



Schoolcraft High School
Curriculum Guide
2011-12

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Course Information

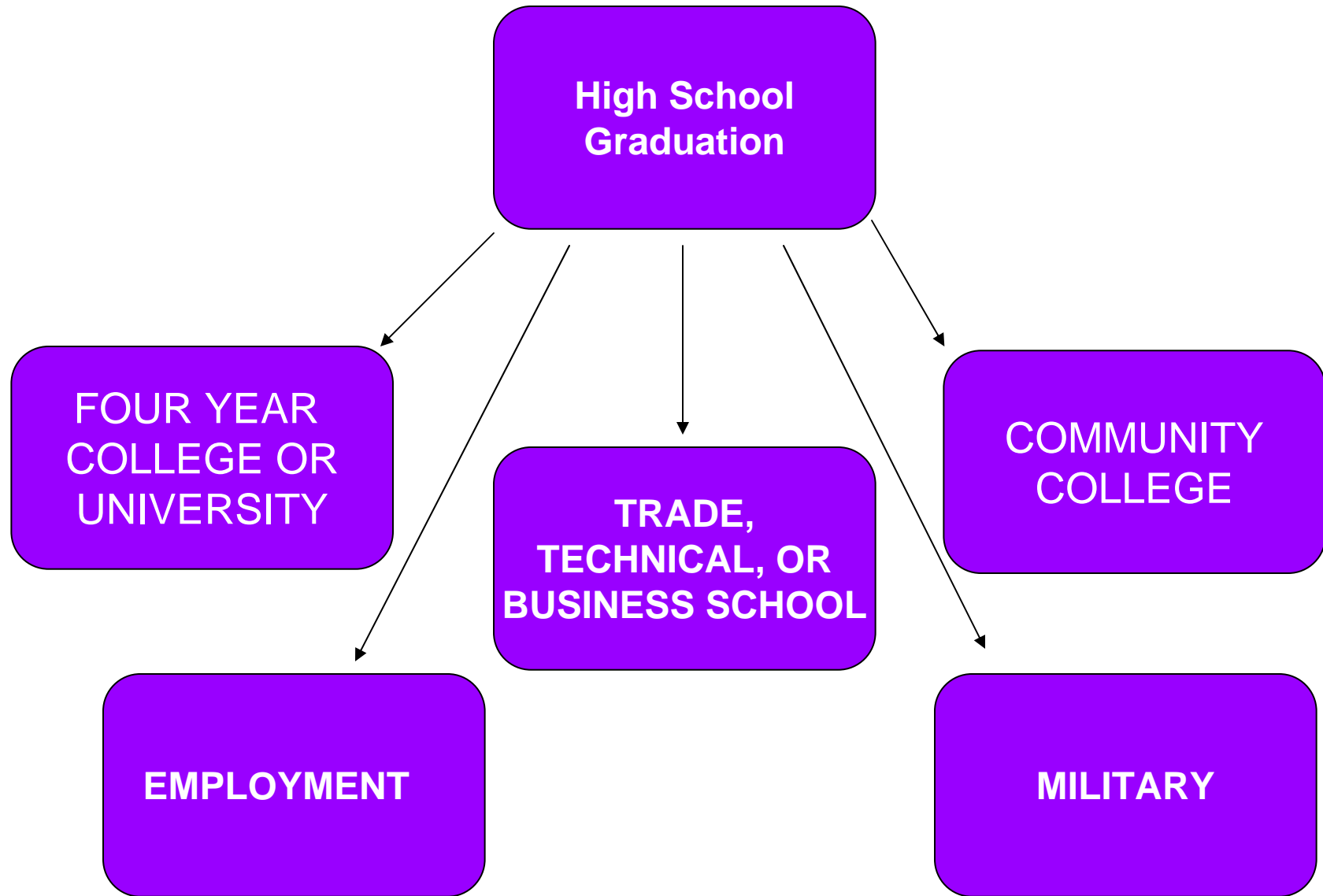
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WHERE AM I GOING?

HOW WILL I GET THERE?

SET GOALS.
CHOOSE A PATHWAY.
DEVELOP A PLAN!

CAREER PATHWAYS



Mission Statement

We, the staff of Schoolcraft High School, believe all students are capable of learning.

We, therefore, commit ourselves to providing all our students the opportunity to reach their maximum potential of academic and social challenges with the goal of becoming responsible, productive members of our society.

INTRODUCTION

One of our goals at Schoolcraft High School is to provide a curriculum, which will allow students a variety of experiences from which they can make future life decisions. Each student, regardless of his/her occupational or vocational interests, has the opportunity to select a Career Pathway, which will qualify him/her for further technical training or college eligibility. The curriculum will also allow the student to combine college preparatory courses with more specific vocational training within their chosen pathway.

This handbook has been prepared to assist students in making these decisions. It is hoped that students and parents will discuss the various career pathways offered, and make selections that best fit his/her needs and interests.

A successful high school experience is no accident. It is a result of proper planning and preparation by students, parents and school. We encourage students and parents to communicate freely with the counselor, teaching staff and principal, as they choose a Career Pathway and prepare an Educational Development Plan (E.D.P.).

GENERAL RECOMMENDATIONS

1. Discuss your future plans with your parents, their advice should be an integral part of your final decision.
2. Read this handbook carefully and select courses consistent with your Career Pathway. Develop a program for all four years, while realizing it may change many times.
3. Consult teachers about specific classes and pathways. Teachers can provide information too detailed to be written, and they can also make recommendations based on the student's abilities and interests.
4. Work with the counselor, who will help you review and interpret your abilities, aptitudes, interests, experiences, study skills, achievement levels and future goals.
5. Realize, while there are many possible E.D.P.'s, every student is an individual and each E.D.P. should reflect the individual students needs.

PLANNING AN E.D.P.

Before beginning an Educational Development Plan, parents and students will want to review the Schoolcraft Board of Education graduation requirements.

Specific course requirements for career planning will vary. Therefore, it is suggested that students and parents meet with the counselor concerning specific classes needed to reach occupational goals, plans for higher education, social and academic adjustments or the appropriateness of specific selections. Together, an E.D.P. can be prepared, using all available resources, which reflects the individual uniqueness of each student.

The student's completed E.D.P. will be kept on file in the Guidance Office, where it can be updated each year to accommodate any changes the student makes in his/her career goals.

GRADUATION POLICIES

In order to graduate from Schoolcraft High School, a student must:

1. Successfully complete all academic requirements.
2. Complete, with appropriate effort, the Michigan Merit Exam (MME).
3. Be in compliance with the existing attendance policies (Detailed in Student Handbook) as a full time student.
4. Attend high school for a minimum of eight (8) full semesters before graduation.

Participation in graduation exercises will be limited to seniors in good standing who have completed the requirements for graduation. The above conditions may be waived or altered upon the recommendation of the administration and approval of the Board of Education.

ACADEMIC GRADUATION REQUIREMENTS

A minimum of twenty-four (24) credits are required for graduation, seventeen (17) required core credits and seven (7) elective credits.

English	4 credits
Mathematics	4 credits
Science	3 credits
Social Studies	3 credits
Visual, Performing or Applied Arts, Online(BMA)	1 credit
Physical Ed./Health	1 credit
Speech	½ credit
Consumers Education	½ credit

RECOMMENDED CORE CREDITS BY GRADE

9th Grade:

English I or Honors English I

Algebra I or Geometry

Earth Science

World History

Physical Education/Health

10th Grade:

English II or Honors English II

Geometry or Algebra II or Algebra IIA

Biology

US. History

BMA

11th Grade:

English III or Honors English III

Algebra II or Algebra IIA or Algebra IIB
or Trig/Pre Calculus

Chemistry or Physics

US Government/Economics

Speech/Consumers Education

12th Grade:

English IV or Honors English IV

Algebra IIB or Trig/PreCalc or

Calculus or Other Math

CAREER
PATHWAYS

WHY THINK ABOUT THE FUTURE?

You've got plenty to think about in high school, so why spend time considering career possibilities that are far in the future?

Here's why:

- People are happiest with careers that let them use their strengths and interests. It takes time and planning to identify those characteristics and match them up with possible occupations and leisure activities.
- The labor force is growing at a rapid rate. Those who prepare early and gain the skills they need, will have an edge when it comes to getting the top jobs.
- As companies continue to downsize and make changes in the way they do business, more people will find themselves competing for jobs. Better-qualified people will be the most successful at transferring to new jobs, so they will have greater job security.
- Employers are looking for people who are flexible, adaptable, creative, and well educated. It's never too soon to start developing these traits.

START THINKING ABOUT YOUR FUTURE

Start planning now. This planner has lots of information to help you make some career decisions, have experiences that let you think more about your choices, and design plans that will help you reach your career goals. The planner uses career pathways as a tool to present career information and help you focus your exploration and planning.

Career Pathways...

...Present clusters of occupations that require different levels of education and training. People working in a career path share interests, abilities, and talents.

...Help you identify a career focus without being locked into a specific occupation. With career paths, you're able to begin preparing for a career, but you still have the flexibility you need in today's constantly shifting work world.

Career Paths Involve...

...everyone! No matter what your interests and talents are, or what your plans are for after high school, exploring career paths can expand your choices for the future. All paths are important; we need all of them to keep our community going.

Exploring Career Paths...

...can help you focus on your future. You don't have to choose a specific occupation for the rest of your life. Instead, you'll find out about all of the career paths and the occupations in them. You'll also be able to see a connection between the things you study in school (like math, science, language arts, and social studies) and your future career.

Changing Career Paths...

...is no big deal. When it comes to careers, it's not unusual to change your mind. Today's adults may change occupations seven or eight times. In fact, many of the jobs that will be available to you in the next century don't even exist yet! Even after you've picked a career path to focus your planning around, you can always change your mind and pick another path at any point. Best of all, your work in the first path won't be wasted; you'll have learned things you can take with you to any other career path.

The first step in planning for your future career is to find out more about all of the career paths, and about yourself. So let's get on with it...

CAREER PATHWAYS

The Schoolcraft Schools Career Pathway program of studies represents a commitment to the students in our community. This system creates well-marked “paths” of sequenced courses that provides both focus and direction to a student’s learning experience. Pathways connect the student to post-secondary education and the world of work.

Each Pathway provides both a Technical Career focus, which prepares students for community college, technical/trade School, or other post secondary training, and a Professional Career focus, which leads to a four-year college/university.

SIX CAREER PATHWAYS

Arts and Communications: careers related to the humanities, the performing, visual, literary, and media arts.

Business, Management, Marketing, and Technology: careers related to all aspects of business including accounting, business administration, finance, information processing, and marketing.

Engineering/Manufacturing and Industrial Technology: careers related to technologies necessary to design, develop, install, or maintain physical systems.

Health Sciences: careers related to the promotion of health as well as the treatment of injuries, conditions and disease.

Human Services: includes careers in childcare, civil service, education, hospitality, and the social services.

Natural Resources and Agri-science: careers related to natural resources, agriculture, and the environment.

Career Pathways give flexible structure to the student career choice process. After selecting a pathway, the student can develop an Educational Development Plan (E.D.P.) which will serve as a guide in selecting high school courses.

EDUCATIONAL DEVELOPMENT PLAN (EDP)

Pathway:

Arts & Communications (Page 13-15)

Business Management & Marketing Technology
(Page 17-19)

Engineering/Manufacturing & Industrial Technology
(Page 21-23)

Health Sciences (Page 25-27)

Human Services (Page 29-31)

Natural Resources & Agriscience (Page 33-35)

Career Focus:

Technical

Professional

Career Goal: _____

9th Grade

English: English I or Honors Eng. I

Math: Algebra I or Geometry

Earth Science

World History

Physical Ed./Health

10th Grade

English: English II or Honors English II

Math: Geometry or Algebra II or Algebra IIA

Biology

US History

BMA

11th Grade

English:English III or Honors English III

Math:Algebra II or Algebra IIA or Algebra IIB or Trig/PreCalc

Science:Chemistry or Physics

US Government/Economics

Speech/Consumers Education

12th Grade

English:English IV or Honors English IV

Math:Algebra IIB or Trig/PreCalculus or Calculus or Senior Math

ARTS AND COMMUNICATIONS

Sample of Technical Careers

If you answers **YES**

To more than half of these questions,
This path may have a career for you!

Characteristics of this pathway:

- Are you a creative thinker?
- Are you imaginative, innovative, and original?
- Do you like to communicate ideas?
- Can you envision yourself as a musician, newscaster, photographer, or technical writer?

Interests and abilities typical of this pathway:

Do you have...

- Strong communication and interpersonal skills?
- A special talent in performing (acting, singing, or dancing)?
- The ability to write or draw creatively?

- Accompanist
- Actor/Actress
- Artist
- Assistant Writer/Editor
- Assistant News Writer
- Assistant Choreographer
- Assistant Colorist
- Audio Service Technician
- Band/Orchestra Member
- Broadcast Technician
- Camera Operator
- Chorus Member
- Colorist
- Commercial Artist
- Computer Graphic
- Costume Designer
- Dancer
- Darkroom Technician
- Director's Assistant
- Disc Jockey
- Electronics Technician
- Engraver
- Fashion Design Technician
- Fiber Optics Tech.
- Floral Designer
- Graphic Artist
- Illustrator
- Journalism Technician
- Layout Planner
- Light Technician
- Musician
- Network Control Technician
- Painter
- Photo/Film Finisher
- Press Operator
- Producer
- Production Manager
- Sculptor
- Set Builder
- Set Director
- Sound Technician
- Studio Composer
- Studio Musician
- Technical Artist
- Technical Writer Assistant
- Theatre Technician
- Video Conferencing Tech.
- Video/Radio/TV Technician

ARTS AND COMMUNICATIONS

Sample Professional Careers

If you answers **YES**

To more than half of these questions,
This path may have a career for you!

Characteristics of this pathway:

- Are you a creative thinker?
- Are you imaginative, innovative, and original?
- Do you like to communicate ideas?
- Can you envision yourself as a musician, newscaster, photographer, or technical writer?

Interests and abilities typical of this pathway:

Do you have...

- Strong communication and interpersonal skills?
- A special talent in performing (acting, singing, or dancing)?
- The ability to write or draw creatively?

- Accompanist
- Actor/Actress
- Architect
- Art Director
- Artist
- Author
- Band/Orchestra Member
- Cartoonist
- Choreographer
- Commercial Artist
- Composer
- Dancer
- Data Comm. Engineer
- Director
- Drafter
- Editor
- Electronic Mail Specialist
- Fashion Design
- Fiber Optics System Specialist
- Graphic Designer
- Media Announcer
- Model
- Music Teacher
- Music Therapist
- Musician
- Newspaper Columnist
- Painter
- Photographer
- Producer
- Production Manager
- Professional Athlete
- Public Relations Specialist
- Publisher
- Radio/TV Broadcaster
- Satellite Systems Engineer
- Sculptor
- Set Designer
- Set Director
- Silversmith
- Sound Director
- Stage Manager
- Technical Artist
- Technical Writer
- Theatre Manager
- Voice Communications Mgr.
- Writer

ARTS AND COMMUNICATIONS

Technical Career Focus

GRADUATION CORE:

9th Grade
 English I or Hon. Eng.I
 Algebra or Geometry
 World History
 Earth Science
 Physical Ed./Health

10th Grade
 English II or Hon. Eng. II
 Geometry or Algebra II
 US History
 Biology
 BMA

11th Grade
 English III or Hon. Eng. III
 Alg. II or Alg IIA or
 Trig/Pre-Calculus
 Chemistry or Physics
 US Government/Econ
 Speech/Consumers Ed.

12th Grade
 English IV or Hon. Eng.IV
 Alg. IIB or Math

CAREER ELECTIVES:

Art I, II, Exploration
 •Band
 •Vocal Music
 •Yearbook
 •Co-op
 •EfE:
 Art & Design Career Skills
 Theatre Technology Internship
 Photography – Digital Imaging
 Radio Broadcasting
 Digital Video Production
 •EfA:
 Dance I: Beg. Tech. & Choreography
 Dance II: Adv. Tech. & Choreography
 Integrated Dance/Health/PE
 Digital Video and Film
 Design for Digital Media
 Intro. To Media Design Online
 Advanced Multimedia Arts
 Theatre Practice and Performance
 Advanced Musical Theatre Workshop
 Music for Life
 Advanced 2-D Art
 Advanced 3-D art
 Four Weekends at the KIA

ENRICHMENT ELECTIVES:

Spanish I
 Spanish II
 Spanish III
 Essential Living
 Fam. Iss./Parenting
 Psych/Soc
 Cont. Global Issues
 Advanced P.E.
 Phys. Training
 Chemistry
 Anat. Physiology
 Physics
 Trig./Pre-Calc.
 Calculus
 EfE/EfA
 Dual Enroll
 Michigan Virtual HS
 Study Hall

ARTS AND COMMUNICATIONS

Technical Career Focus

Education for Employment (EFE) and Education for the Arts (EFA) related courses

Education for Employment (EFE)

Accounting - College	Electronics and Robotics
Accounting/Finance	EMT
Animal Tech.	Fundamentals of Health Science
Auto Technology	Furniture & Cabinetmaking
Aviation Technology	Health Sciences
Banking	Heating, Air Cond. & Refrig..
Business Management Adm. (BMA)	Hotel, Restaurant, Travel Management
Computer Tech/Dynamic Web Prog.	Law Enforcement
Construction Trades	Machine Tool
CO-OP	Marketing Education
Culinary Arts	Network Admin.
Dental Assisting	Teacher Cadet
Drafting Technology	Veterinary Science
Early Childhood Education	Welding
Electrical Technology	Wind Energy Technology

Education for the Arts (EFA)

Advanced 2-D Art
Advanced 3-D Art
Advanced Multimedia Arts
Advanced Musical Theatre Workshop
Dance I: Beg. Tech. & Choreography
Dance II: Adv. Tech. & Choreography
Digital Video and Film
Four Weekends at the KIA
Integrated Dance/Health/PE
Intro. To Media Design Online
Music for Life
Theatre Practice and Performance

ARTS AND COMMUNICATIONS

Professional Career Focus

GRADUATION CORE:

9th Grade

English I or Hon. Eng.I
 Algebra or Geometry
 World History
 Earth Science
 Physical Ed./Health

10th Grade

English II or Hon. Eng. II
 Geometry or Algebra II
 US History
 Biology
 BMA

11th Grade

English III or Hon. Eng. III
 Alg. II or Alg IIA or
 Trig/Pre-Calculus
 Chemistry or Physics
 US Government/Econ
 Speech/Consumers Ed.

12th Grade

English IV or Hon. Eng.IV
 Alg. IIB or Math

CAREER ELECTIVES:

- Spanish I, II, III
- Art T, II, Exploration
- Band
- Vocal Music
- Yearbook
- Psych/Soc.
- Cont. Global Issues
- Chemistry
- Anat./Physiology
- Physics
- Trig/Pre-Calc
- EfE:
- Art & Design Career Skills
- Theatre Technology
- Internship
- Photography – Digital
- Imaging
- Radio Broadcasting
- Digital Video Production

- EfA:
- Dance I: Beg. Tech. & Choreography
- Dance II: Adv. Tech. & Choreography
- Integrated Dance/Health/PE
- Digital Video and Film
- Design for Digital Media
- Intro. To Media Design Online
- Advanced Multimedia Arts
- Theatre Practice and Performance
- Advanced Musical Theatre Workshop
- Music for Life
- Advanced 2-D Art
- Advanced 3-D art
- Four Weekends at the KIA

ENRICHMENT ELECTIVES:

- Essential Living
- Calculus
- Co-op
- Michigan Virtual HS
- Physical Education
- EFE/EFA
- Dual Enrollment
- Study Hall

ARTS AND COMMUNICATIONS

Professional Career Focus

Education for Employment (EFE) and Education for the Arts (EFA) related courses

Education for Employment (EfE)

Accounting - College	Electronics and Robotics
Accounting/Finance	EMT
Animal Tech.	Fundamentals of Health Science
Auto Technology	Furniture & Cabinetmaking
Aviation Technology	Health Sciences
Banking	Heating, Air Cond. & Refrig.
Business Management Adm. (BMA)	Hotel, Restaurant, Travel Management
Computer Tech/Dynamic Web Prog.	Law Enforcement
Construction Trades	Machine Tool
CO-OP	Marketing Education
Cosmetology	Network Administration
Culinary Arts	Network Admin.
Dental Assisting	Teacher Cadet
Digital Video Production	Veterinary Science
Drafting Technology	Welding
Early Childhood Education	Wind Energy Technology
Electrical Technology	

Education for the Arts (EfA)

Advanced 2-D Art
Advanced 3-D Art
Advanced Multimedia Arts
Advanced Musical Theatre Workshop
Dance I: Beg. Tech. & Choreography
Dance II: Adv. Tech. & Choreography
Digital Video and Film
Design for Digital Media
Four Weekends at the KIA
Integrated Dance/Health/PE
Intro. To Media Design Online
Music for Life
Theatre Practice and Performance

BUSINESS, MANAGEMENT, MARKETING & TECHNOLOGY

If you answers **YES**

To more than half of these questions,

This path may have a career for you!

Characteristics of this pathway:

Do you enjoy...

- Work that involves convincing others of your point of view?
- Work with ideas, products, people?
- Working with computer technology?
- Working in a competitive work environment?
- Work which is structured, with clear guidelines?
- Working indoors?
- Planning and directing the activities of an organization?

Interests and abilities typical of this pathway:

Do you have...

- Strong communication and interpersonal skills?
- The ability to think logically and make decisions?
- The desire to perform detail work with numbers or words?
- The ability to meet and talk with new acquaintances?
- The ability to inspire customer confidence?

Sample of Technical Careers

Advertising Agent	General Office Clerk
Art Director	Hotel Clerk
Ass't Distribution Manager	Information Clerk
Ass't Public Relations Officer	Insurance Adjuster
Ass't Sales Manager	Insurance Agent
Assistant Accountant	Legal Secretary
Assi't Accountant	Loan Officer
Ass't Buyer	Marketing Researcher
Automobile Salesperson	Medical Secretary
Bank Teller	Merchandise Displayer
Billing Clerk	Microcomputer App Clerk
Bookkeeper	Paralegal
Business Management	Payroll Clerk
Claims Examiner	Project Director
Computer Info. System. Asst.	Real Estate Agent
Computer Operator	Real Estate Appraiser
Computer Programmer	Receiving Clerk
Computer Technician	Receptionist
Copywriter	Sales Person
Court Reporter	Sales Representative
Credit Analyst	Secretary
Credit Clerk	Shipping Clerk
Data Entry Technician	Small Business Manager
Data Processing	Specialist Stock Clerk
Department Manager	Trade Show Exhibitor
Entrepreneur	Travel Agent
Executive Assistant	Word Processing Specialist
Executive Secretary	
File Secretary	

BUSINESS, MANAGEMENT, MARKETING & TECHNOLOGY

If you answers **YES**

To more than half of these questions,

This path may have a career for you!

Characteristics of this pathway:

Do you enjoy...

Work that involves convincing others of your point of view?

Work with ideas, products, people?

Working with computer technology?

Working in a competitive work environment?

Work which is structured, with clear guidelines?

Working indoors?

Planning and directing the activities of an organization?

Interests and abilities typical of this pathway:

Do you have...

- Strong communication and interpersonal skills?
- The ability to think logically and make decisions?
- The desire to perform detail work with numbers or words?
- The ability to meet and talk with new acquaintances?
- The ability to inspire customer confidence?

Sample of Professional Careers

Account Executive

Accountant

Actuary

Administrative Assistant

Administrative Service Manager

Advertising Director

Agency Manager

Analysis Consultant

Auditor

Auditor/Controller

Automobile Dealer

Bank Manager

Budget Analyst

Business Manager

Certified Managerial Accountant

Certified Public Accountant

Clerical Supervisor

Computer Scientist

Controller

Corporate Manager

Credit Union Manager

Data Processing Manager

Data Processing Supervisor

Distribution Manager

Entrepreneur

Financial Analyst

Foods Manager

Hotel Manager

Hotel Night Auditor

International Manager

Loan Officer

Lobbyist/public Relations

Management

Manufacturer's Rep.

Marketing Research Analyst

Network Engineer/Analyst

Operations Research Analyst

Purchaser

Purchasing Agent/Buyer

Rate Analyst

Real Estate Broker

Retail Manager

Risk Manager

Sales Manager

Small Business Owner

Stock Broker

Systems Analyst

Systems Designer

Tele-Marketing Manager

Wholesale Manager

BUSINESS, MANAGEMENT, MARKETING & TECHNOLOGY

GRADUATION CORE:

Technical Career Focus

9th Grade
 English I or Hon. Eng.I
 Algebra or Geometry
 World History
 Earth Science
 Physical Ed./Health

10th Grade
 English II or Hon. Eng. II
 Geometry or Algebra II
 US History
 Biology
 BMA

11th Grade
 English III or Hon. Eng. III
 Alg. II or Alg IIA or
 Trig/Pre-Calculus
 Chemistry or Physics
 US Government/Econ
 Speech/Consumers Ed.

12th Grade
 English IV or Hon. Eng.IV
 Alg. IIB or Math

CAREER ELECTIVES:

- Yearbook
- Co-op
- EFE:
 Accounting-College
 Accounting/Finance
 Banking
 Business Management Adm (BMA)
 Computer Tech/Dynamic Web Prog.
 Hotel, Restaurant & Travel Mgmt.
 Marketing
 Network Administration

ENRICHMENT ELECTIVES:

- | | |
|------------------|---------------------|
| Spanish I | Psych/Soc |
| Spanish II | Cont. Global Issues |
| Spanish III | Physical Training |
| Art I | Chemistry |
| Art II | Anat/Physiology |
| Art Exploration | Physics |
| Band | Trig./Pre-Calc |
| Essential Living | Calculus |
| Vocal Music | EFE/EFA |
| | Dual Enrollment |
| | Michigan Virtual HS |
| | Study Hall |

BUSINESS, MANAGEMENT, MARKETING AND TECHNOLOGY

Technical Career Focus

Education for Employment (EFE) and Education for the Arts (EFA) related courses

Education for Employment (Efe)

Animal Tech.	Electronics and Robotics
Art & Design Career Skills	EMT
Auto Technology	Fundamentals of Health Science
Aviation Technology	Furniture & Cabinetmaking
Co-op	Health Science.
Cosmetology	Heating, Air Cond. & Refrig.
Culinary Arts	Law Enforcement
Dental Assisting	Machine Tool
Digital Video Production	Photography-Digital Imaging
Drafting Tech	Radio Broadcasting
Early Childhood Education	Theatre Technology Internship
Electronic and Robotics	Veterinary Science
Drafting Technology	Welding
Early Childhood Education	Wind Energy Technology
Electrical Technology	

Education for the Arts (Efa)

Advanced 2-D Art
Advanced 3-D Art
Advanced Multimedia Arts
Advanced Musical Theatre Workshop
Dance I: Beg. Tech. & Choreography
Dance II: Adv. Tech. & Choreography
Digital Video and Film
Design for Digital Media
Four Weekends at the KIA
Integrated Dance/Health/PE
Intro. To Media Design Online
Music for Life
Theatre Practice and Performance

BUSINESS, MANAGEMENT, MARKETING & TECHNOLOGY

GRADUATION CORE:

Professional Career Focus

9th Grade

English I or Hon. Eng.I
 Algebra or Geometry
 World History
 Earth Science
 Physical Ed./Health

10th Grade

English II or Hon. Eng. II
 Geometry or Algebra II
 US History
 Biology
 BMA

11th Grade

English III or Hon. Eng. III
 Alg. II or Alg IIA or
 Trig/Pre-Calculus
 Chemistry or Physics
 US Government/Econ
 Speech/Consumers Ed.

12th Grade

English IV or Hon. Eng.IV
 Alg. IIB or Math

CAREER ELECTIVES:

- Yearbook
- Co-op
- EFE:
 Accounting-College
 Accounting/Finance
 Banking
 Business Management Adm (BMA)
 Computer Tech/Dynamic Web Prog.
 Hotel, Restaurant & Travel Mgmt.
 Marketing
 Network Administration

ENRICHMENT ELECTIVES:

- | | |
|------------------|---------------------|
| Spanish I | Psych/Soc |
| Spanish II | Cont. Global Issues |
| Spanish III | Physical Training |
| Art I | Chemistry |
| Art II | Anat/Physiology |
| Art Exploration | Physics |
| Band | Trig./Pre-Calc |
| Essential Living | Calculus |
| Vocal Music | EFE/EFA |
| | Dual Enrollment |
| | Michigan Virtual HS |
| | Study Hall |

BUSINESS, MANAGEMENT, MARKETING AND TECHNOLOGY

Professional Career Focus

Education for Employment (EFE) and Education for the Arts (EFA) related courses

Education for Employment (EfE)

Animal Tech.	EMT
Art & Design Career Skills	Fundamentals of Health Science
Auto Technology	Furniture & Cabinetmaking
Aviation Technology	Health Science
Construction Trades	Heating, Air Cond & Refrig.
Co-Op	Law Enforcement
Cosmetology	Machine Tool
Culinary Arts	Photography-Digital Imaging
Dental Assisting	Radio Broadcasting
Digital Video Production	Teacher Cadet
Drafting Tech	Veterinary Science
Early Childhood Education	Welding
Electrical Technology	Wind Energy Technology
Electronics and Robotics	

Education for the Arts (EfA)

Advanced 2-D Art
Advanced 3-D Art
Advanced Multimedia Arts
Advanced Musical Theatre Workshop
Dance I: Beg. Tech. & Choreography
Dance II: Adv. Tech. & Choreography
Digital Video and Film
Design for Digital Media
Four Weekends at the KIA
Integrated Dance/Health/PE
Intro. To Media Design Online
Music for Life
Theatre Practice and Performance

ENGINEERING/MANUFACTURING & INDUSTRIAL TECHNOLOGY

If you answers **YES**

To more than half of these questions,

This path may have a career for you!

Characteristics of this pathway:

Do you enjoy...

- Figuring out how things work?
- Building things?
- Working with your hands?

Interests and abilities typical of this pathway:

Do you have...

- The ability to use tools to properly gather data?
- The ability to understand and interpret data?
- The ability to think independently to solve problems and draw conclusions?
- The ability to read and understand technical information?

Sample of Technical Careers

Aeronautical Technician

Air Traffic Controller

Aircraft Mechanic

Airplane Pilot

Architectural Drafter

Assistant Builder

Asst. Building Superintendent

Auto Body Technician

Auto Mechanic

Automated Equip. Tech

Automated Sys. Programmer

Brick Mason

Building Contractor

CAD Operator

Carpenter

Carpenter/Furniture

Collision Estimator

Commercial Boat

Computer Numeric Control

Delivery Route Driver

Electrician

Electronics Technician

Estimator

Flight Engineer

Heavy Equip/Truck Mechanic

Industrial Designer

Industrial Elect. Apprentice

Industrial Welder

Interior Decorator

Loco/Railway Equip. Operator

Machine Design Apprentice

Machine Repairer-Apprentice

Machinist

Marine Hull/Yard Tech

Marine Mechanic

Mill Worker

Model Maker

Operator Motorcycle Mechanic

Paper Hanger

Plaster/Dry Wall Installer

Painter/Finisher

Plastics Technician

Plumber

Precision Machinist

Public Transportation Driver

Quality Control

Structural Steel Worker

Surveyor's Helper

Tile/Floor Installer

Toll & Die Maker

Tool/Die/mold Design Apprentice

Trucker/Truck Driver

ENGINEERING/MANUFACTURING & INDUSTRIAL TECHNOLOGY

If you answers **YES**

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Do you enjoy...

- Figuring out how things work?
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Interests and abilities typical of this pathway:

Do you have...

- The ability to use tools to properly gather data?
- The ability to understand and interpret data?
- The ability to think independently to solve problems and draw conclusions?
- The ability to read and understand technical information?

Sample of Professional Careers

Aeronautical Engineer	Design Engineer
Aerospace Personnel	Die/Mold Engineer
Agricultural Engineer	Electrical Engineer
Aircraft Pilot	Electrical Systems Engineer
Architect	Electronics Systems Engineer
Auto Body Owner/Mgr.	Energy Systems Engineer
Auto Mechanic-Master	Estimator
Auto Service Manager	Fleet Manager
Automotive Design	Heavy Machinery Owner/Mgr.
Automotive Engineer	Industrial Engineer
Aviation Maintenance Mgr.	Marine Owner/Mgr.
Biomedical Engineer	Materials Manager
Builder	Mechanical Engineer
Building Contractor	Motorcycle/Small Engine Design
Building Inspector	Nuclear Engineer
Building Superintendent	Plastics Engineer
Building Trades Instructor	Power Engineer
Carpet/Furniture Designer	Production Technology Mgr.
Chemical Engineer	Quality Control Engineer
Computer engineer	Railway/Regional Mgr.
Construction Manager	Scheduler
	Surveyor

ENGINEERING/MANUFACTURING & INDUSTRIAL TECHNOLOGY

GRADUATION CORE:

Technical Career Focus

CAREER ELECTIVES:

- | | |
|---|--|
| <ul style="list-style-type: none"> •Chemistry •Physics •Trig./Pre Calc. •Co-op •EFE: | <ul style="list-style-type: none"> Furniture & Cabinet Making Heating & Air Cond. & Refrig. Machine Tool Welding |
| <ul style="list-style-type: none"> Auto Technology Aviation Technology Construction Trades Drafting Tech Electronics and Robotics Electrical Tech | |

ENRICHMENT ELECTIVES:

- | | |
|---|---|
| <ul style="list-style-type: none"> Spanish I Spanish II Spanish III Art I Art II Art Exploration Band Essential Living Vocal Music | <ul style="list-style-type: none"> Psych/Soc Cont. Global Issues Physical Training Anat/Physiology Trig./Pre-Calc Calculus EFE/EFA Dual Enrollment Michigan Virtual HS Study Hall |
|---|---|

9th Grade

English I or Hon. Eng.I
Algebra or Geometry
World History
Earth Science
Physical Ed./Health

10th Grade

English II or Hon. Eng. II
Geometry or Algebra II
US History
Biology
BMA

11th Grade

English III or Hon. Eng. III
Alg. II or Alg IIA or
Trig/Pre-Calculus
Chemistry or Physics
US Government/Econ
Speech/Consumers Ed.

12th Grade

English IV or Hon. Eng.IV
Alg. IIB or Math

ENGINEERING/MANUFACTURING & INDUSTRIAL TECHNOLOGY

Technical Career Focus

Education for Employment (EFE) and Education for the Arts (EFA) related courses

Education for Employment (EfE)

Accounting-College	E.M.T.
Accounting/Finance	Fundamentals of Health Science
Animal Tech.	Health Science
Art & Design Career Skills	Hotel, Rest., Travel Mgmt.
Banking	Law Enforcement
Business Mgmt. Adm. (BMA)	Marketing Education
Comp Tech/Dynamic Web Prog	Network Admin.
Co-op	Photography-Digital Imaging
Cosmetology	Radio Broadcasting
Culinary Arts	Teacher Cadet
Dental Assisting	Theatre Tech//Internship
Digital Video Production	Veterinary Science
Early Childhood Education	Wind Energy Technology

Education for the Arts (EfA)

Advanced 2-D Art
Advanced 3-D Art
Advanced Multimedia Arts
Advanced Musical Theatre Workshop
Dance I: Beg. Tech. & Choreography
Dance II: Adv. Tech. & Choreography
Digital Video and Film
Design for Digital Media
Four Weekends at the KIA
Integrated Dance/Health/PE
Intro. To Media Design Online
Music for Life
Theatre Practice and Performance

ENGINEERING/MANUFACTURING & INDUSTRIAL TECHNOLOGY

GRADUATION CORE:

Professional Career Focus

9th Grade

English I or Hon. Eng.I
Algebra or Geometry
World History
Earth Science
Physical Ed./Health

10th Grade

English II or Hon. Eng. II
Geometry or Algebra II
US History
Biology
BMA

11th Grade

English III or Hon. Eng. III
Alg. II or Alg IIA or
Trig/Pre-Calculus
Chemistry or Physics
US Government/Econ
Speech/Consumers Ed.

12th Grade

English IV or Hon. Eng.IV
Alg. IIB or Math

CAREER ELECTIVES:

- | | |
|---------------------|-------------------------------|
| •Spanish I, II, II | Construction Trades |
| •Chemistry | Drafting Tech. |
| •Physics | Electrical Tech. |
| •Trig./Pre Calc. | Electronics and Robotics |
| •Calculus | Furniture & Cabinet Making |
| •Psych/Soc. | Heating & Air Cond. & Refrig. |
| •Co-Op | Machine Tool |
| •EFE: | Welding |
| Auto Technology | Wind Energy Technology |
| Aviation Technology | |

ENRICHMENT ELECTIVES:

- | | |
|------------------|---------------------|
| Art I | Cont. Global Issues |
| Art II | |
| Art Exploration | Physical Training |
| Band | Anat./Physiology |
| Essential Living | |
| Vocal Music | EFE/EFA |
| | Dual Enrollment |
| | Michigan Virtual HS |
| | Study Hall |

ENGINEERING/MANUFACTURING & INDUSTRIAL TECHNOLOGY

Technical Career Focus

Education for Employment (EFE) and Education for the Arts (EFA) related courses

Education for Employment (EfE)

Accounting-College	E.M.T.
Accounting/Finance	Fundamentals of Health Science
Animal Tech.	Health Science
Art & Design Career Skills	Hotel, Rest., Travel Mgmt.
Banking	Law Enforcement
Business Mgmt. Adm. (BMA)	Marketing Education
Comp Tech/Dynamic Web Prog	Network Admin.
Co-op	Photography-Digital Imaging
Cosmetology	Radio Broadcasting
Culinary Arts	Teacher Cadet
Dental Assisting	Theatre Tech//Internship
Digital Video Production	Veterinary Science
Early Childhood Education	Wind Energy Technology

Education for the Arts (EfA)

Advanced 2-D Art
Advanced 3-D Art
Advanced Multimedia Arts
Advanced Musical Theatre Workshop
Dance I: Beg. Tech. & Choreography
Dance II: Adv. Tech. & Choreography
Digital Video and Film
Design for Digital Media
Four Weekends at the KIA
Integrated Dance/Health/PE
Intro. To Media Design Online
Music for Life
Theatre Practice and Performance

HEALTH SCIENCES

If you answers **YES**

To more than half of these questions,
This path may have a career for you!

Characteristics of this pathway:

Do you enjoy...

- Helping people when they are sick?
- Learning about diseases and how the body works?

Interests and abilities typical of this pathway:

Do you have...

- An interest in the science field
- The Ability to make decisions
- The ability to work under stress
- Flexibility, willingness to change
- Patience and understanding
- Self-discipline
- The desire to serve or help other people
- The willingness to work as part of a team

Sample of Technical Careers

Aerobics Instructor	Occupational Therapy Asst.
Ambulance Driver	Optometric Technician
Certified Nursing Assistant	Paramedic
Dental Hygienist	Patient Care Assistant
Dental Laboratory Tech.	Personal/Home Care Aide
Diagnostic Aide	Pharmacy Technician
Dietary Technician	Phlebotomist
Emergency Medical Tech.	Physical Therapy Asst.
Fitness Aide	Psychiatric Technician
Fitness Coach	Radiology technician
Home Health Aide	Receptionist
Hospice Worker	Respiratory Tech. Technician
Licensed Practical Nurse	Testing Technician
Medical Assistant	Ultra Sound Technologist
Medical Laboratory Tech.	Veterinary Technician
Medical Records	
Nuclear Medicine Tech	
Nurses Aide	

HEALTH SCIENCES

If you answers **YES**

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Do you enjoy...

- Helping people when they are sick?
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- The Ability to make decisions
- The ability to work under stress
- Flexibility, willingness to change
- Patience and understanding
- Self-discipline
- The desire to serve or help other people
- The willingness to work as part of a team

Sample of Professional Careers

Art/Music Therapist	Pediatrician
Athletic Trainer	Pharmacist
Audiologist	Physical Therapist
Chiropractor	Physician
Counselor	Physician Assistant
Dentist	Psychiatrist
Dermatologist	Psychologist
Dietician/Nutritionist	Public health Engineer
Fitness Trainer	Radiologist
Health Educator	Registered Nurse
Industrial hygienist	Social Worker
Medical Records Management	Speech Pathologist
Microbiologist	Sports Medicine Therapist
Nutritionist	Surgeon
Occupational Therapist M-NT	Therapist
Ophthalmologist	Veterinarian
Optometrist	

HEALTH SCIENCES

Technical Career Focus

GRADUATION CORE:

9th Grade

English I or Hon. Eng.I
Algebra or Geometry
World History
Earth Science
Physical Ed./Health

10th Grade

English II or Hon. Eng. II
Geometry or Algebra II
US History
Biology
BMA

11th Grade

English III or Hon. Eng. III
Alg. II or Alg IIA or
Trig/Pre-Calculus
Chemistry or Physics
US Government/Econ
Speech/Consumers Ed.

12th Grade

English IV or Hon. Eng.IV
Alg. IIB or Math

CAREER ELECTIVES:

- Essential Living
- Psych./Soc.
- Physical Training
- Chemistry
- Anat./Physiology
- Co-op
- Efe:
Health Science
Dental Assisting
E.M.T.
Fundamentals of Health Science

ENRICHMENT ELECTIVES:

- | | |
|-----------------|---------------------|
| Spanish I | Cont. Global Issues |
| Spanish II | Physics |
| Spanish II | Trig./Pre-Calc |
| Art I | Calculus |
| Art II | EFE/EFA |
| Art Exploration | Co-op |
| Band | Dual Enrollment |
| Vocal Music | Michigan Virtual HS |
| | Study Hall |

HEALTH SCIENCES

Technical Career Focus

Education for Employment (EFE) and Education for the Arts (EFA) related courses

Education for Employment (EfE)

Accounting-College	Electrical Tech.
Accounting/Finance	Electronics and Robotics
Animal Tech.	Furniture & Cabinet Mkg.
Art & Design Career Skills	Heat, Air Cond. & Refrig.
Auto Technology	Hotel Rest. Travel Mgmt.
Aviation Technology	Law Enforcement.
Banking	Machine Tool
Business Mgmt. Adm. (BMA)	Marketing Education
Comp Tech/Dynamic Web Prog	Network Admin.
Construction Trades	Photo-Digital Imaging
Co-op	Radio Broadcasting
Cosmetology	Teacher Cadet
Culinary Arts	Theatre Tech. Internship
Digital Video Production	Veterinary Science
Drafting Tech.	Welding
Early Childhood Education	Wind Energy Technology

Education for the Arts (EfA)

Advanced 2-D Art
Advanced 3-D Art
Advanced Multimedia Arts
Advanced Musical Theatre Workshop
Dance I: Beg. Tech. & Choreography
Dance II: Adv. Tech. & Choreography
Digital Video and Film
Design for Digital Media
Four Weekends at the KIA
Integrated Dance/Health/PE
Intro. To Media Design Online
Music for Life
Theatre Practice and Performance

HEALTH SCIENCES

Professional Career Focus

Education for Employment (EFE) and Education for the Arts (EFA) related courses

Education for Employment (EfE)

Accounting-College	Electrical Tech.
Accounting/Finance	Electronics and Robotics
Animal Tech.	Furniture & Cabinet Mkg.
Art & Design Career Skills	Heat, Air Cond. & Refrig.
Auto Technology	Hotel Rest. Travel Mgmt.
Aviation Technology	Law Enforcement.
Banking	Machine Tool
Business Mgmt. Adm. (BMA)	Marketing Education
Comp Tech/Dynamic Web Prog	Network Admin.
Construction Trades	Photo-Digital Imaging
Co-op	Radio Broadcasting
Cosmetology	Teacher Cadet
Culinary Arts	Theatre Tech. Internship
Digital Video Production	Veterinary Science
Early Childhood Education	Welding
Electronics and Robotics	Wind Energy Technology

Education for the Arts (EfA)

Advanced 2-D Art
Advanced 3-D Art
Advanced Multimedia Arts
Advanced Musical Theatre Workshop
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Dance II: Adv. Tech. & Choreography
Digital Video and Film
Design for Digital Media
Four Weekends at the KIA
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Intro. To Media Design Online
Music for Life
Theatre Practice and Performance

HUMAN SERVICES

If you answers **YES**

To more than half of these questions,
This path may have a career for you!

Characteristics of this pathway:

Do you enjoy...

- Working directly with people or groups of people?
- Working with people to help solve problems?
- Making things better for other people?

Interests and abilities typical of this pathway:

Do you have...

- The ability to lead and/or influence others
- The ability to work under stress
- Enthusiasm
- Flexibility, willingness to change
- Patience and understanding
- Self-discipline
- The ability to speak and write well
- The desire to serve or help other people
- The willingness to work as part of a team

Sample of Technical Careers

Armed Forces	Maintenance Worker
Assistant Restaurant Mgr.	Paraprofessional(pupil/student
Asst. Conference Manager	Pest Control Technician
Asst. Motel Manager	Police Officer
Baker	Pre-School Aide
Bartender	Private Detective
Body Guard	Public Health Inspector
Butcher	Public Safety Officer
Card Dealer	Recreational Supervisor
Charter Boat Captain	Research Assistant
Chef/Master Chef	Sanitation Technician
Child Care/Nursery Attendant	Secondary Aide
Convention Manager	Security Guard
Cook	Ski Instructor
Corr/Prob/Parole Worker	Special Education Aide
Cosmetologist	Special Events Director
Cruise/Tour Director	Swim Instructor
Day Care Assistant	Teaching Assistant
Elementary Aide	Trainer
Executive Director	Travel Agent
Fire Inspector	Wait Staff
Fire Science Tech	Water Purification Tech
Flight Attendant	
Front Door Manager	
Hazardous Materials Tech	
Housekeeper	

HUMAN SERVICES

If you answers **YES**

To more than half of these questions,
This path may have a career for you!

Characteristics of this pathway:

Do you enjoy...

- Working directly with people or groups of people?
- Working with people to help solve problems?
- Making things better for other people?

Interests and abilities typical of this pathway:

Do you have...

- The ability to lead and/or influence others
- The ability to work under stress
- Enthusiasm
- Flexibility, willingness to change
- Patience and understanding
- Self-discipline
- The ability to speak and write well
- The desire to serve or help other people
- The willingness to work as part of a team

Sample of Professional Careers

Anthropologist	Home Economist
Body Guard	Hotel/Motell Manager
Buyer	Interior Designer
Chef	Mortician
Coach	Nanny
College Administrator	Nurshing Home Administrator
College Instructor/Professor	Officer/Police chief
Concierge	Parole/Probation Officer
Conference Manager	Paster/Minister
Convention Director	Pest Control Officer
Corr/Prob/Parole Officer	Preschool Teacher
Cosmetologist	Private Detective
Counselor/Social Worker	Psychologist
Cruise Director	Public Administrator
Customer Advocate	Public Health Educator
Day Care Director	Pupil/student Personnel
Early Childhood Educator	Recreational Supervisor
Economist	Researcher
Elementary Teacher	Sanitation Officer
Fashion Designer	Secondary Teacher
FBI Agent	Security Director
Fire Chief	Sheriff/Detective
Food Services Manager	Social/Case Worker
FBI Agent	Sociologist
Food Services Manager	Special Ed. Teacher
Hazardous Materials Officer	State Police Commander
Home Care Specialist	Tourism Director
	Urban/Regional Planner

HUMAN SERVICES

GRADUATION CORE:

Technical Career Focus

9th Grade

English I or Hon. Eng.I
Algebra or Geometry
World History
Earth Science
Physical Ed./Health

10th Grade

English II or Hon. Eng. II
Geometry or Algebra II
US History
Biology
BMA

11th Grade

English III or Hon. Eng. III
Alg. II or Alg IIA or
Trig/Pre-Calculus
Chemistry or Physics
US Government/Econ
Speech/Consumers Ed.

12th Grade

English IV or Hon. Eng.IV
Alg. IIB or Math

CAREER ELECTIVES:

- Spanish I, II, III
- Art I, II, Exploration
- Band
- Essential Living
- Vocal Music
- Psych./Soc.
- Cont. Global Issues
- Co-op
- EFE:
Early Childhood Educator
Law Enforcement
Teacher Cadet

ENRICHMENT ELECTIVES:

Physical Training
Chemistry
Anat./Physiology
Physics
Trig./Pre-Calc.
Calculus
EFE/EFA
Dual Enrollment
Michigan Virtual HS

Study Hall

HUMAN SERVICES

Technical Career Focus

Education for Employment (EFE) and Education for the Arts (EFA) related courses

Education for Employment (EfE)

Accounting-College	Electrical Tech.
Accounting/Finance	Electronics and Robotics
Animal Tech.	E.M.T.
Art & Design Career Skills	Fundamentals of Health Science.
Auto Technology	Furniture & Cabinet Making
Aviation Technology	Health Science
Banking	Heating, Air Cond. Refrig.
Business Mgmt. Adm. (BMA)	Machine Tool
Comp Tech/Dynamic Web Prog	Marketing Education.
Construction Trades	Network Administration
Co-op	Photography-Digital Imaging
Cosmetology	Radio Broadcasting
Culinary Arts	Theatre Tech. Internship
Dental Assisting	Veterinary Science
Digital Video Production	Welding
Drafting Tech.	Wind Energy Technology

Education for the Arts (EfA)

Advanced 2-D Art
Advanced 3-D Art
Advanced Multimedia Arts
Advanced Musical Theatre Workshop
Dance I: Beg. Tech. & Choreography
Dance II: Adv. Tech. & Choreography
Digital Video and Film
Design for Digital Media
Four Weekends at the KIA
Integrated Dance/Health/PE
Intro. To Media Design Online
Music for Life
Theatre Practice and Performance

HUMAN SERVICES

GRADUATION CORE:

Professional Career Focus

CAREER ELECTIVES:

- Spanish I, II, III
- Art I, II, Exploration
- Band
- Essential Living
- Vocal Music
- Psych./Soc.
- Cont. Global Issues
- Chemistry
- Anat./Physiology
- Co-op
- EFE:
Early Childhood Educator
Law Enforcement
Teacher Cadet

ENRICHMENT ELECTIVES:

- Physical Training
- Physics
- Trig./Pre-Calc.
- Calculus
- EFE/EFA
- Dual Enrollment
- Michigan Virtual HS

- Study Hall

9th Grade

English I or Hon. Eng.I
Algebra or Geometry
World History
Earth Science
Physical Ed./Health

10th Grade

English II or Hon. Eng. II
Geometry or Algebra II
US History
Biology
BMA

11th Grade

English III or Hon. Eng. III
Alg. II or Alg IIA or
Trig/Pre-Calculus
Chemistry or Physics
US Government/Econ
Speech/Consumers Ed.

12th Grade

English IV or Hon. Eng.IV
Alg. IIB or Math

HUMAN SERVICES

Technical Career Focus

Education for Employment (EFE) and Education for the Arts (EFA) related courses

Education for Employment (Efe)

Accounting-College	Electronics and Robotics.
Accounting/Finance	EMT
Animal Tech.	Fundamentals of Health
Art & Design Career Skills	Furniture & Cabinet Making.
Auto Technology	Heating, Air Cond., & Refrig.
Aviation Technology	Health Science
Banking	Hotel, Rest., Travel Management
Business Mgmt. Adm. (BMA)	Machine Tool
Comp Tech/Dynamic Web Prog	Marketing Education.
Construction Trades	Network Administration
Co-op	Photography-Digital Imaging
Culinary Arts	Radio Broadcasting
Dental Assisting	Theatre Tech. Internship
Digital Video Production	Veterinary Science
Drafting Tech.	Welding
Electrical Tech.	Wind Energy Technology

Education for the Arts (Efa)

Advanced 2-D Art
Advanced 3-D Art
Advanced Multimedia Arts
Advanced Musical Theatre Workshop
Dance I: Beg. Tech. & Choreography
Dance II: Adv. Tech. & Choreography
Digital Video and Film
Design for Digital Media
Four Weekends at the KIA
Integrated Dance/Health/PE
Intro. To Media Design Online
Music for Life
Theatre Practice and Performance

NATURAL RESOURCES & AGRISCIENCE

If you answers **YES**

To more than half of these questions,
This path may have a career for you!

Characteristics of this pathway:

Do you enjoy...

- Working outdoors with plants and/or animals?
- Improving the environment?
- Studying wildlife?

Interests and abilities typical of this pathway:

Do you have...

- The ability to use tools to properly gather data?
- The ability to understand and interpret data?
- The ability to think independently to solve problems and draw conclusions?
- The ability to read and understand technical information?

Sample of Technical Careers

Ag. Chemical Tech
Agricultural Tech
Assistant Farm Manager
Farm Operator
Fire Fighter
Fish and Wildlife Worker
Fish/Game Warden
Fishery Technician
Forestry Technician
Gardener
Grounds Keeper
Horticultural Technician
Landscape Design
Landscape Gardener
Machinery Sales
Nursery Manager
Science Tech
Soil Conversation Technician
Timber Equipment Operator
Well Drive Operator

Sample of Professional Careers

Agricultural Economist
Agricultural Extension Agent
Agricultural Scientist
Astronomer/Physicist
Biologist
Chemist
Computer Systems Analyst
Conservation Officer W-NT
Co-op Extension Agent
Environmental Analyst
Farm Manager W-NT
Fish and Wildlife Specialist
Fisheries Manager
Floral Designer
Forester
Gardens Manager
Geologist/Geophysicist
Horticulturist
Landscape Architect
Limnologist
Mathematician
Mining/Petroleum Engineer
Naturalist
Park Manager
Physicist
Soil Conservationist
Urban Planner

NATURAL RESOURCES &

AGRISCIENCE

Technical Career Focus

GRADUATION CORE:

9th Grade

English I or Hon. Eng.I
Algebra or Geometry
World History
Earth Science
Physical Ed./Health

10th Grade

English II or Hon. Eng. II
Geometry or Algebra II
US History
Biology
BMA

11th Grade

English III or Hon. Eng. III
Alg. II or Alg IIA or
Trig/Pre-Calculus
Chemistry or Physics
US Government/Econ
Speech/Consumers Ed.

12th Grade

English IV or Hon. Eng.IV
Alg. IIB or Math

CAREER ELECTIVES:

- Spanish I, II, III
- Chemistry
- Anat./Physiology
- Co-op
- EFE:
Animal Tech
Veterinary Science

ENRICHMENT ELECTIVES:

- Art I
- Art II
- Art Exploration
- Band
- Essential Living
- Vocal Music
- Psych/Soc
- Cont. Global Issues
- Physical Training
- Physics
- Trig./Pre-Calc.
- Calculus
- EfE/EfA
- Dual Enrollment
- Michigan Virtual HS
- Study Hall

NATURAL RESOURCES AND AGRISCIENCE

Technical Career Focus

*Education for Employment (EFE) and Education for the Arts (EFA)
related courses*

Education for Employment (EfE)

Accounting-College
Accounting/Finance
Art & Design Career Skills.
Auto Technology
Aviation Technology
Banking
Business Mgmt. Admin. (BMA)
Computer Tech/Dynamic Web Prog.
Construction Trades
Co-op
Cosmetology
Culinary Arts
Dental Assisting
Digital Video Production
Drafting Tech.
EMT
Early Childhood Educ.
Electrical Tech.
Electronics and Robotics
Fundamentals of Health Science
Furniture & Cabinet Making.
Heating, Air Cond. & Refrig.
Health Science
Hotel, Restaurant, Travel Management
Law Enforcement
Machine Tool.
Marking Education
Network Admin.
Photography-Digital Imaging
Radio Broadcasting
Teacher Cadet
Theatre Technology Internship
Welding
Wind Energy Technology

Education for the Arts (EfA)

Advanced 2-D Art
Advanced 3-D Art
Advanced Multimedia Arts
Advanced Musical Theatre Workshop
Dance I: Beg. Tech. & Choreography
Dance II: Adv. Tech. & Choreography
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Four Weekends at the KIA
Integrated Dance/Health/PE
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Music for Life
Theatre Practice and Performance

NATURAL RESOURCES &

AGRISCIENCE

Professional Career Focus

GRADUATION CORE:

9th Grade

English I or Hon. Eng.I
Algebra or Geometry
World History
Earth Science
Physical Ed./Health

10th Grade

English II or Hon. Eng. II
Geometry or Algebra II
US History
Biology
BMA

11th Grade

English III or Hon. Eng. III
Alg. II or Alg IIA or
Trig/Pre-Calculus
Chemistry or Physics
US Government/Econ
Speech/Consumers Ed.

12th Grade

English IV or Hon. Eng.IV
Alg. IIB or Math

CAREER ELECTIVES:

- Spanish I, II, III
- Chemistry
- Anat./Physiology
- Physics
- Trig./Pre-Calc.
- Caculus
- Co-op
- Psych./Soc
- EFE:
Animal Tech
Veterinary Science

ENRICHMENT ELECTIVES:

Art I
Art II
Art Exploration
Band
Essential Living
Vocal Music
Cont. Global Issues
Physical Training
EfE/EfA
Dual Enrollment
Michigan Virtual HS
Study Hall

NATURAL RESOURCES AND AGRISCIENCE

Professional Career Focus

*Education for Employment (EFE) and Education for the Arts (EFA)
related courses*

Education for Employment (EfE)

Accounting-College
Accounting/Finance
Art & Design Career Skills.
Auto Technology
Aviation Technology
Banking
Business Mgmt. Admin. (BMA)
Computer Tech/Dynamic Web Prog.
Construction Trades
Co-op
Cosmetology
Culinary Arts
Dental Assisting
Digital Video Production
Drafting Tech.
Early Childhood Educ.
Electrical Tech.
Electronics and Robotics
EMT
Fundamentals of Health Science
Furniture & Cabinet Making.
Heating, Air Cond. & Refrig.
Health Science
Hotel, Restaurant, Travel Management
Law Enforcement
Machine Tool.
Marking Education
Network Admin.
Photography-Digital Imaging
Radio Broadcasting
Teacher Cadet
Theatre Technology Internship
Welding
Wind Energy Technology

Education for the Arts (EfA)

Advanced 2-D Art
Advanced 3-D Art
Advanced Multimedia Arts
Advanced Musical Theatre Workshop
Dance I: Beg. Tech. & Choreography
Dance II: Adv. Tech. & Choreography
Digital Video and Film
Design for Digital Media
Four Weekends at the KIA
Integrated Dance/Health/PE
Intro. To Media Design Online
Music for Life
Theatre Practice and Performance

COURSE OFFERINGS

Business

BMA I
BMA II
Accounting/Fin.I

Fine & Applied Arts

Art I
Art II
Art III
Art Exploration
Essential Living
Vocal Music
Band

English

English I
English II
English III
English IV
Honors English I

Honors English II
Honors English III
Honors English IV
Speech/Consumers Ed

Math

Algebra I
Geometry
Algebra II
Algebra IIA
Algebra IIB
Trig/Pre-Calculus
Calculus

Science

Earth Science
Biology
Chemistry
Anatomy/Physiology
Physics

Foreign Language

Spanish I
Spanish II
Spanish III

Physical Education

Physical Ed I/Health
Physical Training

*Study Hall
*Dual Enrollment

Social Studies

World History
U.S. History
U.S. Government/Econ
Psychology/Sociology
Contemporary Global Issues

Education for Employment (EfE)

(Course descriptions found in EfE Brochure)

Accounting - College
Accounting/Finance II
Animal Tech/Internship
Art & Design Career Skills
Auto Technology
Aviation Technology
Banking & Finance
Business Man. Adm (BMA)
Computer Network Adm.
Computer Tech A+
CompTech/Dynamic Web Prog.
Construction Trades
CO-OP
Cosmetology/Barbering
Culinary Arts
Dental Assisting
Digital Video Production
Drafting Tech.
Early Childhood Education

E.M.T.
Electrical Tech
Electronics and Robotics
Furniture & Cabinet Making
Heating, Air Cond & Ref
Health Science
Health Science Fundamentals
Health Science Professional
Hotel, Restaurant, Travel Mgmt
Law Enforcement
Machine Tool Tech
Marketing Education
Photography-Digital Imaging
Radio Broadcasting
Teacher Cadet
Theatre Technology Internship
Veterinary Science
Welding
Wind Energy Technology

Education for the Arts (EfA)

(course descriptions found in EfA Brochure)

Advanced Multimedia Arts
Adv. Musical Teat. Workshop
Adv. 2-D Art
Adv. 3-D Art
Dance I: Beginning Tech. & Choreography
Dance II: Adv. Tech. & Choreography
Design for Digital Media
Digital Video & Film
Four Weekends at KIA
Integrated Dance/Health/PE
Intro. to Media Design Online
Music for Life/Music Fundamentals
Theatre, Practical & Performing Arts

Michigan Virtual High School

www.mivhs.org

ENGLISH I

Grade level: 9 Credit: 1 (2 semesters)

Prerequisite: English teacher recommendation

Topics Studied:

1. Grammar and usage of formal written English
2. Literature, literary concepts, background of writers
3. Vocabulary and spelling
4. Writing

Purpose:

This is a course that reviews English grammar, usage, and spelling, introduces vocabulary, and emphasizes literature and writing. Each student will have knowledge of each literary form, be able to recognize and understand literary terms, learn to analyze literature, and to gain an appreciation for the written word. Writing instruction will improve student's form and coherency and also include instruction in analytical writing.

ENGLISH II – American Literature

Grade Level: 10 Credit: 1 (2 semesters)

Prerequisite: 9th Grade English

Topics Studied:

1. Grammar and usage of formal written English
2. American Literature, literary concepts, background of writers, literary terms, and period concepts.
3. Vocabulary
4. Writing

Purpose:

This is a course that examines American Literature, English grammar, usage, and spelling. It also introduces the student to vocabulary, and the writing process. Students will encounter American Literature, its literary forms, will be required to recognize and understand literary terms, learn to analyze literature, and to gain an appreciation for writing. Writing instruction will improve student's form and coherency and also include instruction in analytical writing.

ENGLISH III

Grade Level: 11 Credit: 1 (2 semesters)

Prerequisite: 10th Grade English

Topics Studied:

1. Grammar: Mechanics, usage, and rhetorical skills
2. Reading: selected literature from a variety of sources
3. Writing: basic writing skills with frequent practice
4. Vocabulary and spelling
5. MEAP Test Preparation

Purpose:

This course teaches Basic English skills, both writing and speaking, which are necessary for functioning in today's world. The student will also learn to recognize and be able to use various writing techniques, both from selected literature, and more common everyday uses.

ENGLISH IV

Grade level: 12 Credit: 1 (2 semesters)

Prerequisite: 11th Grade English

Topics Studied:

1. Advanced grammar and usage.
2. Further development of paragraphs.
3. Vocabulary enhancement
4. Assigned papers-ex. composition/contrast.
5. Two to four novels.

Purpose:

English IV will demonstrate and teach writing skills. While proper grammar will be stressed, major emphasis will be composition.

HONORS ENGLISH I

Grade Level: 9 Credit: 1 (2 semesters)

Prerequisite: English teacher recommendations

Topics Studied:

1. Grammar and usage, includes diagrams
2. Literature, literary concepts, background of writers
3. Vocabulary and spelling
4. Writing

Purpose:

This is a course that reviews English grammar, usage, and spelling; introduces vocabulary, and emphasizes literature and writing. Each student will have knowledge of each literary form, be able to recognize and understand literary terms, learn to analyze literature, and to gain an appreciation for the written word. Writing instruction will improve student's form and coherency and also include instruction in analytical writing. The same curriculum as English I will be implemented at the Honors level. However pacing, teaching strategies, expectations, and considerable enrichment of these topics will be required. This course is for the motivated student who has demonstrated aptitude and attitude toward academic success.

HONORS ENGLISH II: American Literature

Grade Level: 10 Credit: 1 (2 semesters)

Prerequisite: Honors English I

Topics Studied:

1. Grammar and usage of formal written English
2. American Literature, literary concepts, background of writers, poetry, literary period concepts, and writing structures.
3. Vocabulary and spelling
4. Writing

Purpose:

This is a course that reviews English grammar, usage, and spelling. The class also introduces vocabulary, and emphasizes literature and writing. The class is based in American Literature, its authors and history. Each student will have knowledge of each literary form, be able to recognize and understand literary terms, learn to analyze literature, and to gain an appreciation for the written word. Writing instruction will improve student's form and coherency and also include instruction in analytical writing.

HONORS ENGLISH III

Grade level: 11 Credit: 1 (2 semesters)

Prerequisite: 10th Grade Honors English

Topics Studied:

1. American Literature (Colonial to Modern Age); English Literature (Anglo Saxon to Modern Age)
2. Verbal Strategy for Testing (ACT)
3. Vocabulary/spelling for the college bound
4. Composition: frequent impromptu writing/expository essays

Purpose:

This course provides in-depth preparation in literary analysis, essay writing test taking strategies, and other areas necessary for the student seeking a degree at most four-year universities.

HONORS ENGLISH IV

Grade level: 12 Credit: 1 (2 semesters)

Prerequisite: 11th Grade Honors English

Topics Studied:

1. Assigned readings for literary study and critical analysis.
2. Individualized reading of modern and classic writers from a suggested reading list, with related papers.
3. Composition, including creative and expository essays, in-depth research papers, journal entry assignments, use of computers in writing.
4. Verbal ability strategies and practice, higher-level vocabulary building, and grammar usage, as needed.

Purpose:

This course presents a reading and writing forum for college-bound seniors who desire advanced work in literature and composition to help them excel in the reading writing skills expected in college.

CONSUMERS EDUCATION

Grade level: 11, 12 Credit: 1/2 (1 semester)

Prerequisite: None

Topics Studied:

1. Career decision-making and goal setting
2. Job hunting skills/Job Shadow
3. Personal Budget Management
4. Life, auto and health insurance
5. Analyze advertising and marketing strategies
6. Purchasing housing and transportation
7. Finance and Debt Management
8. Investment

Purpose:

This class is created to help students develop skills in making personal and economic choices. Students will be better able to pursue their interests as citizens, workers and consumers if they understand basic economic principles. Students will learn to apply these principles to everyday life to promote intelligent, responsible decision-making enabling them to analyze and choose among alternatives.

SPEECH

Grade level: 11,12 Credit: 1/2 (1 semester)

Prerequisite: None

Topics Studied:

1. How do we communicate: - methods
2. Clarifications of one's values
3. Body language - non-verbal communications
4. To research and outline data and information
5. Job application and interviews
6. Various kinds of speeches; informative, persuasive, etc.
7. Listening skills

Purpose:

To give students to opportunity to research and communicate one's feelings and to deliver information to others with more confidence and clarity.

BAND

Grade Level: 9, 10, 11, 12 Credit: 1 (2 semesters)

Prerequisite: Audition/Teacher recommendation

Topics Studied:

1. Basic and Advanced marching concepts
2. Advanced tonal development
3. Rehearsal Techniques
4. Advanced Rhythmic and Technical Development

Purpose:

This instrumental music performance course provides experience in creating, performing, listening to, and analyzing music, in addition to focusing on its specific subject matter. Also included are learning experiences designed to develop the ability to read music, use the notation and terminology of music, describe music, make informed evaluations concerning music, and understand music and music practices in relation to history and culture and to other discipline in the curriculum.

VOCAL MUSIC

Grade Level: 9,10,11,12 Credit: 1 (2 semesters)

Prerequisite: None

Topics studied:

1. Beginning to Intermediate level music theory
2. Basic vocal production
3. Basic music history
4. Performance etiquette
5. Espirit d'corp
6. Beginning to Intermediate level ear training
7. Choral diction, tone, and technique
8. Appreciation of all types of music

Purpose:

This class is a performance based curriculum that relies on serious study of vocal production, music literacy, and a commitment to musical excellence. Students will be grouped by voice range and ability and will be exposed to selected choral literature that represents various style periods and techniques. Students who are interested in this beginning choir should be aware that there is a requirement to participate in co-curricular performances.

SPANISH I

Grade level: 9, 10, 11, 12 Credit: 1 (2 semesters)

Prerequisite: Above average English skills

Topics Studied:

1. Grammar and usage of formal written Spanish
2. Vocabulary and spelling
3. Oral and Written Communication
4. Culture

Purpose:

The purpose of this class is to familiarize the student with the Hispanic culture and to gain mastery of the fundamental building blocks of the Spanish language through written and conversational practice.

The teacher speaks often in Spanish.

SPANISH II

Grade Level: 10, 11, 12 Credit: 1 (2 semesters)

Prerequisite: Spanish I

Topics studied:

1. Grammar and usage of formal written Spanish
2. Vocabulary and spelling
3. Advanced oral and written communication
4. Culture

Purpose:

The purpose of this class is to advance the students' understanding of Hispanic culture, and to further their mastery of oral and written communication. Instruction is given mostly in Spanish.

SPANISH III

Grade level: 11,12 Credit: 1 (2 semesters)

Prerequisite: Spanish II

Topics Studied:

1. Advanced grammar and the usage of formal written Spanish
2. Advanced vocabulary and spelling
3. Advanced oral and written communication
4. Culture

Purpose:

The purpose of this class is to advance the student's understanding of the Hispanic culture and to further the mastery of advanced oral and written communication.

Emphasis is placed on conversation and complex written communication. Very little English is used in the classroom. This class will help prepare students for the study of Spanish at the college level.

ESSENTIAL LIVING

Grade Level: 9, 10, 11, 12 Credit: 1 (2 semesters) Prerequisite: None

Topics Studied:

1. Lifestyle choices, and identify core ethical values of respect, responsibility, honesty, fairness, kindness, courage, and self-discipline.
2. Stress and conflict management
3. Develop self-defense skills
4. Current health issues, first aid and safety
5. Nutrition, healthy meal planning, food preparation
6. Friendship and dating patterns, responsible sexual decision making
7. Apartment selection
8. Community service and assets of Diversity

Purpose: This class has been developed to help students look at important issues involved in independent living. As students prepare to make their own lifestyle choices and assume adult responsibilities, they can develop skills that promote health and informed decision making. Looking now at future as well as present decisions, will help students gain confidence in themselves and explore future possibilities in a safe environment.

<p><u>ART I</u></p> <p>Grade Level: 9, 10, 11, and 12 Credit1 (2 semesters) Prerequisite: None</p> <p>Topics Studied:</p> <ol style="list-style-type: none"> 1. The Elements and Principles of Art and Design 2. Observational drawing techniques 3. Additive and subtractive sculpture 4. Color theory 5. Perspective 6. Creative problem solving 7. Non-representational art through various mediums 8. Basic visual culture study 9. Art vocabulary development <p>Purpose: Students will develop the use and understanding of the Elements and Principles of Art and Design through a comprehensive study of visual culture by production, reflection and critiques. Mediums that we will work with to increase creative problem solving skills: Two-Dimensional - graphite, charcoal, oil and chalk pastels, watercolor and acrylic paints, ink, paper collage, colored pencils; Three-Dimensional - wire, plaster, clay and paper Mache. Lessons in mixed media, bookmaking, printmaking and pinhole photography will be explored as well as color theory, perspective and the development of observational drawing skills through a personal sketchbook.</p>	<p><u>ART II</u></p> <p>Grade Level: 10, 11, and 12 Credit 1 (2 semesters)</p> <p>Prerequisite: Art I</p> <p>Topics Studied:</p> <ol style="list-style-type: none"> 1. The Elements and Principles of Art and Design 2. Observational drawing techniques 3. Personal development in 2-d or 3-d mediums of their choice 4. Creative problem solving 5. Visual Culture 6. Art Careers 7. Production of a meaningful work of art 8. Art vocabulary development <p>Purpose: Students will expand upon the study of the Elements and Principles of Art and Design through the production of artwork, study of visual culture and aesthetics. Advanced students will develop a personal style and investigate meaningful ways to express ideas in their work. There will be a strong focus on building self-confidence as an artist through the expansion of vocabulary to fluently analyze, reflect, and critique a work of art. Art 2 students will continue their progression in mediums of their choice. Cyanotypes, animation and other technology are new mediums that will also be implemented in Advanced Art.</p>								
<p><u>ART Exploration</u></p> <p>Grade Level: 10, 11, 12 Credit 1 (2 semesters) Prerequisite: Art I</p> <p>Topics Studied:</p> <table border="0"> <tr> <td>1. Integrated studies</td> <td>5. Collaborative work</td> </tr> <tr> <td>2. Museum study</td> <td>6. Installation Art</td> </tr> <tr> <td>3. Conceptual Art</td> <td>7. Visual Culture</td> </tr> <tr> <td>4. Art Advocacy</td> <td></td> </tr> </table> <p>Purpose: This course is designed to inspire the advanced Art student with an awareness of cultural significance, historical backgrounds and contemporary trends that influence Visual Art in the 21st Century. Students will develop advanced skills in a framework that focuses on production of work through the study of visual culture. Proficiency in creative problem solving will be developed by reflecting upon the meaning of art through aesthetics, time, place and society. Students will work on two main projects each marking period with their choice of medium. One of those will be an integrated assignment through another class of their choice. The four other topics that will be broken up by marking period will include: museum studies, a non-traditional/independent study of Conceptual Art, Art Advocacy and Cooperative learning and Installation Art.</p>	1. Integrated studies	5. Collaborative work	2. Museum study	6. Installation Art	3. Conceptual Art	7. Visual Culture	4. Art Advocacy		<p><u>PSYCHOLOGY/SOCIOLOGY</u></p> <p>Grade level: 11, 12 Credit: 1 (2 semesters)</p> <p>Prerequisite: Recommended for college prep students</p> <p>Topics Studied:</p> <ol style="list-style-type: none"> 1. Social Institutions - Family, education, religion, government, economy 2. Social Problems, crime, research paper requirement 3. Human relationships 4. Learning and conditioning 5. Personality and Intelligence 6. Human Development/behavior <p>Purpose: This is a college prep course designed to provide the student with a foundation in Psychology and Sociology from which they can draw for future academic study.</p>
1. Integrated studies	5. Collaborative work								
2. Museum study	6. Installation Art								
3. Conceptual Art	7. Visual Culture								
4. Art Advocacy									

ALGEBRA I

Grade Level: 9, 10, 11 Credit: 1 (2 semesters)

Prerequisite: Pre-Algebra

Topics Studied:

1. Operations on real numbers
2. Sentences involving problem solving
3. Graphing Relations and Linear Functions
4. Systems of Equations in two variables
5. Exponents and Radicals
6. Polynomials and factors
7. Quadratic Equations
8. Rational Expressions
9. Simple Trigonometric (Sin, Cos and Tan) Functions
10. Structure and Proof

Purpose: All of the above are necessary in the study of first year algebra. Algebra is the beginning of the study of many abstract areas. The logical reasoning which is developed in the study of algebra has become essential in most areas of employment.

ALGEBRA II

Grade Level: 10, 11, 12 Credit: 1 (2 Semesters) Prerequisite: Geometry

Topics Studied:

1. Further study of the Real Numbers
2. Graphing of Relations/Functions, etc.
3. Polynomials and Rational Equations
4. Linear equations and inequalities
5. Coordinate Geometry
6. Relations and Functions
7. Systems of equations in two and three variables
8. Real exponents
9. Logarithms.
10. Conic Sections
11. Sequences and Series
12. Probability
13. Trigonometric Functions
14. Use of Technology in Graphing

Purpose: A more advanced study of Algebra and Geometry. Algebra II is an excellent preparation for the study of more advanced mathematics, chemistry, and physics.

ALGEBRA IIA

Grade Level: 10, 11, 12 Credit: 1 (2 semesters)

Prerequisite: Geometry

Topics Studied:

1. Further study of the Real Numbers
2. Graphing of Relations/Functions, etc.
3. Polynomials and Rational Equations
4. Linear equations and inequalities
5. Coordinate Geometry
6. Relations and Functions
7. Real exponents

Purpose:

A slower paced version of the 1st semester of Algebra II.

ALGEBRA IIB

Grade Level: 10, 11, 12 Credit: 1 (2 Semesters)

Prerequisite: Geometry

Topics Studied:

1. Systems of equations in two and three variables
2. Logarithms.
3. Conic Sections
4. Sequences and Series
5. Probability
6. Trigonometric Functions
7. Use of Technology in Graphing

Purpose:

A slower paced version of the 2nd semester of Algebra II

GEOMETRY

Grade Level: 9-12 Credit: 1 (2 semesters)

Prerequisite: Algebra I

Topics Studied:

Points, lines, and planes Coordinate Geometry
Segments Properties of Quadrilaterals
Angle relationships Properties of Circles
Inductive reasoning Trigonometric functions
Deductive reasoning Transformations
Proof Area of Polygons and Circles
Logic Vectors
Angles and Parallel Lines Properties of triangles

Similar triangle and other polygons

Congruent triangles and other polygons

Properties of Right triangles

Properties of polygons

Volume and Surface area of three-dimensional figures

Purpose: All of the above are necessary in the study of geometry. Geometry is the study of objects in two and three dimensions. The study of geometry further develops a student's logical thinking processes, and is recommended for entrance into most colleges and universities as well as many areas of employment.

TRIGONOMETRY & PRE-CALCULUS

Grade Level: 11, 12 Credit: 1 (2 semesters)

Prerequisite: Algebra II

Topics Studied:

1. Numbers, Relations and Functions
2. Circular Functions - Graphing
3. Trigonometry
4. Functions
5. Vectors in two-space
6. Conic Sections
7. Matrix Operations
8. Introduction to Calculus

Purpose:

This course is a study of trigonometry, analytic geometry, and many advanced topics of second year algebra. Upon completion of this class, a student will be prepared for a study of calculus.

CALCULUS

Grade Level: 12 Credit: 1 (2 semesters)

Prerequisite: Trigonometry/Pre-Calculus

Topics Studied:

1. Functions and Derivatives
2. Applications of the derivatives
3. Integration
4. Continuity and Limits
5. The Differential
6. Applications of the Derivative and the Differential
7. Definite Integral
8. Logarithmic and Exponential Functions
9. Techniques of Integration
10. Polar Coordinates

Purpose:

This course is equivalent to a first semester course of college calculus, and will give the student a head-start toward college math.

EARTH SCIENCE

Grade Level: 9 Credit: 1 (2 semesters)

Prerequisite: None

Topics Studied:

1. Measurements and the scientific inquiry process
2. Classification of matter and atomic structure
3. Oceans and climate
4. Understanding the mechanics of energy and force
5. Understanding the universe and the solar system
6. Study of the atmosphere and weather
7. The concepts of geological processes

Purpose:

A freshman course, which completes the introduction to the sciences. The basic concepts of physics, chemistry, astronomy, meteorology and geology are studied.

BIOLOGY

Grade level: 10 Credit: 1 (2 semesters)

Prerequisite: Earth Science

Topics Studied:

1. Cell structure and homeostasis
2. Cell transport mechanism
3. Organic compounds
4. Photosynthesis and cellular respiration
5. Mitosis
6. Meiosis
7. Genetics (including DNA and protein synthesis)
8. Evolution
9. Ecology

Purpose:

Biology is a required class for all sophomores and is a prerequisite for anatomy. Emphasis is placed on interactions of living things and how humans impact their environment.

ANATOMY/PHYSIOLOGY

Grade Level: 11, 12 Credit: 1 (2 semesters)

Prerequisite: Biology

Topics Studied:

1. Terms of direction
2. Cell structure and organization
3. DNA and protein synthesis.
4. The following systems will be covered:
 - a. skeletal (axial and appendicular)
 - b. muscular
 - c. nervous (brain, spinal cord, peripheral nerves)
 - d. circulatory
 - e. digestive
5. Vision and the structure of the eye
6. Nutrition and metabolism
7. Cat dissection with an emphasis on the muscular and digestive systems

Purpose: Anatomy is a college preparatory class designed for Juniors and Seniors who would like to learn more about the human body and how it works. Anatomy is necessary for any students who are interested in health occupations and/or science related careers. Extensive laboratory work will be spent on dissecting the cat.

CHEMISTRY

Grade Level: 10, 11, 12 Credit: 1 (2 semesters)

Prerequisite: Biology - successful completion of Algebra I

Topics Studied:

1. Basic measurements in chemistry
2. Matter and its changes
3. Atomic structure
4. Electron configuration
5. Periodic table
6. Chemical bonding composition
7. Equations and mass relationships
8. Gas laws and molecular composition of gases
9. Solutions and ionization
10. Acids, bases, pH, titration, and salts
11. Hydrocarbons and organic compounds

Purpose:

Chemistry is a college preparatory class designed for Juniors and Seniors who plan to attend college after graduation. Extensive course work will be spent in problem solving activities and laboratory work.

PHYSICS

Grade Level: 11, 12 Credit: 1 (2 semesters)

Prerequisite: Algebra II recommended

Topics Studied:

1. Measurement
2. Force, motion and energy
3. Heat and structure of matter
4. Wave motion, sound and light
5. Electricity
6. Electromagnetism

Purpose:

Physics studies matter and energy in our universe. Problem solving is stressed with algebra and trig used for some solutions. Physics is recommended for all students planning on attending college.

WORLD HISTORY

Grade Level: 9 Credit: 1 (2 semesters)

Prerequisite: None

Topics studied:

1. Early Civilization
2. Religions
3. Middle Ages, Renaissance & Reformation, European Monarchs, Revolution, Age of Reason, Industrial Revolution, World Wars I & II, Modern History

Purpose:

This course provides an overview of World History from Egyptian civilization (3000 BC) to modern times with emphasis on European history. Concepts and facts are interwoven to give students a clear observation of historical events and why and how they shaped the modern day world. Relationships between historical events and the present are examined. Current events are also part of this study.

U.S. HISTORY

Grade Level: 10 Credit: 1 (2 semesters)

Prerequisite: None

Topics Studied:

1. Review major people and events from 1776-1850
2. The rise of Sectionalism and Industrial Development
3. The Civil War and Reconstruction
4. America as a World power
5. 1920's, 1930's, World War II, the cold War
6. Current events

Purpose:

To enable high school sophomores to gain a better understanding and appreciation of "our" heritage. Also, to give them knowledge about our past and the events that changed the course of our history.

UNITED STATES GOVERNMENT/ECONOMICS

Grade Level: 11/12 Credit: 1 (2 semesters)

Prerequisite: None

Topics Studied:

1. Foundations of Government and Federalism
2. Responsibilities and Functions of the branches of Government
3. Civil Liberties and Civil Rights
4. Taxation
5. Political Participation and Citizenship
6. Current Affairs

Purpose:

Government provides a basic knowledge of the structure and functioning of United States political system. A knowledge of government promotes an individual's ability to function responsibly as a citizen, as well as increasing his/he awareness of the world.

CONTEMPORARY AND GLOBAL ISSUES

Grade level: 11,12 Credit: 1 (2 semesters)

Prerequisite: None

Topics studied:

1. Constitutional Issues
2. Geopolitical Issues
3. Local, state, national and global issues and their impact on individuals and community.
4. Media Profile
5. Diversity

Purpose: This course is designed to develop awareness and an understanding of global, national, state, and local issues and their impact on individuals in our society. Students will investigate topical issues and examine their historic, economic, political and social perspectives. They will also discover the effect that these events have on their lives.

BUSINESS MANAGEMENT ADMINISTRATION I & II

Grade Level: 10, 11, 12 Credit: 1 (2 semesters)

Topics Studied:

1. Keyboarding and data entry
2. Word Processing, Data Bases, Spreadsheets, Presentation Software
3. Internet Projects
4. Computer Integration
5. Business Ethics
6. Employability Skills
7. Career Exploration
8. Uploading files
9. Win for Work Keys
10. Online Testing

Purpose:

Choose this exciting business oriented class to fine tune your business skills including: work habits, problem solving, decision making, career planning, computer applications, keyboarding, management and leadership. This course is designed to produce students who are ready for entry-level business careers.

**Potential for articulation credits with Baker College, Davenport University, Grand Rapids Community College and Kalamazoo Valley Community College.*

***Visual and Performing Arts and 4th Related Math Credit*

ACCOUNTING/FINANCE I

Grade Level: 10, 11, 12 Credit: 1 (2 semesters)

Topics Studied:

Starting a Proprietorship General ledger
Owner's Equity Cash Control Systems
Debit and Credit Transactions Financial Statements
General Journal

Purpose:

Planning to major in business administration or manage your own business? Then this course is for you. You will develop the ability to analyze, record and interpret business transactions on the basis of accepted principles of accounting. Basic accounting theory, the use of journals and ledgers and the preparation of financial statements are included. Computerized accounting is introduced along with traditional accounting methods.

**Potential for articulation credits with Baker College, Davenport University, Grand Rapids Community College and Kalamazoo Valley Community College.*

*** 4th Related Math Credit*

PHYSICAL EDUCATION I/HEALTH/CAREERS

Grade Level: 9Credit: 1 (2 semesters)

Prerequisite: None

Topics studied:

1. Team Sports, Recreational Sports
2. Fitness testing, weight training, exercise conditioning
3. Health - mental, physical
4. Life time activities.

Purpose:

This course introduces Physical Education to high school students. It shows the importance of fitness, strength, endurance and flexibility, as well as cooperation, fundamentals and sportsmanship in team sports. In Health the student studies the workmanship of the human body in both mental and physical capabilities. The Careers class is to help students understand that, while in High School, they begin to create their future with patterns of behavior and academics; to begin formulating an academic schedule for the remainder of their high school career based on their future career interests.

PHYSICAL TRAINING

Grade Level: 10, 11, 12 Credit: 1 (2 semesters)

Prerequisite: Physical Education I

Topics studied:

1. Aerobic exercise
2. Strength training
3. Fitness enhancing activities
4. Developing a physically healthy lifestyle
5. Identification of unhealthy choices
6. Safety in physical training

Purpose:

Physical training is a course, which will focus exclusively on the physical health of the student. There will be an emphasis on individual physical assessment, goal setting, and utilization of class time to enable students to reach goals through a variety of physical training modes.

Education for Employment **2011-12 Course Descriptions**

Arts and Communication Career Pathway

Art & Design Career Skills

Students develop visual literacy skills and techniques, as well as explore the many different career possibilities in the field of art. Some of the visual literacy training includes lessons in composition, the meaning of colors theory, the meaning of shapes theory, drawing skills, design skills, and understanding design theory. The course explores many different media, including traditional and digital. Speakers and recruiters from leading national art colleges will explain the many different careers and their training paths. Students develop skills in computer design, illustration, fashion design and graphic techniques, animation, interior design and the graphic arts. The development of a professional art portfolio is a major focus of the class. This program seeks to prepare students for an art career. Students may take this course for two years.

**Potential for articulated credits with Ferris State University, Kalamazoo Valley Community College and Lake Michigan College*

**4th Related Math and Visual and Performing Arts Credit*

**Taught at Kalamazoo Central High School*

Digital Video Production

This course provides students with entry-level skills in the expanding field of digital production: corporate video departments, broadcast television stations, advertising agencies, etc. This course emphasizes the skills and work ethic needed for these exciting careers. Areas of study and practice will focus on documentaries, educational programming, and television journalism projects. This class provides students with the opportunity to enter local and national competitions as well as airing student work on PMN stations. All these skills revolve around the use of proper techniques to produce high-quality video and audio using digital technology. Whether you want to see your name in lights or scrolling by in the end credits, this course will teach you how to use technology to communicate effectively with the audience. LIGHTS - CAMERA and YOU!

**Potential for articulated credits with Ferris State University*

**Visual and Performing Arts Credit*

**Taught at Public Media Network at the Epic Center*

Photography - Digital Imaging

This course provides students with entry-level skills in basic black and white 35 mm photography and digital imaging. This course also covers traditional darkroom techniques along with introductory professional training in computer imaging. Adobe Photoshop and other appropriate applications are an integral part of the digital imaging sections of the curriculum. Students may also learn alternative process techniques, photojournalism, studio photography, photographing people and landscapes and night photography. Other course topics include photo restoration, the photograph as art and photographs in advertising. In addition, students will learn how to mount, mat, and display their various photographic assignments. Students may take this course for two years.

**Potential for articulated credits with Kalamazoo Valley Community College and Lake Michigan College*

**Visual and Performing Arts Credit*

**Taught at Kalamazoo Central High School*

Radio Broadcasting

This course is ideal for students who want to work in the field of radio broadcasting. Students will gain work experience on a student-run and managed radio station, 89.9 FM WKDS. This course explores all aspects of the radio broadcasting industry including radio production, being an on-air personality, marketing, sales, promotion, engineering, writing for radio news and the history of the industry. Students may take this course for two years.

**Visual and Performing Arts Credit*

**Taught at Public Media Network at the Epic Center*

Business, Management, Marketing and Technology Career Pathway

Accounting/Finance I

See page 55 for course description.

Accounting - College

This college-level course is for the student who has a strong interest in the financial and managerial aspects of business and is committed to independently reading a college-level textbook and completing rigorous homework assignments. College Accounting uses an integrated approach to teach accounting.

Students first learn how businesses plan for and evaluate their operating, financing and investing decisions and then how accounting systems gather and provide data to internal and external decisions makers. This year-long course covers all the learning objectives of a traditional college level financial accounting course, plus those from a managerial accounting course. Topics include an introduction to accounting, accounting information systems, time value of money, and accounting for merchandising firms, sales and receivables, fixed assets, debt and equity. Other topics include statement of cash flows, financial ratios, cost-volume profit analysis and variance analysis.

**College credits are being pursued*

**4th Related Math Credit*

**Taught at Comstock High School*

Banking & Finance

This course provides students with a background in customer service, personal finance, budgeting, investment planning, and business financial management. Students gain exposure to the various career options in the field. They learn how the financial decisions that they make today affect their future. The students will develop a career portfolio as a part of the program. The banking course partners with Access First Federal Credit Union, which operates a branch location on site and provides internship opportunities in the banking industry for students in the program.

**Potential for articulated credits with Davenport University*

**4th Related Math Credit*

**Taught at Galesburg-Augusta High School*

Business Management Administration I & II

See page 55 for course descriptions.

Computer Network Administration I (Network +)

This course concentrates primarily on the requirements of the Comp TIA Network+ certification. Study includes network topologies, the Open System Interconnection (OSI) model, network protocol standards, wiring standards, network operating systems, workstation configuration, and advanced topics. This program is a partnership with Secant Technologies.

**Location TBD (to be determined)*

Computer Technology (A+)

This hands-on course concentrates on the requirements of Comp TIA A+ industry-recognized certification. Study includes computer hardware standards and components, software standards, installation, configurations and computer troubleshooting with emphasis on PC hardware, software, and operating systems.

**Potential for articulated credits with Baker College, Davenport University, Grand Rapids Community College, Kalamazoo Valley Community College and Lake Michigan College*

**4th Related Math Credit*

**Taught at Loy Norrix IT Academy*

Computer Technology (A+)/Dynamic Web Programming

This hands-on course concentrates on the requirements of Comp TIA A+ industry-recognized certification. Study includes computer hardware standards and components, software standards, installation, configurations and computer troubleshooting with emphasis on PC hardware, software, and operating systems. The remainder of the class will be spent on creating simple computer games to demonstrate advanced business-to-business programming possibilities with PHP. This part of the course prepares students for the challenging careers in dynamic web page design or game programming. The second-year advanced level of the course concentrates on the advanced requirements of the Comp TIA A+ (such as Networking and Digital Home Technology Integration). Students will focus on networking and digital home integration of audio, video, computer technology, and other home technology equipment and Dynamic Web Programming skills. This course concentrates on programmable web interfaces to data stored in a MySQL database using WAMP and/or LAMP interface. Students gain skills in many CompTIA Linux+ and Network+ objectives. Students may take this course for two years.

**Potential for articulated credits with Baker College, Davenport University, Grand Rapids Community College, Kalamazoo Valley Community College and Lake Michigan College*

**4th Related Math and Visual and Performing Arts Credit*

**Taught at Loy Norrix IT Academy*

Culinary Arts

Students taking this course will learn the fundamentals of cooking and baking as well as food safety, food prep and service, sanitation and safety, maintenance of tools and equipment and nutritional guidelines. Students also develop the cooking and baking skills necessary to be successful in the culinary industry. The course will emphasize creative, hands-on food preparation in a fully equipped kitchen, as well as professionalism and work habits required in this industry. Students will have the opportunity to receive work-based training such as job shadowing, field trips and other capstone experiences at area restaurants. The curriculum includes the National Food Industry standards for the ServSafe Certification, an industry credential that verifies that an applicant entering the workforce has the necessary skills for employment.

**Potential for articulated credits with Baker College, Ferris State University and Lake Michigan College*

**4th Related Math and Visual and Performing Arts Credit*

**Taught at Maple Street Magnet School for the Arts*

Hotel, Restaurant, and Travel Management

This course provides students with a basic understanding of the hospitality industry and related careers. In addition to course work, students will participate in job shadowing experiences. Hotel, Restaurant and Travel Management (HRTM) is one of America's fastest-growing industries. Areas of study in this program include lodging and restaurant operations and management, travel and tourism planning and food and beverage management.

**Potential for articulated credits with Grand Rapids Community College and Lake Michigan College*

**4th Related Math Credit*

**Taught at Rose Street Market*

Marketing

Marketing is the process of planning, pricing, promoting, selling and distributing ideas, goods or services to create exchanges that satisfy a customer. Course work teaches the principles of advertising, display, sales, merchandising, economics, and marketing in a global economy. Students train in techniques businesses use to persuade consumers to buy products or use services. This exciting course teaches many transferable skills that students can use immediately in the workplace or to pursue a business degree at a postsecondary institution.

Potential for articulated credits with Baker College, Davenport University and Kalamazoo Valley Community College

**4th Related Math and Visual and Performing Arts Credit*

**Taught at Portage Northern High School*

Engineering, Manufacturing and Industrial Technology Career Pathway

Automotive Technology

This National Automotive Technician Education Foundation (NATEF) certified program covers four major areas of automotive service: engine electrical, engine performance, brake systems and steering and suspension. Students have the opportunity to become state certified as well as to earn credit toward completion of an associate degree or other post-secondary training. Students may take this course for two years.

**Potential for articulated credits with Baker College, Grand Rapids Community College, Kalamazoo Valley Community College and University of Northwestern Ohio*

**4th Related Math Credit*

**Taught at Comstock and Loy Norrix High Schools*

Aviation Technology

This course is a great way to jump-start a career in aviation, allowing students to study airframe and power plant mechanics in addition to learning the ground school portion of a private pilot license. The program emphasizes the application of advanced math and science concepts and prepares students for post-secondary education and training.

Students have the opportunity to interact with industry experts and visit leaders in the field of aviation for career exploration. After completing this course, students will be prepared to take the test for the ground school portion of their private pilot license.

**Potential for articulated credits with Baker College and Northwestern Michigan College*

**4th Related Math Credit*

**Taught at Kalamazoo Air Zoo*

Construction Trades

This course exposes students to several aspects of the construction industry including site, layout, carpentry, electrical, masonry, plumbing, heating, plastering, painting, and other construction skill areas.

Students experience hands-on training in remodeling and/or new construction as well as classroom training. Students interested in this course should understand basic concepts of measurement and mathematics and be able to work indoors or outdoors. Students may take this course for two years. This program is a partnership with Kalamazoo Valley Habitat for Humanity.

**Potential for articulated credits with Ferris State University and Kalamazoo Valley Community College*

**4th Related Math and Visual and Performing Arts Credit*

**Taught out of Comstock and Schoolcraft High Schools and in connection with the Kalamazoo Valley Habitat for Humanity Program*

Drafting: Architectural I – Residential

This course is for the student who wants to explore the field of architecture or interior design. Using a hands-on approach, students are given the opportunity to use their creativity and imagination to design residential structures. Exercises include hand and computer drafting to design residential building floor plans, sections and elevations which are typical to those used by contractors. Green Architecture, design concepts, and professional vocabulary will be emphasized. Students will use high-tech software to create their own designs on the computer.

**Potential for articulated credits with Baker College, Grand Rapids Community College, Kalamazoo*

Valley Community College and Lake Michigan College

**4th Related Math and Visual and Performing Arts Credit*

**Taught at Kalamazoo Central High School*

Drafting: Architectural II - Light Commercial

This course is for the student interested in a career in architecture or construction. Students are required to create a comprehensive building design project that includes site design, building design and development of architectural details. Students will be given the unique opportunity to work with a mentor architect on their design project. Students will research Green Architecture, building requirements, commercial building codes and handicap accessibility, and will use this in their design. Emphasis is on using applications that are commonly found in professional offices.

**Taught at Kalamazoo Central High School*

Drafting: Architectural III: Presentation and Rendering

This course offers demonstrations and exercises to deepen students' understanding of the communication process, increase familiarity with different expressive forms of graphic art, and further advance skills in the use of multimedia such as video clips. Projects will be based on interest and/or the trimester the student enters the course. Projects can be models produced on the laser cutter, photo realistic drawings, or architectural animations.

**Taught at Kalamazoo Central High School*

Drafting: Mechanical I – Introduction to Engineering and Design

This course is a must for students who are anticipating a career in engineering, technical illustration, design, drafting, CAD, the trades or other technical fields. This is an intermediate course for students with limited or no Computer-Aided Drafting (CAD) experience. Use of standard drafting technique will be developed; geometric construction, orthographic projection, auxiliary views, section views, and dimensioning practices will be emphasized. Students will focus on the design and assembly of 3D parametric models, assembling parts together, creating 2D drawings and adding animation to their assemblies. Students will use high tech software to do their design work on the computers.

**Potential for articulated credits with Baker College, Grand Rapids Community College, Kalamazoo*

Valley Community College and Lake Michigan College

**4th Related Math and Visual and Performing Arts Credit*

**Taught at Kalamazoo Central High School*

Drafting: Mechanical II – Applied Engineering and Design

This course is project based. It gives students the opportunity to use their creativity to solve problems and figure out how things are designed. Students will be given the unique opportunity to work with a mentor engineer to help them with their design project. Projects will be in the areas of biomedical, alternative energies, and inventions to mention a few. Students will produce their project using the rapid proto-type machine, CNC lathe, CNC mill and laser cutter. A thorough study of machine component design, tolerancing of mating parts and creating assemblies will be taught in this course.

**Taught at Kalamazoo Central High School*

Electrical Technology

Students in this course are dually enrolled and have the opportunity to earn college credit through Kalamazoo Valley Community College. This course provides instruction and training in the areas of applied electricity, residential wiring and code, and safety and first aid. Students will learn basic electrical theory and practices as well as wiring theory and gain lab experience. Upon successful completion of this course, the student should have the knowledge and ability to wire a residence according to the national electrical code. Throughout the program, students gain valuable practical experience working on residential, commercial, and industrial wiring. Students interested in this class should enjoy working with mathematical formulas and algebra concepts.

**Potential for articulated credits with Grand Rapids Community College and dual enrolled credits at Kalamazoo Valley Community College*

**4th Related Math Credit*

**Taught at KVCC*

Electronics and Robotics

This is an excellent course for students to use their creativity to solve problems and figure out how things work. A hands-on approach will introduce students to concepts and skills in current and emerging technical fields. The course features high-tech equipment and programs in a student-centered classroom. Projects challenge and engage students' minds to provide a strong foundation that could launch them into engineering or other high-tech careers such as alternative energies, robotics and automated systems, optics, biomedical, and nanotechnology. Students may take this course for two years.

**Potential for articulated credits with Baker College, Grand Rapids Community College, Kalamazoo Valley Community College and Lake Michigan College*

**4th Related Math and Visual and Performing Arts Credit*

**Taught at Kalamazoo Central High School*

Furniture and Cabinetmaking

This course provides students with hands-on experience in the production of furniture and cabinetry. Students will complete projects designed to develop skills in group production, project design and layout, frameless construction using the 32mm system, techniques in joinery machine maintenance and use, wood identification and properties, wood turning, computer numerically controlled mill/lathe programming and use, fixture design and fabrication, and millwork. Students may take this course for two years. Second-year students will focus on advanced wood techniques that will incorporate the interests and needs of area industries and the individual interest of the student.

**Potential for articulated credits with Michigan Career & Technical Institute*

**4th Related Math and Visual and Performing Arts Credit*

**Taught at Portage Northern High School*

Heating, Air Conditioning, and Refrigeration

Students in this course are dually enrolled and have the opportunity to earn KVCC college credit in addition to high school credit. This course provides instruction and training in the areas of heating, ventilation, air conditioning and refrigeration as well as the design, installation, and servicing of HVAC/R systems. HVAC prepares students for a technical career upon completion.

**Potential for dual enrolled credits with Kalamazoo Valley Community College and articulated credits with University of Northwestern Ohio*

**4th Related Math Credit*

**Taught at KVCC*

Machine Tool Technology

This course provides students with hands-on experience in machining and manufacturing methods in an industrial-like setting. The course includes information on the operation of computer-aided design and computer manufacturing systems, machine tool equipment, machining of alloys, heat-treating operations and plastic molding systems. It also features demonstrations and maximizes student laboratory work (80% hands-on).

Students gain planning, organizing, and decision-making skills while also developing acceptable attitude, interpersonal and equipment-related skills. Machine Tool prepares students for immediate employment, advanced schooling, and/or apprenticeship opportunities with local area employers. Students may take this course for two years.

**Potential for articulated credits with Grand Rapids Community College, Kalamazoo Valley Community College and Lake Michigan College*

**4th Related Math and Visual and Performing Arts Credit*

**Taught at Vicksburg High School*

Welding

Students in this course are dually enrolled and have the opportunity to earn college credit from Kalamazoo Valley Community College in addition to high school credit. Students must follow all requirements of a dual-enrolled program. Students learn to weld with the most advanced welding processes used today. Content includes the basic safe operation of the ox-fuel welding, cutting, and brazing systems. Students also receive training in the basic electric arc welding processes, SMAW (arc), GMAW (mig), and equipment setup, selection and operation. Blueprint reading for welders, welding symbols and basic welder's trade math are included to prepare the student for employment in the welding trade.

**Potential for dual enrolled credits with Kalamazoo Valley Community College and articulated credits with Lake Michigan College*

**4th Related Math and Visual and Performing Arts Credit*

**Taught at KVCC*

Wind Energy Technology

Students taking this course will explore career opportunities in the wind power industry through the study of how people harness wind to produce power and an overview of the technology and equipment found in a wind turbine. The program will discuss both utility scale and community wind equipment. Units of study will include: the role of wind power in creating a diverse renewable energy portfolio; meteorology, the characteristics of wind, and issues associated with siting of wind turbines; identification of the primary electrical, electronic, and mechanical systems within a wind turbine; fundamental knowledge of how each system operates; overview of the maintenance requirements for each component; essential safety practices; and career opportunities in the wind industry. The course includes work in the classroom and the opportunity to work in the lab.

**4th Related Math Credit*

**Taught at KVCC's Michigan Technical Education Center (M-TEC)*

Health Sciences Career Pathway

Dental Assistant

This course prepares students to become dental assistants. Students learn the fundamental knowledge and skills of dental anatomy, physiology, terminology, dental materials, chairside assisting, sterilization, radiology, laboratory, and clinical procedures. Second semester consists of a paid or unpaid externship at a local dental office.

**Potential for articulated credits with Kalamazoo Valley Community College*

**3rd Science Credit*

**Taught at KVCC and local dental offices*

Emergency Medical Technician Program (EMT)

The EMT course provides students with instruction in basic emergency medical technology. The EMT course is a study of the topics and skills necessary to make lifesaving interventions and stabilize patients during transport to a medical facility. This course not only involves lecture and practical skill labs but also introduces the clinical component of EMS education, the minimum level of training required for work on a transporting ambulance. During second semester, students will complete clinical hours with a local ambulance service and healthcare agencies. Upon successful completion of this course, students are eligible for the National Registry Basic EMT licensing examination.

**Potential for articulated credits with Kalamazoo Valley Community College*

**3rd Science Credit*

**Taught at KVCC*

Health Science

This course introduces the student to health care, with an emphasis on core skills and knowledge applicable to many professional health care disciplines. The curriculum integrates anatomy and physiology, medical terminology, and basic care skills through practical applications found in the health care setting. Students will investigate career choices through workplace observations. Students should enjoy working at a fast pace and be considering a healthcare career requiring a minimum of four years of post-secondary education.

**Potential for articulated credits with Baker College, Davenport University, Grand Rapids Community College, Kalamazoo Valley Community College and Lake Michigan College*

**3rd Science Credit*

**Taught at Comstock Education Service Center*

Health Science-Fundamentals

The Fundamentals of Health Science program is ideal for students interested in exploring healthcare careers. Instruction will provide the skills and knowledge (both academic and technical) necessary to pursue entry level, advanced certification and/or a two-year degree. Special emphasis is on physiology, anatomy, medical terminology, patient assessment/vital signs, infection control, medical ethics, job-related safety, CPR, first aid and communication. Students should be dependable, well motivated, and show a sincere interest in health care.

**Potential for articulated credits with Davenport University, Grand Rapids Community College, Kalamazoo Valley Community College and Lake Michigan College*

**3rd Science Credit*

**Taught at Comstock Education Service Center*

Health Science-Professional

Professional Health Science provides advanced training and experience in the healthcare field. The course includes internship experiences, enrollment in advanced skill mini courses (phlebotomy, electrocardiography, patient care assistance, and exercise science/sports medicine) and college-level course work. Students successfully completing CPR/AED and medical terminology instruction may receive articulated college credit. This second-year course represents the most advanced level of study in the health science program. Students applying to the program must meet specific achievement and performance prerequisites within either Health Science or Fundamentals of Health Science before gaining admission.

**Taught at Comstock Education Service Center and local healthcare partnerships*

Human Services Career Pathway

Cosmetology/Barbering

This is a state-certified program of instruction designed to prepare students to become a licensed professional cosmetologist or barber. Michigan's cosmetology course includes 1,500 clock hours (barbering includes 2,000) of mandatory attendance. In order to complete this requirement, students must be committed to attending the program during an extended day all through their junior and senior years and the summer that falls between. Upon successful completion of this prerequisite, students will be prepared to take their Michigan State Board Exam. Students not meeting this requirement during their EFE enrollment will need to complete the program at their own expense.

****3rd Science and Visual and Performing Arts Credit***

****Taught at both West Michigan College of Barbering and Beauty and Wright Beauty Academy***

Early Childhood Education

Students will prepare for employment opportunities that involve working with young children. Although child care career preparation is the major emphasis, it is also a valuable course for students interested in elementary teaching.

Students will gain experience through working in the on-site, state-licensed child care center and by job shadowing throughout the Kalamazoo area. Students have the opportunity to plan activities, apply basic principles of child guidance and gain supervised job experience.

****Potential for articulated credits with Baker College, Grand Rapids Community College, and Kellogg Community College***

****Visual and Performing Arts Credit***

****Taught at Loy Norrix High School***

Law Enforcement

This unique program features a Kalamazoo Public Safety officer as the instructor and also includes numerous other public safety officers with various backgrounds as guest speakers.

Law Enforcement I introduces students to the many different careers available within the law enforcement field. The program emphasizes the knowledge, skills, and ethics needed to be a successful police academy recruit. Areas of study include criminal law, patrol procedures, fire ground operations, first aid/CPR/AED training, defensive tactics, crime scene investigation, and oral and written communication skills. The program follows police academy standards including uniforms and chain of command.

Law Enforcement II deepens students' understanding of criminal procedures and improves their written and oral communication skills. Eligible students will intern with local public safety agencies during second semester, where they will apply the knowledge, skills, and ethics learned to real world situations.

****Potential for articulated credits with Davenport University, Grand Rapids Community College and Kalamazoo Valley Community College***

****12th Grade Language Arts Credit***

****Taught by a Kalamazoo Department of Public Safety Law Enforcement Officer at the Comstock Education Service Center***

Teacher Cadet

This course is for high school seniors who have a desire to pursue a career within the field of education. The intent of the program is to prepare students for a life in teaching with the expectation that they gain the experience necessary to make an informed choice. Students will work in an elementary, middle school or high school classroom for three days per week under the direct supervision of a certified teacher. The remaining two days per week will involve related course work and portfolio development.

****Taught at Gull Lake and Portage Central High Schools***

Natural Resources and Agriscience Career Pathway

Animal Technology

Students will learn about the basic care of animals including the anatomy, health, reproduction, and nutritional requirements of animals. This course gives special emphasis to the production of companion animals and livestock. Students explore careers in the animal industry and attain the skills necessary to seek out employment in the animal sciences. This is a laboratory/field-based class that involves animal dissections, job shadowing, and field trips.

*3rd Science Credit

**Taught at Vicksburg High School*

Veterinary Science

During the first semester, students will focus on anatomy, medical terminology, hematology, animal breeds, animal health and care, restraint and handling, veterinary lab procedures and parasitology. The second semester will combine continued classroom instruction on specific skills with field work in area veterinary clinics. This program will introduce students to and help prepare students for various jobs in the field of veterinary medicine.

*3rd Science Credit

**Taught at Sprinkle Road Veterinary Clinic*

Work-Based Learning

Cooperative Education (Co-Op)

Cooperative Education is an opportunity for students to “earn while they learn.” Co-op is a method of instruction, through written cooperative arrangements between school and employers, providing students with an opportunity to extend their Career/Technical Education preparation beyond the classroom.

Students who have completed at least 50% of an Education for Employment class can gain valuable work experience, while earning both money and high school credit. It’s a great opportunity to increase awareness of the broad spectrum of occupations in an area of interest, and practice teamwork in the real working world while developing positive work attitudes and habits.

Participating students shall:

Be employed in a coordinator-approved work setting,

Work 10-15 hours per week in class-related, legal employment,

Receive release time from school, school credit, on-the-job training, and pay, and

Will be evaluated every marking period by his/her employer.

Prerequisite: EFE/CTE related class. Successful completion of 50% and continued concurrent enrollment or EFE/CTE completer status.

NOTE: Students are not to be officially enrolled in co-op until the Co-op Coordinator has approved their application and job site. Additionally, employment is subject to forces outside of the control of the school district, therefore, employment cannot be guaranteed. For these reasons, it is recommended that students maintain a full schedule of classes until all conditions are met.

Registered Apprenticeship

Employers sponsor students through the Federal Bureau of Apprenticeship Training for a skilled trade. During the apprenticeship period (two to four years, depending upon the occupation), the student combines on-the-job training at the company with related classroom instruction at school. Upon high school graduation, courses are continued at a post-secondary institution. While in this apprenticeship, the student will:

Be employed in a coordinator-approved work setting,

Work 10-15 hours per week in class-related, legal employment,

Receive release time from school, school credit, on-the-job training, and pay while earning a journey person’s card, and

Will be evaluated every marking period by his/her employer.

Theatre Technology Internship

Students will work alongside theatre professionals in the areas of scenic construction, lighting/sound/special effects design, costume design, properties design, scenic painting, stage management, and box office management. The course explores all aspects of technical theatre. A once-a-week seminar enhances studies.

**Taught at Kalamazoo Civic Theatre*

**KALAMAZOO RESA
EDUCATION FOR THE ARTS
COURSE OFFERINGS 2011-2012
SCHOOLCRAFT HIGH SCHOOL**

DANCE

Dance I: Beginning Technique and Choreography

Learn the basic elements and discipline of formal dance technique, exploring classical modern dance, ballet, jazz, and cultural dance styles. Exploration of dance-related subjects will include movement improvisation, composition, and dance history. Students gain performance skills, learn how to choreograph their own dances and are required to participate in EFA dance concerts each semester. They will have the opportunity to take field trips to see live dance concerts and attend master classes. Students will work with professional dance educators and guest artists.

Grades 9, 10, 11, 12 (full year or semester offerings)

Daily Offerings:

Second Semester, Portage Administration Building, 9:38 – 11:21 am, 1.0 credit

Full Year, LNHS (tri 1 & 2), KCHS (tri 3), 7:35 – 9:05 am, 2.0 credits

After School Offerings (full year)

Full year, Portage Administration Building , 3:15 – 5:00 pm, Tuesday and Thursday, 1 credit

Full year, Epic Center, 7:00 – 8:45 pm, Monday and Wednesday, 1 credit

Dance II: Advanced Technique and Choreography

Learn elements of advanced dance technique with further development of skills in modern, ballet, jazz, and various cultural dance forms. Related class work will focus on the development of choreographic and performance skills; creating and learning dances and building a performance repertory. Students are required to participate in EFA dance concerts each semester. They will have the opportunity to take field trips to see live dance concerts and attend master classes. Students will work in the studios of Western Michigan University Department of Dance with professional dance educators and guest artists.

Prerequisite: audition, DANCE I and/or permission of instructor

Grades 10, 11, 12 (full year)

2 credits

Western Michigan University, Dalton Center

7:40 – 9:00 am

Integrated Dance/Health/PE

This class integrates dance, physical education, and health. During first semester students will study dance and physical education, earning ½ credit in fine arts and ½ credit in PE. During second semester students will study dance and health, earning ½ credit in health and an additional ½ credit in fine arts. The course will afford students opportunities to develop creative skills in dance, explore a variety of lifetime fitness and sports activities, and learn about important diet, nutrition and health-related issues.

Grades 10, 11, 12 (full year)

2 credits

Epic Center

Monday and Wednesday, 3:00 – 6:00 pm

MEDIA ARTS

Digital Video and Film

This introductory course is for students who have never touched a camera, as well as those who have made videos on their own. Through a combination of film viewing, film and digital video production, and critiquing of works-in-progress/finished works, students will learn what makes the moving image work and how they can make it work for them. At the end of the year students will have a personal portfolio of a variety of video projects, as well as the skills to handle a camera efficiently, see and use light effectively, and use professional video editing programs to communicate their visions successfully.

Grades 10, 11, 12 (full year)

Epic Center, 7:30 – 9:30 am or 9:30 – 11:30 am, 2-3 credits (fulfills 12th grade language arts requirement)

Vicksburg High School, 7:40 – 9:00 am, 2 credits

Evening Option:

2nd Semester, Epic Center, 7:00 – 8:45 pm, Monday evenings, 0.5 credit (30 hrs additional lab time required for credit)

Design for Digital Media

In this computer-based art class, students will learn about design concepts, become familiar with terminology related to digital art, and create digital images and animation. They will learn about digital photography and composition, and they will be introduced to many techniques in Photoshop, Flash, and digital video. Projects include photo manipulation, digital painting, digital storytelling, and animation.

Grades 10, 11, 12 (full year)

2-3 credits (fulfills 12th grade language arts requirement)

Kalamazoo Institute of Arts

7:30 – 9:30 am

9:30 – 11:30 am

Evening Option (1/2 credit)

1st Semester, Epic Center, 7:00 – 8:45 pm, Monday evenings (30 hrs additional lab time required for credit)

Intro to Media Design Online

In this online-only class, students will learn about digital photography, stop-motion animation, and digital storytelling. They will learn many techniques in Photoshop, including color adjustment, brushes, selections and movement, layers, and more, and we will explore important digital media topics like Web 2.0 and copyright. Projects created in this class will include photography, Photoshop compositions, and short video pieces.

Grades 10, 11, 12 (first semester)

1 credit (fulfills online credit requirement)

Online class, time determined by student

Advanced Multimedia Arts

This advanced course consists of continued study of new art forms made possible through the use of professional computer technologies such as Final Cut Pro, Sibelius, and the Adobe Suite; Photoshop, Illustrator, After Effects, Flash, and Soundbooth. Integrating video, music, sound, film, still images, and interactive media, students work individually or in small groups to create art for the internet, experimental film, digital video and photography, new media installations and performances, narrative storytelling, documentary video, and whatever else springs from their imaginations.

Prerequisite: Media Arts, Design for Digital Media, or Music for Life passed with a minimum B average and consent of instructor.

Grades 11, 12 (full year)

3 credits

Epic Center

12:00 – 2:00 pm

THEATRE & MUSIC

Theatre Practice and Performance

Through in-depth study and practice of every aspect of theatre, students will learn the basics of improvisation, writing, directing and acting for the stage as well as integrating image and music into their own theatrical performances. Meeting every day in a state-of-the-art professional theatre, students will work with practicing artists exploring different forms of theatre, from classical to contemporary, and many things in between. These experiences will inform the development of each student's distinct writing style and their own original work using the creative process in theatre and drama. Students will participate in a minimum of two class performances and visit area theatres to experience a variety of stage productions.

Grades 10, 11, 12 (full year)

2-3 credits (fulfills 12th grade language arts requirement)

Epic Center

9:30 – 11:30 am

Advanced Musical Theatre Workshop

Using a workshop approach, students will experience an in-depth study of musical theatre in order to enhance their appreciation of the genre and to improve their practical performance skills in acting, vocal and dance performance. Mentored by theatre, vocal and dance educators and guest artists, students will have the opportunity to explore, perform, and critique various aspects of musical theatre from the past to the present. Emphasis will be placed on creative and innovative approaches to performing works.

Grades 10, 11, 12 (full year)

2 credits

Portage Central High School

12:00 – 2:00 pm

Music for Life

For students who love music – who are singing in a choir, playing in an ensemble, taking private lessons, or jamming with a garage band - this course will enrich their musical skills and experiences. Students will attend and respond to live and recorded performances, developing an understanding of musical style, composers, instruments, time periods and cultural influences. They will hear from guest artists and music professionals about careers in music. They will also expand their knowledge and practice of comprehensive musicianship through theory lessons and composition projects, utilizing the latest computer technology and music notation software in the Epic Center's state-of-the-art computer lab.

Grades 10, 11, 12 (full year)

1 credit

Epic Center Technology Lab

Tuesday evenings, 7:00 – 8:45 pm