarlet Letter*. Term B will cover literature from 1800s through the present day. The main focus of term B will be poetry and novel studies including: *The Great Gatsby*, *Of Mice and Men*, *A Separate Peace*, *A Streetcar Name Desire*, *Fallen Angels*, and *Into the Wild*. Grammar and vocabulary will be addressed through weekly exercises and during the revision and editing phases of the writing process.

English 12 (required) 1 credit 2 terms Grade: 12

Career Pathways: 1, 2, 3, 4, 5, 6

Prerequisite: Eng 11

Senior English will be a culmination of the application of literature study toward the essential questions of: Who am I? Where did I come from? Where am I going? Emphasis will be placed on both writing in an academic setting, and writing for business purposes. Various pieces from significant periods in world literature will be the focus of our discussions and writings. A senior reflective thesis will be the culminating activity of the course.

Argument and Research (required) .5 credit 1 term Grades: 11-12

Career Pathways: 1, 2, 3, 4, 5, 6 Prerequisite: English 10

This class is typically a junior class and offers students an opportunity to express opinions in a

constructive manner. The art of defining an arguable topic will be practiced followed with formal discussions. Students will learn the basics of propaganda, defining terms, and supporting a position. Meaningful research will be transformed into a written paper as well as a class debate experience. This class provides real connections to the world beyond the classroom and creates an awareness of the community they live in both locally and globally.

AP English Literature

1 .5 credits 3 terms Grades: 11, 12

Career Pathways: 1, 2, 3, 4, 5, 6

Prerequisite: English 11

This college-equivalent class is offered to upperclassmen to help prepare them for the rigors of college work and provide them with a true college literature experience. It will challenge them; stretch their minds, so that they have the opportunity to gain more confidence in themselves before they leave for college. College credit may be earned based on successful College Board test results. AP English Literature and Composition is designed to prepare you to excel on the Advanced Placement Literature Examination. Students who do well on the examination will receive college credit. This is a rigorous course that is designed and audited by the College Board to help advanced high school English students gain access to college level literature instruction. You will be required to read voraciously, contemplate deeply, and write persistently. It is expected that college level students take control over their learning process, and that college level students will be well prepared for each class. You need to be ready to ask intelligent questions that will further your understanding about life and literature.

<http://www.collegeboard.com/testing/>

**Course offered alternate years (2012-2013)*

AP English Language and Composition 1 .5 credits 3 terms Grades: 11, 12

Career Pathways: 1, 2, 3, 4, 5, 6

Prerequisite: English 10, Enrollment in Arg&Res

An AP course in English Language and Composition engages students in becoming skilled readers of prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects as well as the way generic conventions and the resources of language contribute to effectiveness in writing. This course is offered in the fall of "odd" school years.

Film and Literature

.5 credits

1 terms

Grades: 10,11, 12

Career Pathways: 1, 2, 3, 4, 5, 6

This course explores the complex interplay between film and literature. Selected novels, short stories and plays are analyzed in relation to film versions of the same works in order to gain an understanding of the possibilities—and problems—involved in the transposition to film. Enhance their ability to understand, appreciate, and discuss works of literature through extensive reading and discussion of short stories, novels and plays.

**Course offered alternate years*

Drama

.5 credits

1 term

Grades: 10, 11, 12

Career Pathway: 1

In this class, students will explore a wide range of forensics. Students will analyze song lyrics, poetry, reader's theatre, cinema, and stage. Activities will include reviewing books and plays turned into movies. Students would analyze and develop the art of story telling. Students also will have an opportunity to create their own song lyrics, poetry, and performance venues with student selected themes. The focus is on the written word and how it is communicated in an artful manner. *Note: while the use of music is incorporated, this is not a music class.*

Publications

1.5 credits

3 terms

Grades: 11, 12

Career Pathways: 1, 5

Prerequisite: Students must have no disciplinary referrals and/or technology code violations

This course develops skills necessary in producing the North Muskegon High School and Middle School yearbook. Students will learn photography, editing, graphic design and writing skills. Also, students will gain experience in public relations, leadership and computer technology. Students will be required to complete various projects and work independently to meet deadlines with professional quality work. Students are required to participate in various fundraising activities outside of class for the yearbook. Yearbook is a year-long class and requires a year-long commitment from students to complete their tasks in and outside of class.

Communications A (Speech)

.5 credit

1 term

Grades: 10, 11, 12

Career Pathways: 1, 2, 3, 4, 5, 6

Prerequisite: None

This course is dedicated to the multifaceted methods of human communication. Students will spend the majority of the course learning formal skills for public speaking, study the dynamics of group communication, and practice professional interviewing techniques. Students will gain confidence from weekly practice of organizing thoughts and expressing themselves.

MATH

Ryan Berends, Chemistry/Math, Grand Valley State University

Joseph Gentle, Math/Comp Sci/Anthropology, University of Michigan

Al Karaba, Physics/Math, Michigan State University

Charles Wahl, Mechanical Engineering/Physics/Math, Michigan Technological University

Algebra 1 (required)

1 credit

2 terms

Grade: 9

Career Pathways: 2, 3, 4, 5, 6

Prerequisite: none

This course progresses from the use of variables in mathematical expressions to linear sentences, and concludes with the study of quadratic equations. Highlights include slope and intercepts, translations and size changes, graphing, compound interest, exponential growth and decay, and factoring. Algebra I provides the foundation for solving problems mathematically, and integrate preliminary study in geometry, probability, and statistics. *Note: a graphing calculator is **not** required; a scientific calculator (TI-30xa or similar is sufficient).*

Geometry (required)

1 credit

2 terms

Grades: 9, 10

Career Pathways: 2, 3, 4, 5, 6

Prerequisite: Algebra I

This course presents theories of Euclidean Geometry as well as those from other geometries. Students will incur coordinates, transformations, measurement formulas, properties and symmetry of polygons, three-dimensional figures, logical reasoning, and proofs in their study of the visual patterns of figures or shapes.

Algebra II (required)

1 credit

2 terms

Grades: 10, 11

Career Pathways: 2, 3, 4, 5, 6

Prerequisite: Alg I & Geometry

This course emphasizes facility with algebraic expressions and forms, including linear and quadratic forms, powers and roots, and functions. Highlights include the study of matrices, imaginary numbers, logarithms, polynomials, quadratic relations, and the use of a graphing calculator. (TI-84 or TI-83+ is recommended. NMPS does have a limited supply for student loan.) This course also integrates preliminary study in trigonometry.

Senior Math A/B

1 credit

2 terms

Grade: 12

Career Pathways: 2, 3, 4, 5, 6

Prerequisite: Algebra II

This two-term mathematics course meets the requirements of the Michigan Merit Curriculum (MMC) as the 4th-year math requirement. Topics include problem solving, data sampling and set theory, logic, numeration systems, real numbers, a review of algebra topics, geometry topics, probability and statistics, and personal finance. This course is for seniors only, to be taken in their senior year.

Pre-Calculus

1 credit

2 terms

Grade: 11

Career Pathways: 2, 3, 4, 5, 6

Prerequisite: Algebra II

This course is designed to be the final step in preparing students for a high school or college calculus course. The majority of the course work is with various types of functions, including polynomial, rational, exponential, logarithmic and trigonometric functions. Other topics include simplifying algebraic expressions, factoring, sequences, the theory of limits and basic derivatives.

Calculus

1 credit

2 terms

Grade: 12

Career Pathways: 2, 3, 4, 5, 6

Prerequisite: Pre-Cal w/C or higher

This course is designed to prepare students for the first semester of college-level calculus. Topics studied include limits, differentiation, applications of differentiation, integration, exponential and logarithmic functions and calculus, analytical trigonometry, trigonometric functions and calculus. Use of the graphing calculator (TI-84, TI-83+, or TI-86 is preferred but not required. NMPS does **not** have calculators for student loan in calculus.)

SCIENCE

Michael Belmonte, Biology/Science, University of Michigan

Debra Johnson, Biology/Chemistry/Science, University of Michigan

Chuck Wahl, Mechanical Engineering/Physics/Math, Michigan Technological University

Biology A (required)

.5 credit

1 term

Grade: 9

Career Pathways: 2, 3, 4, 5, 6

Prerequisite: none

Students complete their cellular studies with a comprehensive, in-depth examination of the cellular basis of inheritance (cell division) and Mendelian genetic principles. Students will daily develop and practice their critical writing skills, consider cause and effect relationships, and utilize cooperative learning skills. Laboratory procedures and reports constitute a full 1/3 of assessments, with the remaining 2/3rds being quizzes, tests and projects.

Biology B (required)

.5 credit

1 term

Grade: 9

Career Pathways: 2, 3, 4, 5, 6

Prerequisite: none

Human genetics and the implications of the Human Genome Project are explored. The course ends with a unit on natural selection and the other mechanisms of evolution (change over time). Students will daily develop and practice their critical writing skills, consider cause and effect relationships, and utilize cooperative learning skills. Laboratory procedures and reports constitute a full 1/3 of assessments, with the remaining 2/3rds being quizzes, tests and projects.

Introduction to Chemistry .5 credit

1 term

Grades: 10-12

Career Pathways: 2, 3, 4, 5, 6

Prerequisite: Alg I & Biology

This course is an introduction to key concepts in chemistry. Emphasis is placed on concepts of atoms, elements, data analysis, the periodic table, chemical bonding, laboratory techniques, and problem solving skills.

Chemistry A & B 1 credit

2 terms

Grade: 10-12

Career Pathways: 2, 3, 4, 5, 6

Prerequisite: Algebra, Biology A & B

An overview of general chemistry aimed at preparation for college chemistry. Emphasis is placed on concepts in chemical nomenclature, chemical bonding, chemical reactions, laboratory techniques, problem solving skills, qualitative analysis, the gas laws, and acid/base chemistry.

Environmental Science 1.5 credit s

3 terms

Grades: 11, 12

Career Pathways: 2, 3, 4, 5, 6

Prerequisite: Algebra A/B

This course is designed to be the equivalent of a one semester, introductory college course in environmental science. The goal of the Environmental Science 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 or preventing them. Environmental science is interdisciplinary; it embraces a wide variety of topics from geology, biology and chemistry.

This course is an excellent option for any interested student who has completed two years of high school laboratory science—one year of life science and one year of physical science (for example, a year of biology and a year of chemistry). Due to the quantitative analysis that is required in the course, students should also have taken at least one year of algebra. Because of these prerequisites, Environmental Science could be **taken in either the junior or senior year.**

***This course is pending Board of Education approval.**

****If approved, this course is pending AP approval by College Board for 2011-2012, but will run parallel to AP with the intention of students testing in May.**

Human Biology A .5 credit

1 term

Grades: 11, 12

Career Pathways: 3, 4, 6

Prerequisite: Biology

Human Biology A/B is designed for students that enjoyed Biology A/B and desire to continue learning about biology, but do not desire the rigors and challenges of AP Biology. We delve into human anatomy and physiology. The human nervous, digestive, circulatory, and respiratory systems of humans are examined. This course continues to develop and refine student critical writing skills and cooperative learning strategies.

Human Biology B .5 credit

1 term

Grades: 11, 12

Career Pathways: 3, 4, 6

Prerequisite: Biology A, B

The human immune, endocrine, excretory, and reproductive systems are examined. This course continues to develop and refine student critical writing skills and cooperative learning strategies.

AP Biology 1.5 credits 3 terms Grades: 11, 12

Career Pathways: 3, 4 Prerequisite: Biology & teacher rec

This college-prep course is designed to facilitate student achievement on the national AP Bio test proctored annually in mid-May. Students that score well on this comprehensive test earn college credits in biology.

Subjects covered include: the chemistry of life, cellular biology, genes, heredity, the mechanics of evolution, evolutionary history, biological diversity, plant form and function, animal form and function, and ecology.

**Course is offered in alternate years (2012-2013)*

Physics 1 credit 2 terms Grades: 11, 12

Career Pathways: 3, 4, 6 Prerequisite: Algebra 2 A/B

This course blends traditional problem solving physics with laboratory exercises and theory. Concepts of kinematics, momentum, energy, sound, optics, electromagnetism and nuclear change are included.

SOCIAL STUDIES

Doug Clark, Political Science/Physical Education, Hope College
Phil Friesner, Social Studies/Geography/History/Political Science, BGSU
Joseph Grelewicz, Special Education/Social Studies, Calvin College
John Slocum, History/Political Science, Weber State University
Jon Tunney, English/Psychology, Central Michigan University

United States History (required) 1 credit 2 terms Grade: 9

Career Pathways: 1, 2, 3, 4, 5, 6 Prerequisite: none

This course surveys the history of the United States from 1866 to the present. The course is designed to help the student gain a greater understanding of the American experience. Through a deeper understanding of past events, students will come to understand how those events continue to shape what occurs today. Over the course of the year, students will improve their reading, writing, research and critical thinking skills. In addition, we will begin to build a respect and pride for our nation's heritage.

American Government (required) .5 credit 1 term Grade: 10

Career Pathways: 1, 2, 3, 4, 5, 6 Prerequisite: none

This course is intended to be an introduction into the study of American Government. A goal is to make each student an informed and participating citizen with a deep devotion to democracy. This is brought about through a study of the history, structures, and practice of our political system.

Economics (required) .5 credit 1 term Grade: 10

Career Pathways: 1, 2, 3, 4, 5, 6 Prerequisite: none

This course is intended to be an introduction to microeconomics and macroeconomics. The students will gain an understanding of economics from a domestic and global perspective. Topics will include scarcity, economic systems, business organizations, supply and demand, measuring the American economy, taxation, international trade, unemployment, inflation, market structures, and competition.

Current Events*.5 credit 1 term**Grades: 9-12**Career Pathway: 1, 2, 3, 4, 5, 6**Prerequisite: none*

The curriculum of this class will be determined by important events happening on the local, state, national, and international levels. The class will focus on the impact these events have on us, and look at the background of the stories to create more meaning. Students will be expected to demonstrate an enhanced awareness and appreciation for real news that affects one's life.

Michigan History*.5 credit 1 term**Grades: 9-12**Career Pathways: 1, 2, 3, 4, 5, 6**Prerequisite: None*

This course in Michigan History will focus on the influential events, people, and resources that have shaped the State of Michigan. Students will learn from a variety of primary sources and documents, which include, but are not limited to: novels, biographies, journals, interviews, and government documents. Students will also be required to conduct research of these and other primary documents in order to create such things as: case studies, portfolios, debates, maps and graphs, timelines, brochures, profiles and projects.

World Conflicts 1: WWII*.5 credit**1 term**Grades: 11-12**Career Pathways: 1, 2, 3, 4, 5, 6**Prerequisite: None*

This course is a semester course that will study the Second World War. We will begin with the study of Imperial Japan and continue with the study of the rise of Fascism, including the rise of Adolf Hitler, in post World War One Europe. The next unit will focus on the NAZI holocaust and the Final Solution with a comparison and study of acts of genocide since World War two. The final unit of the semester will cover the chronological development of the war itself.

World Conflicts II*.5 credit 1 term**Grades: 11, 12**Career Pathway: 1, 2, 3, 4, 5, 6**Prerequisite: strongly encouraged: US History, World History, World Conflicts I*

This course is a one trimester course that will study all aspects of the Vietnam War, Rwanda Genocide, Israeli/Palestinian Conflict, Sudan (Darfur) Conflict, Columbian Insurrection, Afghanistan, and Iraqi War. These conflicts will be studied from cultural, economic, and political perspectives.

Leadership and Service*.5 credit 1 term**Grades: 10, 11, 12**Career Pathways: 1, 2, 3, 4, 5, 6**Prerequisite: teacher recommendation***Intro to Leadership Principles and Community Service**

This course has been designed with two main goals: encourage students to develop positive leadership qualities and to apply those through serving others. Students will gain knowledge of a variety of leadership styles and practice implementing them in their lives. Students will also participate in community service projects in their school and local community.

World History (required)*1 credit**2 terms**Grade: 11**Career Pathways: 1, 2, 3, 4, 5, 6**Prerequisite: None*

This course takes a comprehensive approach to world history and world events. This course will examine the cause and effect of human interactions of ancient and modern events. There will be a strong emphasis on historical analysis through the use of research, writing, and presentations. Frequent integration of modern events and their root causes in history will be important. Students will use prior knowledge, critical thinking skills, and effective writing techniques when establishing positions on public policy issues in this course.

History of World Religions

.5 credit 1 term Grades: 11, 12

Career Pathways: 1, 2, 3, 4, 5, 6

Prerequisite (Strongly encouraged)
World History, U.S. History

This course surveys 5 of the world major religions. The areas covered will be historical development, practices, beliefs, and the influence that each religion has on the world of today. Religions covered will be **Buddhism, Christianity, Hinduism, Judaism, and Islam.**

Practical Law A

.5 credit 1 term Grades: 11, 12

Career Pathways: 1, 2, 3, 4, 5, 6

Prerequisite: None

This is an introductory class dealing with specific legal issues that students may experience in everyday life. Areas that are studied include consumer law, family law, housing law, workplace rights and responsibilities, criminal law, along with Constitutional Law. The focus is to give the student information as an introduction to law and the legal process.

Practical Law B

.5 credit 1 term Grades: 11, 12

Career Pathways: 1, 2, 3, 4, 5, 6

Prerequisite: None

This is an introductory course in which students will focus on research, analysis of real life cases, and role playing to acquire an understanding of the general principles of the American legal system. Students will study a variety of topics related to the understanding of the law. Students must be willing participants in class discussion and simulations.

Psychology

1 Credit 2 terms Grade: 12

Career Pathways: 1, 2, 3, 4, 5, 6

Prerequisite: None

Students will engage in the scientific study of the brain, mental processes, and human behavior. Topics include brain structure and function, consciousness, learning and memory, intelligence, motivation, emotion, gender and relationships, personality, psychological disorders, stress, and therapy. Additional course goals include learning to look objectively at one's own behavior and recognizing the various forces of neurochemistry, heredity, and environment which shape one's identity. The student also gains insight into the behavior of others, societal forces, and personal relationships.

TECHNICAL CLASSES @ CAREER TECH CENTER

Each course is a block-format taken at the Career Tech Center or "affiliate sites". Students must utilize school transportation and be able to manage being a student within two different campuses for ½ of the school day. These courses are only for juniors and seniors. Credit articulation is available for CTC courses; see individual courses for course articulation alignments. For more information, go to www.muskegonisd.org and click on "Career Tech Center".

Financial Management

Do you want to find out how to make your money work for you? Learning to develop and work with a budget is an important skill for your future. This class will help you learn how to do exactly that. By the time you finish, you will have training on income statements, checking and savings accounts, gross profit, and return on investment. In Accounting/Financial Management, you will explore your career options that interest you most and develop the skills you will need to be successful. Internet research, group projects, professional etiquette, and presentation skills are all a part of this course. Meeting new students from other area schools with the same interests is an added bonus. Join us to learn about being on your own and making it! *Articulation=4th year Math or English*

Architectural & Mechanical Computer Aided Design

Do you want to design a house or other buildings? Or how about designing cars? In this class you will use the latest CAD software on state-of-the-art equipment to take an idea from concept to product. Throughout this program you will learn 2D and 3D modeling skills. You may even have the opportunity to gain real world experience through on-the-job training in this ever-growing field. *Articulation=4th year Math or Geometry*

Auto Body Technology

The auto body repair industry is changing as quickly as the computer industry, making it an exciting career option. Vehicles are now made with new space-age plastics and high-tech electrical systems. Auto collision repair and refinishing technicians work on vehicles damaged as a result of collision and wear. This National Automotive Technicians Education Foundation (N.A.T.E.F.) certified program will prepare you to estimate damages, repair, and refinish vehicles. Work-based learning opportunities and related academic coursework will prepare you to make the crucial decisions required in today's extremely competitive and technical auto body industry. *Articulation=4th year Math*

Auto Service Technology

With 195 million vehicles on the road today, the demand for skilled technicians has never been greater. Our Auto Service program has been training professional technicians for nearly 30 years and is certified by the National Automotive Technicians Education Foundation (N.A.T.E.F.). You will learn automotive brakes, steering and suspension systems, fuel injection, automotive electrical and electronic systems, and engine diagnostics among other skills. Internships, state testing, and personal skill development are all part of this exciting program. *Articulation=4th year Math*

Commercial Art

*Muskegon Community College
Stevenson Higher Ed Center*

Newspapers, magazines, books, billboards, logos for businesses, the Internet, television and movies– the visual communication industry needs creative individuals to illustrate the next century. Create original artwork and recreate your designs on Apple G5 17-inch flat screens with Adobe software. Get to know the industry-based software including GoLive, Illustrator, InDesign, and Photoshop. As designers, you will learn the stages of design, the ability to collaborate in groups, and explore the many careers connected to the world of art. You will learn airbrushing, animation, painting, photography, digital imaging, and a full range of illustration techniques. Real-world assignments are based on the elements and principals of design. In addition, you will develop a portfolio to support your resume or use to gain admission to a college or university. *Articulation=4th year Math or Visual Arts*

Construction Trades

Habitat for Humanity Building Site

Currently, the industry demand for construction workers is high. As a growing industry, construction offers you career opportunities with solid futures. Be a part of a MACTC and Habitat for Humanity team that builds a home from the foundation to completion. You will learn skills for working in the residential, commercial, and remodeling industries. Blueprint reading, formwork, framing, roofing, siding, wiring, plumbing, interior and exterior trim, insulation, and drywall are just some of the skills you will develop. School to Career programs, through a unique Contractor/Union partnership, can lead to apprenticeship opportunities that will insure your future success. *Articulation=4th year Math*

Construction Trades - LEED

Leadership in Energy and Environmental Design

Our newest Career Tech Center program has been designed to teach students the basics in residential construction incorporating environmentally friendly (green build) and Energy Star® features. Using U.S. Green Building Council guidelines, students will build the house from the ground up focusing on environmental performance in several categories. Categories include site choice and preparation, energy and water use, building and finishing materials, quality of indoor air, and the skills and knowledge necessary to build a LEED certified home.

Enrollment for Construction Trades LEED is recommended for returning seniors from our Habitat for Humanity home build or seniors who have not been able to dedicate two years to the construction program. *Articulation=4th year Math*

Cosmetology

Booker Institute of Cosmetology

We all like to look our best. As a cosmetologist, you will learn the latest beauty industry techniques in skin, nail, and hair care. Apply what you learn during lecture through hands-on experience in hair cutting, styling, dying, and shampooing. If you enjoy helping people look and feel their best and want a fast paced, progressive career, then Cosmetology may be the place for you. Our 1500-hour program will provide techniques and the training you will need to prepare for the State of Michigan Cosmetology Licensing Examination. *Articulation=Visual Arts*

Early Childhood Development

The Early Childhood Development program will prepare you for employment in educational, residential, and institutional childcare facilities and programs. In addition to a core of foundation skills that are common to the Human Services pathway, our program includes instruction in child growth and development; child health, nutrition, and safety; planning and supervision of developmentally appropriate play and learning activities; child guidance; relationships with family members; applicable legal and administrative requirements; and preparation for the development and management of effective early childhood programs and facilities. *Articulation= English*

Electrical/Electronic Technologies

Electrical/Electronic Technologies (EET) is the core of many career fields including telecommunications, computer maintenance, computer control systems, residential wiring, and industrial maintenance. You will use state-of-the-art equipment to monitor electrical devices and circuits, develop troubleshooting skills, and gain an understanding of electronics. Beyond the core electronics fundamentals, EET concentrates instruction on three additional areas: PC Maintenance, Electro-Mechanical, and Home Technology Integration (HTI). Students earning HTI and PC Maintenance A+ certification are in high demand. *Articulation=4th year Math or 3rd year Science*

Graphic Arts & Printing

Muskegon Community College Stevenson Higher Ed Center

Graphic Arts & Printing is the third largest industry in the United States and has been identified as a high growth occupational field with above average earnings. Our high-tech program offers you the opportunity to learn and work with cutting edge, industry standard equipment. Learn to use Illustrator, InDesign, Photoshop, and Quark XPress. This training will prepare you for a career in electronic pre-press operation, film imaging and scanner operations, offset and screen-printing, or bindery and packaging. As part of a team, you will work with live jobs gaining technical expertise, as well as important employability and customer service skills. *Articulation=4th year Math or Visual Arts*

Health Services

Health Services is designed to prepare you to provide basic nursing care to the patient. This course explores direct patient care, nutrition and feeding, body structure, and vital signs. You will explore various health related careers and community health problems and resources as well. Students successfully completing the theory and classroom instruction will participate in clinical work experiences at a local nursing home earning a certificate that documents clinical hours and skills. Upon successful completion of the program, you will be eligible to take a written and clinical test for State certification as a Nursing Aide. *Articulation= English or 3rd year Science*

Heating, Ventilation, Air Conditioning/Refrigeration

Get the knowledge and develop the skills you need to install, repair, and maintain heating, ventilation, air conditioning, and refrigeration systems while using the equipment utilized by industry trainers on the actual job. Scientific principles of heat transfer, electrical ventilation, hydronics, and control systems are basic to the HVAC/R program and industry. In addition, you will learn about environmental rules and demonstrate the basic skills required

to install residential and light commercial HVAC/R systems. *Articulation=4th year Math*

Landscaping and Greenhouse Management

Do you enjoy playing in the dirt? Are you interested in starting your own landscape design and maintenance business or running your own greenhouse? Then this is the place for you! Learn how to design a landscape plan, create floral arrangements, grow plants in a greenhouse, plant a garden, grow with hydroponics, care for our natural resources and more. As a Landscaping and Greenhouse Management student you'll also compete in state leadership events, floral design contests and go on exciting field trips as part of the National FFA Organization. This class takes going-green to a whole new level! *Articulation= English or 3rd year Science*

Internet, Network & Security Technologies

Earn an industry-recognized certification as an Internet Web Master (Internet Technologies, Site Development and Networking), Security Professional, and/or a Web Server Administrator in our Internet, Network & Security Technologies program. INST offers you access to state-of-the-art technology and the opportunity to achieve valuable and marketable skills – and have fun doing it! The top seven job growth areas in Michigan and the U.S. are in the Information Technology industry. Join us to learn the skills needed in the exciting, ever-changing world of Internet, Network & Security Technologies. *Articulation=4th year Math or English*

Machine Tool Technologies

Machining is a manufacturing requirement to all industries worldwide. This industry represents high-tech manufacturing with high levels of accuracy and dependability. Local job opportunities and wages are above average compared to most occupational areas. As a machining student, you will learn tolerancing, precision measurement, how to calculate speed and feeds, and blueprint reading. Learn machine operation and setup of lathes, mills, drill presses, grinders, CNC programming, and operations as you manufacture real-world projects gaining valuable hands-on experience. *Articulation=4th year Math*

Marketing/E-Commerce

Gain hands-on experience at “Essentials,” our school store located in the Career Tech Center. Prepare yourself for employment in sales, customer service, advertising, promotion, and first-line supervisory positions. In Marketing/E-Commerce, you will explore, understand, and apply marketing, management, and entrepreneurial principles. Learn the technical skills you will need for an entry-level Marketing/E-Commerce occupation using the internet to advertise and sell goods and services. Develop life management, business, and leadership skills through participation in DECA (Distributive Education Club of America), the career and technical student organization. *Articulation=4th year Math or English*

Public Safety/Protective Services

Law enforcement officer, firefighter, EMT, dispatcher, probation officer, park ranger, crime scene investigator, first responder: thousands of challenging educational and training opportunities awaits you in the highly skilled world of Public Safety/Protective Services. In this course, you will get the knowledge and skills you will need to advance into a post-secondary program. This course reviews the legal justice system and helps you develop a better understanding of state, federal, and international law. You will also be tested for Cardio-Pulmonary Resuscitation (CPR) certification. *Articulation=English*

Rehab Tech

Careers in Sports Medicine and Rehabilitation Services have experienced phenomenal growth over the past decade. The demand for trained professionals is projected to remain high for many years. Our Rehab Tech program helps prepare you for a career in this exciting area. This course covers body systems and how they develop over a lifespan, wellness maintenance, injury prevention, therapeutic exercise, ambulation training, clinical documentation, and therapeutic assistance involving patients with various physical, emotional, and developmental disabilities. *Articulation=English or 3rd year Science*

Restaurant, Catering & Culinary Management

Gain valuable skills and experience working with the most modern equipment in the Harvey Street Café, our student-run restaurant and conference center. Learn food preparation, baking, sanitation, banquet and customer services, menu planning, and food service management techniques that will prepare you for employment. You can also earn ServSafe® Manager Certification, the most widely recognized credential in food safety and sanitation.

Articulation=4th year Math or English

Welding

Welding is accepted as the most economical, efficient, and practical method to join all metals. Skyscrapers, bridges, ships, boilers, pipelines, and appliances are produced using the welding process. In this class you will learn print reading, fabrication, brazing, and flame cutting as well as oxy-fuel, GTAW (TIG), GMAW (MIG), SMAW (stick welding), and pipe welding. Advance at your own rate and earn industry certifications and/or participate in work-based learning. Classroom instruction combined with hands-on training in our modern lab offer you career opportunities in production, maintenance/repairs, shipbuilding, tool and die, pressure vessel, and pipe welding.

Articulation=4th year Math