Schoolcraft High School

Curriculum Guide

2023-24

Career Pathways
Program of Studies

Statement of Non Discrimination

Title VI, Title IX, Section 504, and Title II

The Board of Education's intent is to provide an environment that fosters the respect and dignity of each person. To this end, the Board is committed to maintaining an environment free of harassment and intimidation in all areas including race, color, national origin, sex, and disability.

Title VI, Title IX, Section 504, and Title II Contacts

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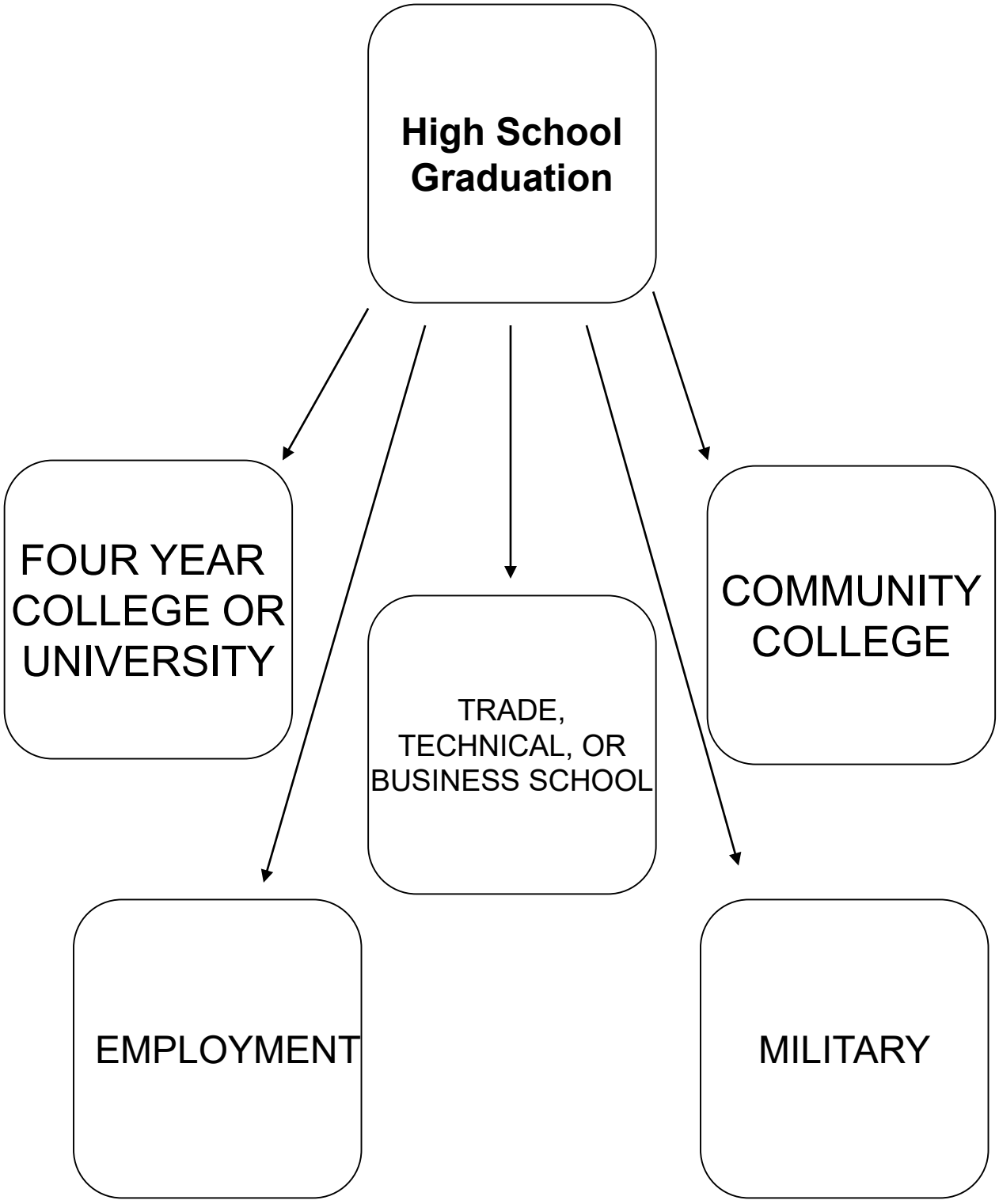
CAREER PATHWAYS



Mission Statement

Educating and empowering each student to be successful in life.

Vision Statement

In partnership with families and community, we will be a culture of excellence where learning thrives and each student has the knowledge, skills, and core values to be a positive global influence.

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 counselors, 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 their 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. 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

Due to the implications of the pandemic starting in the spring of 2020, Schoolcraft High School transitioned form a Trimester Schedule to a Semester schedule. This adjustment altered the total number of credits available to our students. Effective with the Class of 2024 and beyond, students will have an opportunity for a maximum of 24 credits with a minimum requirement of 20 credits. Students must pass and be awarded credit for all Michigan Merit Curriculum (MMC) required classes (18 credits total).

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
World Language	2 credits

RECOMMENDED CORE CREDITS BY GRADE

9th Grade: English 9 Algebra I or Geometry Physical Science World History Physical Education/Health Spanish 1	**10th Grade:** English 10 Geometry or Algebra 2 Biology or Chemistry US History BMA I Spanish 2
11th Grade: English 11 Algebra 2 or Trig/Pre Calculus Chemistry or Physics or Anat./Physio. US Gov. & Econ.	**12th Grade:** English 12 Trig/PreCalc or Honors 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 what require different levels of educations 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
_____Business Management& Marketing Technology
_____Engineering/Manufacturing & Industrial Technology
_____Health Sciences
_____Human Services
_____Natural Resources & AgriScience

Career Focus: **Career Goal:**_____

____ Technical
____ Professional

9th Grade English 9 Algebra 1 or Geometry Physical Science World History Physical Ed./Health Spanish 1 _____	**10th Grade** English 10 Geometry or Algebra 2 Biology or Chemistry US History BMA Spanish 2 _____
11th Grade English 11 Algebra 2 or Trig/PreCalc Chemistry, or Physics, or Anatomy US Government/Economics _____ _____	**12th Grade** English 12 Trig/PreCalculus or Honors Calculus or Other Math _____ _____ _____ _____

Student Signature:_____ Parent Signature:_____

ARTS AND COMMUNICATIONS

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?

Sample of Technical Careers

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

Sample Professional Careers

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

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

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

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 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

Sample Professional Careers

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

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

Sample of Professional Careers

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

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

Sample of Professional Careers

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

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 Gardner
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

COURSE OFFERINGS

Business
BMA 1
BMA 2
Accounting Finance 1

English
English 9
English 10
English 11
English 12

Foreign Language
Spanish 1
Spanish 2
Spanish 3

Physical Education
Physical Ed 1/Health
Physical Training
Adv. Physical Education

Fine & Applied Arts
Art 1
Art 2
Art Portfolio
Band
Vocal Music
Yearbook

KVCC Classes
11th – PSI 101/ECO 110
12th – ENG 110/111

*On-Line Learning (Virtual)

KVCC@KVCC

Math
Algebra 1
Geometry
Algebra 2
Trig/Pre-Calculus
Honors Calculus

Science
Physical Science
Biology
Chemistry
Physics
Anatomy

Social Studies
World History
U.S. History
U.S. Government/Econ

Career & Technical Education

Agriscience:Animals & Plants
AP Computer Sci. Principles
Art & Design Career Skills
Automotive Tech.
Aviation Tech. 1
Aviation Tech. 2
Banking & Finance
BMA 1
Certified Nursing Asst. (CAN)
CTE Work-Based Learning(CoOp)
Computer Sci/Software Eng.
Computerized Manufacturing
Construction Trades
Conservation Biology
Cosmetology/Barbering
Culinary Arts
Dental Assisting
Electrical Technology
Electronics & Robotics
Emergency Med Tech (EMT)
Engineering in Wood Tech.
Health Science
Heating, Vent. & Air Cond.
Horticulture
Information Technology 1
Information Technology 2
Law Enforcement 1
Law Enforcement 2
Mechatronics
Media Production
Professional Health Science
Teacher Academy
Veterinary Science
Welding

Education for the Arts (EfA)

Beginning Dance & Intermediate Dance
Advanced Musical Theater
Hip-Hop 180
Theater Improve & Scriptwriting
Film &Video Arts
KVCC Media Arts
Digital Studio Art
Digital Photo Art
3D Computer Animation & Game Design
Creative Writing
Comics, Manga & Graphic Novel Arts
Visual Arts Exploration
Advanced Visual Arts Studio

Michigan Virtual High School
www.mivhs.org
Lincoln Interactive
www.lincolninteractive.org

COURSE DESCRIPTIONS

English 9
Grade Level: 9 Credit: 1 (2 semesters)
Prerequisite: English teacher recommendation

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.

English 10: American Literature
Grade Level: 10 Credit: 1 (2 semesters)
Prerequisite: Honors English 9

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, it's 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 gain an appreciation for the written word. Writing instruction will improve students' form and coherency and will also include instruction in analytical writing.

English 11
Grade level: 11 Credit: 1 (2 semesters)
Prerequisite: 10th Grade Honors English

Topics Studied:

1. Reading: British and World Literature Anglo-Saxon to Modern) and accompanying novels.
2. Vocabulary/spelling/grammar for the college bound
3. Composition: Frequent impromptu writing/expository essays.
4. Test taking strategies.

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 a four-year university.

English 12 (World Literature)
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 and writing skills expected in college.

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.

. **Physical Education 1/Health**
Grade Level: 9 Credit: 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 Focus 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.

ADVANCED PHYSICAL EDUCATION

Grade Level: 10, 11, 12
Credit: 1 (2 semesters)
Prerequisite Physical Education I

Topics studied:

1. Lifetime sports. Recreational Sports, Team Team Sports
2. Fitness Testing, Weight Training, Exercise Training.
3. Purpose:
4. Student's exposure to a wide variety of lifetime, recreational and team sports. These include rules and terminology, emphasis on high fitness standards in strength, endurance, and flexibility.

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

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.

Drones
Goals for this Course
Students will learn about the history of drones, and how they are used recreationally as well as commercially. By the end of this course, students will know how to safely operate a number of drones (Syma, Tello, Mini3, and Mavic). Students will learn about the science and math that is an integral part of drone operations. There are numerous FAA regulations and this course will prepare students to take the "Part 107" to become a commercial drone pilot. We will incorporate numerous "real-world" projects into this course such as helping local businesses to inspect crops, structures, and buildings. We will offer free drone footage and video production to showcase local businesses.
Standards incorporated into this class –
Science
Force/Motion
Engineering

Math Standards
9-12.HSN-Q.A.1 Use units as a way to understand problems and to guide the solution of multi-step problems; choose and interpret units consistently in formulas; choose and interpret the scale and the origin in graphs and data displays.
9-12.HSN-Q.A.3 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.
9-12.HSN-VM.A.1 Recognize vector quantities as having both magnitude and direction. Represent vector quantities by directed line segments, and use appropriate symbols for vectors and their magnitudes (e.g., v, |v|, ||v||, v).
9-12.HSN-VM.B.4 Add and subtract vectors.
9-12.HSF-LE.A.1c Recognize situations in which a quantity grows or decays by a constant percent rate per unit interval relative to another.
9-12.HSF-TF.A Extend the domain of trigonometric functions using the unit circle
9-12.HSG-SRT.C Define trigonometric ratios and solve problems involving right triangles

Art 1

Grade Level: 9, 10, 11, and 12 Credit1 (2 semesters)
Prerequisite: None

Topics Studied:
1. The Elements and Principles of Art and Design
2. Aspects of a successful composition
3. Perspective and proportion
4. Color theory
5. Observational drawing techniques
6. Contemporary art trends
7. Expressing opinion, identify, and personality through art
8. The use of and processes associated with varied 2-D and 3-D media
9. Improving, drafting and critiquing a work of art

Purpose: Students in this call will experience a fun and valuable introduction to the elements and principles of design-the building blocks of assessing and understanding works of art-along with the use of perspective, proportion, and color theory. Students will develop the ability to generate a successful composition in a variety of exciting 2-D media such as graphite, ink, pen and ink, watercolor and acrylic paint, pastels, charcoal, colored pencils and more. Students will also be introduced to the techniques associated with creating Art 1n various 3-D media including polymer clay, stoneware clay, paper mache, mixed media and more.

Art 2

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

Topics Studied:

1. The Elements and Principles of Art and Design
2. Aspects of a successful composition
3. Development of familiarity with previously experienced 2-D and 3-D media
4. Contemporary art trends
5. Expressing opinion, identity, and personality through art
6. Accepting critiques and feedback
7. Improving artistic confidence, the use of the artistic process, and the ability to write about art

Purpose:

Students in this class will further explore the subject areas that they began to experience in Art 1. They will deepen their knowledge of the Elements and Principles of Design and the aspects of a successful composition, and begin to foster a personal artistic style and improve their ability to convey meaning through imagery. Art 2 students will hone their use of art-related vocabulary and gain further proficiency in giving feedback and critiquing artwork.

Portfolio Art/Contemporary Art

Grade Level: 9, 10, 11, 12 Credit 1 (2 semesters)
Prerequisite: Art 1 and Art 2, approval by the art teacher
Topics Studied:
1. Careers in Art
2. Contemporary art trends
3. Abstract/conceptual art
4. Integration of art and society
5. Collaborative art
6. In-depth portfolio assessment, creation and refinement
7. Artistic inspiration, motivation and goal-setting

Purpose:
Students who take Portfolio Art will be interested in developing a focused and individual artistic voice, and may intend to pursue art as a career or long-term hobby. Portfolio art students will create independently driving project proposals both in media they select and in media suggested by the instructor. Students enrolled in Portfolio Art will be in classes with Art 1/II students, but should plan to meet wit the instructor outside of class a minimum of once a month for goal meetings and portfolio review sessions. These students will deepen their understanding of art as a form of expression, sharpen their personality as an artist, and broaden their understanding of contemporary trends in art and the interaction of art and society.

Yearbook

Grade Level: 9-12
Credit: 1 (2 semesters)
Topics Studied:
Teamwork and Interpersonal Communication
The Creative Process
The Writing Process
Journalism
Brainstorming Themes
Theme Development
Visual Representation of Theme
Written/Conceptual Representation of Theme
Graphic Design Elements
Photography
File Organization
Typography
Revising and Editing
Purpose: This course is an introductory through advanced course of journalism (storytelling through the written word) and graphic design elements (theme, layout, repetition, balance, unity, pattern, and other relevant conventions).

Algebra 1

Grade Level: 9, 10, 11 Credit: 1 (2 semesters)
Prerequisite: Pre-Algebra

Topics Studied:
1. Relationships between Quantities
2. Reasoning with Equations and Inequalities
3. Graphing Relations and Functions
4. Linear Relationships
5. Exponents and Expressions
6. Exponential Relationships
7. Quadratic Relationships
8. Descriptive Statistics

Purpose:
The fundamental purpose of this course is to formalize and extend the mathematics that students learned in the middle grades. The critical areas deepen and extend understanding of linear and exponential relationships by contrasting them with each other. Students also learn how to apply linear models to data that exhibit a linear trend and engage in methods for analyzing, solving, and using quadratic functions. The logical reasoning which is developed in the study of algebra is essential to most areas of employment.

Algebra 2

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

Topics Studied:

1. Polynomial Relationships
2. Rational Relationships
3. Radical Relationships
4. Logarithmic and Exponential Relationships
5. Modeling of Functions
6. Trigonometric Functions
7. Inferences and Conclusions from Data
8. Sequences and Series

Purpose:
Algebra 2 is a more advanced study of Algebra and Geometry. In this course, students extend their knowledge of functions to include linear, exponential, quadratic, polynomial, rational, and radical functions. Students work closely with these functions and continue to solve equations and model situations. Students are introduced to logarithms and how they can be used to solve exponential equations. Trigonometric functions and basic trigonometric identities are also introduced. Algebra 2 is an excellent course to prepare for the study of more advanced mathematics, chemistry, and/or physics.

Geometry

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

Topics Studied:

Points, lines, and planes
Segments
Inductive reasoning
Deductive reasoning
Logic
Angles and Parallel Lines
Similar triangle and other polygons
Congruent triangles and other polygrons
Properties of Right triangles
Coordinate Geometry
Properties of polygons
Angle relationships
Vectors
Properties of Circles
Volume and Surface area of three-dimensional figures
Angle relationships
Proof
Properties of triangles
Transformations
Trigonometric functions
Area of Polygons and Circles

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.

Honors PreCalc/Trig

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

Topics Studied:

1. Functions
2. Exponential and Logarithmic Functions
3. Quadratic Functions
4. Polynomial Functions
5. Rational Functions and Difference Quotients
6. Trigonometric Functions
7. Vectors, Matrices, and Systems of Equations
8. Sequences, Series, and Mathematical Induction
9. Polar Coordinates, Parameterizations, and Conic sections

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.

Honors Calculus
Grade Level: 11, 12 Credit: 1 (2 semesters)
Prerequisite: Trigonometry/Pre-Calculus
Topics Studied:
Limits and Continuity
1. The Derivative
2. Application of Derivatives
3. The Definite Integral
4. Differential Equations and Mathematical Modeling
5. Applications of Integrals

Purpose:
This course is designed to cover one semester of college Calculus material. Our study of calculus, the mathematics of motion and change, is divided into two major topics: differential and integral calculus. Differential calculus enables us to calculate rates of change, to find the slope of a curve, and to calculate velocities and accelerations of moving bodies. Integral calculus is sued to find the area of an irregular region in a plane, to measure lengths of curves, and to calculate centers of mass of arbitrary solids. It is important to note that this course if fast paced and designed to be at a college level. Anyone wishing to take this course should be prepared to work hard and spend a lot of time studying, outside of class, in order to do well. Students will be expected to read the text and supplemental materials outside of class. Students enrolled in AP Calculus may also take the AP Calculus exam in May.

Physical Science
Grade Level: 9 Credit: 1 (2 semesters)
Prerequisite: None

Topics Studied:

1. Measurements and the scientific inquiry
2. Matter and States of Matter
3. Atoms and the Structure of Matter
4. The Periodic Table
5. Chemical Reactions
6. Solutions, Acids, Bases, and Salts
7. Nuclear Changes
8. Motion and Forces
9. Work and Energy
10. Heath and Temperature
11. Waves, Sound, and Light
12. Electricity and Magnetism

Purpose:

This course is an introductory course of chemistry (properties and interaction of matter) and physics (motion, forces, energy, sound and light).

Biology
Grade level: 10 Credit: 1 (2 semesters)

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.

Chemistry
Grade Level: 10, 11, 12 Credit: 1 (2 semesters)
Prerequisite: Biology (recommended but not required) - 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. Nuclear Chemistry
12. Hydrocarbons and organic compounds

Purpose:

Extensive course work will be spent in problem solving activities and group work.

Physics
Grade Level: 11, 12 Credit: 1 (2 semesters)
Prerequisite: Algebra 2 recommended

Topics Studies:

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

Purpose:

Physics studies matter and energy in our universe. Problem solving is stressed with algebra and trig used for some solutions. Extensive course work will be spent in problem solving activities and group work. Physics is recommended for all students planning on attending college.

Anatomy/Physiology

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

Topics Studied:

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

Purpose:

Physics studies matter and energy in our universe. Problem solving is stressed with algebra and trig used for some solutions. Extensive course work will be spent in problem solving activities and group work. Physics is recommended for all students planning on attending college.

World History
Grade Level: 9 Credit: 1 (2 semesters)
Prerequisite: None

Topics studied:
1. Foundations in World History & Geography
   a. World Historical & Geographical Concepts & Maps
   b. Systems of Human Organization
   c. Growth & Development of World Religions
   d. Regional Interactions
2. Expanding Hemispheric Interactions: 300-1500A.D.
3. The Emergence of the First Global Age: 15th to 18th Centuries
4. An Age of Global Revolutions: 18th Century – 1914
5. Global Crisis and Achievement: 1900-1945
6. The Cole Ward & its Aftermath: The 20th Century Since 1945

Purpose:
This course provides an overview of World History from Egyptian civilization to modern times with emphasis on European, Asian & African history. Concepts and facts are interwoven to give students a clear observation of historical events and why they helped shaped the modern day world. Current events are also part of this study.

U.S. History
Grade Level: 10 Credit: 1 (2 semesters)

Prerequisite: None

Topics Studied:

1. Review of the nations development from the beginnings up to 1877
2. Era 6 Development of Industrial, urban, and Global United States (1870-1930)
3. Era 7 Great Depression and World War (((1920-1945)
4. Era 8 Post World Ward II United States (1945-1989)
5. Era 9 America in a New Global Abe (1989 to present)

Purpose:
To enable students to gain a better understanding and appreciation of their nation along with understanding the complex events and dynamics that have shaped the country that they will inherit.

United State Government & Economics

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

Prerequisite: None

Semester 1 – Government – Topics Studied:

1. Conceptual Foundations of Civic and Political Life.
2. Origins and Foundations of Government of the United States
3. Structure and Functions of Government in the United States
4. The United States and World Affairs (U.S. Foreign Policy & International Affairs)
5. Citizenship in the United States (Public Policy/Issues)
7. Current Events/Affairs

Semester 2 – Economics – Topics Studies

1. The Market Economy (Scarcity, Opportunity Cost, Comparative Advantage, Competitive Markets, Supply & Demand, and Role of Government)
2. The National Economy of the United States (Income, Circular Flow, Money Supply, Inflation, Recession, GDP, & Economic Indicators)
3. The International Economy (Economic Systems, Developing Nations, International Organizations/World Economy, GDP & Standard of Living, Economic Interdependence/Trade)
4. Personal Finance (Decision Making, Personal Finance & Investing, Risk Management)
5. Current Events/Affairs

Purpose:

Government/Economics provides a basic knowledge of the structure and function of the United States political and economic system. Knowledge of government promotes an individual's ability to function responsibly as a citizen, as well as increase his/her awareness of the world. Understanding economics is essential for citizens in our national and increasingly interconnected world economy.

Business Management 1 & 2

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:

This course provides students with a solid foundation of business skills, knowledge and understanding that are necessary for success in a global society. Topics include human resources, operations and quality management, communications, business management and leadership, project management, business ethics, international business, employability skills, career exploration and more.

Students will utilize information technology and software applications to complete business projects and share ideas. Students will learn to solve business problems that occur in the working environment. This exciting business class prepares students for employment and for the pursuit of a business degree after high school.

**Potential for articulated credits with Baker College, Davenport University, Ferris State University and Kalamazoo Valley Community College.* 4th Related Math Credit and Visual Performing & Applied Arts Credit*

Accounting/Finance 1

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

Topics Studied:

Starting a Proprietorship
General ledger
Cash Control
Owner's Equity
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 articulated credits with Baker College, Davenport University and Kalamazoo Valley Community College.* 4th Related Math Credit*

EARLY/MIDDLE COLLEGE

Kalamazoo County Early/Middle College (EMC) Program Overview

The EMC program is an opportunity for students to earn an associate's degree or certificate along with their high school diploma. Students are enrolled in a focused program of study at Kalamazoo Valley Community College. Students have an additional 13th year of high school for program completion. The local school district pays the tuition and fees up to an allocated amount.

The EMC program is structured so that students gradually increase their exposure to college courses over a five-year span. Initially (9th/10th grades) the bulk of the students' schedule will be comprised of traditional high school classes. As the student progresses through their educational plan, they will be exposed to more and more college courses. By the time they reach the 13th grade (or 5th year), all of their coursework will be on-site at Kalamazoo Valley Community College.

Students who participate in EMC also receive support services to assist them in their transition from high school to college. All EMC students take a College Success Strategies Course in 10th grade to enhance their academic preparation skills, study skill development and social maturity skills. All EMC students have a mentor that they meet with regularly. Students will be able to save both time and money as they pursue a college degree, and they will have access to support services designed to enhance their success as they work towards achieving their educational goals.

Students may elect to participate in one of the following programs:

Degrees in Associate of Applied Science (AAS)

AAS degrees are occupational in orientation and are designed to prepare graduates for immediate employment. They require successful completion of a minimum of 62 credit hours.

AAS Options

Accounting
Administrative Assistant
Automotive Undercar Systems
Business Administration
Culinary Arts and Sustainable Food Systems
Emergency Medical Services
General Marketing
Graphic Design
IT Support Technician
Machine Tool Technology

Certificates (CERT)

Certificate programs prepare graduates for a specialized occupation. They require successful completion of 30 credits hours or more.

CERT Options

Administrative Support
Culinary Arts and Sustainable Food Systems
General Automotive Service
Graphic Design
Machinist
Office Management

Certificates of Achievement (COA)

Certificate of Achievement programs requires fewer courses than a regular certificate program providing training in a specific set of skills for employment in a specific occupation. They require successful completion of more than 3 but less than 30 hours of credit.

Kalamazoo County Early/Middle College (EMC) Program Overview

COA Options

Auto Brake Systems
Auto Steering & Suspension
CNC Operator
Desk Side Support
Dietary Manager
Emergency Medical Technology-Basic
Machine Tool Operator
Network Manager
Office Support Specialist
PC Support Technician
Software Specialist
Welding Constant Current (CC) Processes
Welding Constant Voltage (CV) Processes
Word Processing Specialist

Transfer Degrees in Associate of Arts (AA) or Associate of Science (AS)

AA or AS degrees are for students planning to transfer to a four-year university. They require successful completion of a minimum of 62 credit hours.

The options listed below transfer to WMU. If you are considering another four-year university, please discuss this with the EMC Coordinator and a KVCC Counselor to see if a transfer agreement is in place for your program of interest. If you are planning to go to a four-year university out of state, the Early/Middle College program may not be in your best interest due to transferability of coursework.

AA Options

Business Administration
Computer Information Systems
Criminal Justice
Elementary Education
Secondary Education "Students will follow the degree plan for the subject area they want to teach."
Social Work
Studio Art

AS Options

Aviation Tech
Biological Sciences
Computer Science
Engineering

The application packet and other information can be found on the Kalamazoo County EMC website www.kresa.org/emc.

ON-LINE VIRTUAL COURSES

Michigan Virtual High School Course List

ENGLISH LANGUAGE ARTS

AP English Language & Composition (Sem 1)*
AP English Language & Composition (Sem 2)*
AP English Literature & Composition (Sem 1)*
AP English Literature & Composition (Sem 2)*
Composition (Advanced)*
Composition (Beginning)*
EdReady English (Grades 8-9)
EdReady English (Grades 10-12)
English 9A*
English 9B*
English 10A*
English 10B*
American Literature A (English 11-12)*
American Literature B (English 11-12)*
British Literature A (English 11-12)*
British Literature B (English 11-12)*
Journalism (Introduction)*
Journalism (Advanced)*
Mythology & Folklore: Legendary Tales
Reading for College Success
World Literature*

MATHEMATICS

Algebra 1A*
Algebra 1B*
Algebra 2A*
Algebra 2B*
AP Physics C (Sem 2)*
Astronomy*
Bioethics
Biology A*
Biology B*
Chemistry A*
Chemistry B*
Earth Science A*
Earth Science B*
Environmental Science A*
Environmental Science B*
Forensic Science*
Oceanography A*
Oceanography B*
Physical Science A*
Physical Science B*
Physics A*
Physics B*
Veterinary Science: The Care of Animals

SOCIAL STUDIES

Anthropology (Introduction)*
AP Human Geography (Sem 1)*
AP Human Geography (Sem 2)*
AP Macroeconomics*
AP Microeconomics*
AP Psychology (Sem 1)*
AP Psychology (Sem 2)*
AP U.S. Government & Politics*
AP U.S. History (Sem 1)*
AP U.S. History (Sem 2)*
AP Calculus AB (Sem 1)*
AP Calculus AB (Sem 2)*
AP Calculus BC (Sem 1)*
AP Calculus BC (Sem 2)*
AP Statistics (Sem 1)*
AP Statistics (Sem 2)*
Calculus A*
Calculus B*
EdReady Math (Grades 9-1
Geometry A*
Geometry B*
Mathematics of Baseball
Mathematics of Personal Finance
Probability & Statistics A*
Probability & Statistics B*
Trigonometry*

SCIENCE

Anatomy & Physiology A*
Anatomy & Physiology B*
AP Biology (Sem 1)*
AP Biology (Sem 2)*
AP Chemistry (Sem 1)*
AP Chemistry (Sem 2)*
AP Environmental Science (Sem 1)*
AP Environmental Science (Sem 2)*
AP Physics 1 (Sem 1)*
AP Physics 1 (Sem 2)*
AP Physics 2 (Sem 1)*
AP Physics 2 (Sem 2)*
AP Physics C (Sem 1)*

Archaeology: Detectives of the Past
Civics*
Criminology
Economics*
Economics of Personal Finance
Leadership Skills Development
Native American History*
Philosophy: The Big Picture
Psychology*
Sociology I - Intro to Sociology*
Sociology II - Social Problems*
U.S. History & Geography A*
U.S. History & Geography B*
World History A*
World History B*
World Religions: Exploring Diversity

WORLD LANGUAGES

American Sign Language 1A*
American Sign Language 1B*
American Sign Language 2A*
American Sign Language 2B*
AP Chinese (Sem 1)*
AP Chinese (Sem 2)*
AP French (Sem 1)*
AP French (Sem 2)*
AP Spanish (Sem 1)*
AP Spanish (Sem 2)*
Chinese 1A*
Chinese 1B*
Chinese 2A*
Chinese 2B*
Chinese 3A*
Chinese 3B*
Chinese 4A*
Chinese 4B*
French 1A*
French 1B*
French 2A*
French 2B*
French 3A*
French 3B*
German 1A*
German 1B*
German 2A*
German 2B*
Japanese 1A*
Japanese 1B*
Japanese 2A*
Japanese 2B*
Latin 1A*
Latin 1B*
Latin 2A*
Latin 2B*
Spanish 1A*
Spanish 1B*
Spanish 2A*
Spanish 2B*
Spanish 3A*
Spanish 3B*
Spanish 4A*
Spanish 4B*

ELECTIVES

Accounting A
Accounting B
Advanced Programming: Game Design and Animation
Advanced Web Design: JavaScript
AP Art History (Sem 1)
AP Art History (Sem 2)
AP Computer Science A: Java (Sem 1)*
AP Computer Science A: Java (Sem 2)*
AP Computer Science Principles (Sem 1)
AP Computer Science Principles

(Sem 2)
Basic Web Design: HTML & CSS
Business Ethics
Career Planning
Careers - Find Your Future
Digital Information Technology A
Digital Information Technology B
Digital Photography
Employability Skills
Entrepreneurship
Film Studies: American Film Survey
Foundations of Programming (Sem 1)
Foundations of Programming (Sem 2)
Guitar 1A
Guitar 1B
Health Education
Health Education (Abstinence Only)

Hospitality & Tourism: Traveling the Globe
Introduction to Java
JavaScript Game Design
Java Programming A
Java Programming B
Medical Terminology
Music Appreciation Odyssey
Personal Fitness
Procedural Programming
Social Media
Sports & Entertainment Marketing
Study Skills
Visual Art Comprehension I

PINCKNEY CYBER TRAINING INSTITUTE

Networking & Cybersecurity Essentials
CISCO Certified Network Associate (CCNA) 1
CISCO Certified Network Associate (CCNA) 2
Linux Essentials
Linux Operating System 1
Linux Operating System 2

Course Descriptions can be found at:

www.mivhs.org

Lincoln Interactive Online

1960's America
A World of Short Stories
Advanced Biology
Advanced Calculus
Advanced English Literature
Advanced French
Advanced Spanish
African American History
African American Literature
Algebra 2
American History
American Literature
Ancient History
Applied Math
Art and Music Exploration
Art History
Arts Alive
Astronomy
Basic Microsoft Office Skills
Biology
British Literature
Business Math
Calculus
Career Exploration
CES: Applied Engineering
CES: Biofuels: Algae, Fungi and other Surprises
CES: Biotechnology
CES Creative and Critical Thinking
CES Emerging Genetics
CES Energy Climate Change, and Biodiversity
CES Engineering Land Speed Vehicles
CES Epidemiology
CES Forensic Science
CES Introduction to Energy Series
CES New Solar Technologies
CES Sports Medicine
CES Stem Cell Research
CES Transportation of the Future
Changing Language
Chemistry
Chinese
Cinematic Review
Civics
Classical Mythology
Computer Aided Drawing and Design
Consumer Mathematics
Creative Writing
Criminal and Consumer Law
Discovering Digital Photography
Drawing includes
Earth Science
Economics
English 10
English 9
Environmental Science
Essentials of English Usage
Exploring German
Exploring Keyboarding
Exploring Spanish
Family and Consumer Sciences
Fashion and Design
French 1
French 2
French 3
Fundamentals of Ecology
Fundamentals of Law
General Biology
Geometry
German 1
German 2
Global Mythology
Government
Graphic Design
Health
Interactive Game Design
Intermediate Web Design
Introduction to Business
Introduction to College Writing
Introduction to Computer Programming
Introduction to Law
Introduction to Mass Media
Introduction to Music Theory
Introduction to Office Application
Introduction to Physics
Introduction to Screenwriting
Introduction to Short Stories
Introduction to Web Design
Latin 1 Part 1
Latin 2 Part 1
Life Skills
Marketing/Advertising
Money Management
Mystery and Science Fiction
Personal Fitness
Physical Science
Physics
Practical Math
Pre-Algebra
Pre-Calculus
Psychology
Road to Wellness
Sociology
Spanish 1
Spanish 2
Spanish 3
Sports Media and Broadcasting
Starting on the Road to Wellness
Technical Writing
The History and Development of Jazz
The Study of Contemporary Music
Theater
Trigonometry
Western Heritage
World Cultures
World Geography
World History
World Religions

KRESA CAREER & TECHNICAL EDUCATION (CTE) (FORMERLY EDUCATION FOR EMPLOYMENT EFE)

KRESA (KALAMAZOO RESA) Career and Technical Education (CTE) 2023-24 Course Descriptions

ARTS AND COMMUNICATION CAREER PATHWAY

Art & Design Career Skills

This course allows students to explore and perfect skills in various art media, use professional quality art materials, work on Macintosh computers and tablets, and learn the Adobe Creative Suite programs including Photoshop, Illustrator, and InDesign. Students will attend trips to art exhibitions and performances, design firms and school of art tours. Students will research various post-secondary programs and careers in commercial art and design, which may include animation, digital art, fashion design, graphic design, interior design, photography, printmaking, visual art and more. Designers working in the industry, as well as representatives from post-secondary institutions will visit the classroom to consult with students. Students will create a resume, assemble a professional portfolio, and attend a portfolio review in preparation for college admissions and internships.

This class may be taken for multiple years.

**Potential for articulated credits with Davenport University, Ferris State University, Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math*
**Visual Performing & Applied Arts Credit*
This is an Early/Middle College eligible program.

Media Production

This course is ideal for students who want to learn how to create media content using visual, audio, graphic and storytelling production techniques for internet, podcasting, television, and film. Students will gain work experience in such skills as video editing, audio production, video composition, graphic design, effective communication and more. This class provides students with the opportunity to enter local and national competitions as well as airing student work on Public Media Network stations.

**Potential for articulated credits with Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*
**Visual Performing & Applied Arts Credit*

KRESA Career and Technical Education (CTE)
2023-24 Course Descriptions

BUSINESS MANAGEMENT, MARKETING & TECHNOLOGY PATHWAY

Basic Accounting/Accounting I

This course provides students with basic recordkeeping skills for small businesses. Using both manual and computerized methods, students start accounting systems, record business transactions for sole proprietorships and partnerships, and practice petty cash and payroll procedures.

**Potential for articulated credits with Baker College, Davenport University, Ferris State University, Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*
This is an Early/Middle College eligible program.

Advanced Accounting/Accounting II

Students who enroll in the second year become proficient in computerized systems, advanced application, analysis, and financial decision making. Competencies include departmentalized accounting procedures, completing payroll, budgeting, and financial analysis.

**Potential for articulated credits with Baker College, Davenport University, Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*
This is an Early/Middle College eligible program.

AP (Advanced Placement) Computer Science Principles

AP Computer Science Principles is an introductory college-level computing course. Students cultivate their understanding of computer science through working with data, collaborating to solve problems, and developing computer programs as they explore concepts like creativity, abstraction, data and information, algorithms, programming, the internet, and the global impact of computing.

**Potential for articulated credits not yet developed*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*

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.

**Potential for articulated credits with Davenport University*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*

Business Administration Management & Operations (BMA)

This course provides students with a solid foundation of business skills, knowledge and understanding that are necessary for success in a global society. Topics include human resources, operations and quality management, communications, business management and leadership, project management, business ethics, international business, employability skills, career exploration and more. Students will utilize information technology and software applications to complete business projects and share ideas. Students will learn to solve business problems that occur in the working environment. This exciting business class prepares students for employment and for the pursuit of a business degree after high school.

**Potential for articulated credits with Baker College, Davenport University, Ferris State University, Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit,*
**Visual Performing & Applied Arts Credit*
This is an Early/Middle College eligible program.
Credential options: MS Excel, MS Powerpoint, MS Word, Communication Skills for Business, Entrepreneurship and Small Business

Computer Science/Software Engineering

Computer Science Software Engineering provides an excellent introduction into the computer science world. In this course, students dive into the world of programming using Python; edit images using GIMP (Graphic Image Manipulation Program), create a short film; and learn the importance of file management using Linux Ubuntu Virtual Environment. Students will also use professional-level IT (Info Tech) applications such as Git Hub and Python Integrated Development Environments (IDE) and even program and drive drones and robots using Software Development Kits and Arduino Microprocessors. Students will learn the impact of a computing society and the application of computing across career paths.

**Potential for articulated credits with Baker College, Davenport University, Ferris State Univeristy, Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*
Credential options: C++, PC Pro, Java Script, Python and more depending on student interest.

Culinary Arts

This program provides students with the opportunity to learn about the restaurant and food service industry. The curriculum, ProStart, was created by the National Restaurant Association and complies with all State standards. Students learn basic food preparation and explore different fields of the culinary trade. Instruction and learning activities are provided in a food lab using hands on experiences. The curriculum includes, but is not limited to, front-of-the-house duties, as well as back-of-the-house duties. Additional activities provide instruction in a wide range of topics from management and employability skills to catering. Students participate in culinary competitions and acquire industry recognized certifications needed to succeed in the industry and post-secondary education.

**Potential for articulated credits with Baker College, Davenport University, Ferris State University, Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*
**Visual Performing & Applied Arts Credit*
This is an Early/Middle College eligible program.
Credential options: ServSafe Allergen, Handler, and Manager

Information Technology I

Students enrolled in this program will be exposed to numerous Information Technology specialty areas. Students will learn about hardware, Windows and Linux operating systems, printers, scripting, networking, security, and troubleshooting. Students that excel at the content can take electives to earn additional credentials in Amazon Web Services (AWS) or EC-Council's Digital Forensic Essentials.

**Potential for articulated credits with Baker College, Davenport University, Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*
This is an Early/Middle College eligible program.
Credential options: IT Fundamentals and CompTIA Network+

Information Technology II

Students returning for second year of Information Technology will take a deeper dive into opportunities, work semi-independently and focus on one or more of following areas of IT: networking, cybersecurity, servers, or Linux.

Networking: Before you can secure a network, you need to understand how it works. Topics include Switching & Routing, Network Address & Services, Specialized Networking, Hardening & Update management, Wide Area Network, Optimization & Troubleshooting.

Cybersecurity: Once a student understands how a network works it can be secured. Topics include: threats, attacks & vulnerabilities; identity, access, & account management; incident response; forensics & recovery; virtualization; cloud & Mobile Devices, and more.

Servers: The course is designed to prove proficiency in the skills required to administer Windows Server, including installation and implementation of storage solutions, Hyper-V, and Windows containers; networking with DNS, DHCP, IP address management, and advanced infrastructure; and administration of Active Directory Domain Services, group policy, Nano Server, and more.

Linux: Linux is everything from cars and smartphones to servers and supercomputers, as a vast number of enterprises use Linux in cloud, cybersecurity, mobile and web administration applications.

**Potential for articulated credits with Baker College, Davenport University, Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*
This is an Early/Middle College eligible program.
Credential Options: CompTIA Network+, Cisco CCNA, CompTIA Security+, EC-Council's Network Defense

Marketing/Entrepreneurship

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 that businesses and organizations use to persuade consumers to buy products or use services. Students will learn about types of social media and the social media strategies businesses utilize to meet their marketing goals. 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, Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit,*
**Visual Performing & Applied Arts Credit*
This is an Early/Middle College eligible program.

KRESA Career and Technical Education (CTE)
2023-24 Course Descriptions

ENGINEERING, MANUFACTURING, INDUSTRIAL TRADES PATHWAY

Automotive Technology

This National Institute for Automotive Service Excellence (ASE) certified program covers these areas of automotive service: engine, brakes, electrical & electrical systems, steering & suspension, auto & manual transmissions, and air conditioning. Students may have the opportunity to become state certified, as well as to earn credit towards 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, Kalamazoo Valley Community College, University of Northwest Ohio*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*
**Algebra II Credit option*
This is an Early/Middle College eligible program.
Credential options: Automotive Service Excellence (ASE) Entry-Level Maintenance and Light Repair (MLR), ASE Entry-Level Brakes, ASE Entry-Level Steering and Suspension

Aviation Technology

Students in this course are dually enrolled and can earn college credit through Kellogg Community College (KCC) in addition to high school credit. The KCC aviation coursework is part of a bridge agreement with Western Michigan University, College of Aviation and is delivered as on-line courses. Instructional support is provided by CTE to ensure student success at the college level. This program is designed to introduce students to many aspects of the aviation industry and is intended for students with an interest in pursuing any career related to aviation. Students will develop a broad knowledge base in subject areas ranging from evolution of airplanes and commercial aviation, flight operations, weather, airspace, navigation, regulations, and aircraft systems. Students can interact with industry experts and visit leaders in the field of aviation for career exploration. The program will feature many hands-on labs.

Students may take this course for two years.

**Potential for articulated credits with Northwestern Michigan College*
**Dual Enrollment at Kellogg Community College with bridge agreement to WMU-College of Aviation*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*

Computerized Manufacturing

This course provides training in computer-aided design and computer manufacturing systems using CAD software, SolidWorks, Mastercam and KeyCreator. It also features demonstrations and maximizes student laboratory work. Students gain employability skills such as planning, organizing and decision-making skills. Paid work-based learning opportunities with local manufacturers are available to second-year students. Computerized Manufacturing 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 Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*
**Visual Performing & Applied Arts Credit*
This is an Early/Middle College eligible program.

Construction Trades

This course exposes students to many aspects of the new construction and revitalization industry including site layout, carpentry, electrical, masonry, plumbing, tile setting, HVAC, painting, and other construction skill areas. Both male and female students will enjoy the hands-on training experience in remodeling and/or new construction of a home that this course has to offer. Classroom training is also a vital component of the class. 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 Baker College, Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*
**Visual Performing & Applied Arts Credit*
Credential option: United Brotherhood Career Connections

Electrical Technology

Students in this course are dually enrolled and can earn college credit through Kalamazoo Valley Community College. Students will need to meet the college's entrance expectations, as well as having their schedule open to extended class times and the college's calendar. 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 algebraic concepts.

**Dual enrollment at Kalamazoo Valley Community College - 6 College Credits*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*

Electronics & 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 solid 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, Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*
**Visual Performing & Applied Arts Credit*

Engineering in Wood Technology

Engineering in Wood Technology is a course that covers the rudimentary techniques of woodworking and cabinetmaking in relation to industry. This class provides true differentiated training for the real-world of manufacturing and industry, with student directed studies ranging from areas of programming and operation of CNCs, laser engraving and even 3D printing technologies to rustic woodworking using traditional tools such as Japanese pull saws. This course offers higher-level training in management and student leadership via a complex student-run student-led class structure. Students will have the opportunity to explore career paths related to the woodworking and construction industries

**Potential for articulated credits with Michigan Career & Technical Institute*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*
**Visual Performing & Applied Arts Credit*

Heating, Ventilation & Air Conditioning

Students in this course are dually enrolled and can earn KVCC college credit in addition to high school credit. Students will need to meet the college's entrance expectations, as well as having their schedule open to extended class times and the college's calendar. 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.

**Dual Enrollment at Kalamazoo Valley Community College - 12 College Credits*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*

Mechatronics

Electronics and mechanical components work together to make up complex systems from a car to a robot to automation lines. Mechatronics students learn to design, build, program, and troubleshoot electro-mechanical systems using the principles of mechanics, electronics, and computer science. Students learn about electronics, robotics, equipment controls and sensors, programming, hydraulics/pneumatics, CAD/CAM, basic machining, and CNC.

**Potential for articulated credits with Baker College*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*
**Visual Performing & Applied Arts Credit*

Welding

Students in this course are dually enrolled and can earn college credit from Kalamazoo Valley Community College in addition to high school credit. Students will need to meet the college's entrance expectations, as well as having their schedule open to extended class times and the college's calendar. 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.

**Dual Enrollment at Kalamazoo Valley Community College - 6 College Credits*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*
**Visual Performing & Applied Arts Credit*
This is an Early/Middle College eligible program.

KRESA Career and Technical Education (CTE) 2023-24 Course Descriptions

HEALTH SCIENCES PATHWAY

Certified Nursing Assistant (CNA)

Learn to care for patients in a caring and compassionate manner. Students first learn patient care techniques in a simulated lab environment, followed by a clinical rotation at a long-term care facility. This program is designed to introduce students to the fundamentals of health care, core skills, and health care professional behavior. Upon completion of the program, students are offered study and practice sessions to prepare for the state of Michigan competency exam. Once prepared, students will take the Michigan Nurse Aide Competency Evaluation which includes skills and knowledge tests.

**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*
Credential option:CNA certificate

Dental Assisting

Students choosing this program will be dually enrolled through Kalamazoo Valley Community College (KVCC) and can earn both high school and college credit for the course. Students will need to meet the college's entrance expectations, as well as having their schedule open to extended class times and the college's calendar. Enrollment in the CTE Dental Assisting program begins a preferred relationship with the KVCC Dental Hygiene program that could later benefit a student's acceptance into the KVCC program. The course prepares students to become dental assistants. Students will learn the fundamental knowledge and skills of dental anatomy, physiology, terminology, dental materials, chairside assisting, sterilization, radiology, laboratory, and clinical procedures. Second semester incorporates an internship held in KVCC's Dental clinic and local dental offices.

**Dual enrollment at Kalamazoo Valley Community College - 7 college credits*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*
Credential options: American Heart Association Safety, First Aid and Basic Life Support (BLS), radiography certification

Emergency Medical Technician

Students in this class are dually enrolled and can earn both high school and college credit. Students will need to meet the college's entrance expectations, as well as having their schedule open to extended class times and the college's calendar. EMT (Emergency Medical Technician) consists of a sequence of KVCC courses. Each course is a pre-requisite to the next course. Basic EMT 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. The course involves lecture and practical skills labs and introduces the clinical component of EMT education, the minimum level of training required for work on a transporting ambulance. Second semester students will complete clinical hours with a local ambulance service and healthcare agencies.

**Dual enrollment at Kalamazoo Valley Community College - 10 college credits*
**2nd World Language Credit*
**4th Related Math Credit*
**3rd Science Credit*
This is an Early/Middle College eligible program.
Credential options: Medical First Reponder (MFR) and Basic EMT

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 should enjoy working at a fast pace and be considering a healthcare career requiring a minimum of four years of post-secondary education.

**Embedded dual enrollment credit at Kalamazoo Valley Community College*
**Potential for articulated credits with Baker College, Davenport University, Ferris State University, Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*
Credential options: Basic Life Support (BLS)

Professional Health Science

Professional Health Science provides advanced training and experience in the healthcare field. The course includes internship experiences and enrollment in advanced skill mini courses such as phlebotomy, electrocardiography, patient care assistance, and exercise science/sports medicine. Students successfully completing medical terminology instruction will receive 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.

**Embedded dual enrollment credit at Kalamazoo Valley Community College*
**Potential for articulated credits with Baker College, Davenport University, Ferris State University, Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*
Credential option: Certified Patient Care Technician (CPCT)

KRESA Career and Technical Education

(CTE) 2023-24 Course Descriptions

HUMAN SERVICES 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. 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. Students not meeting this requirement during their CTE enrollment will need to complete the program at their own expense. Upon successful completion of this prerequisite, students will be prepared to take their Michigan State Board Exam.

Cosmetology/Barbering Licensure
**Potential for articulated credits with Davenport University, Ferris State University*
**2nd World Language Credit*
**3rd Science Credit*
**Visual Performing & Applied Arts Credit*
**4th Related Math Credit*
Credential options: State of Michigan Cosmetology or Barbering Licensure

Law Enforcement I

Law Enforcement I introduces students to the many different careers available within the field. The program emphasizes the knowledge, skills, and ethics needed to be a successful police/fire academy recruit. Areas of study include criminal law, patrol procedures, fire ground operations, first aid/CPR/AED certifications, defensive tactics, crime scene investigation, and oral & written communication skills. The program follows MCOLES (Michigan Comission on Law Enforcement Standards) and police academy standards, as well as current college curriculum.

**Potential for articulated credits with Baker College, Davenport University, Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*

Law Enforcement II

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, applying the knowledge, skills, and ethics learned to real world situations.

**Potential for articulated credits with Baker College, Davenport University, Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*

Teacher Academy

Discover the rewards and joys of teaching! The Teacher Academy is designed to introduce students to various careers in the field of education. Students will gain hands-on experience working in a pre-kindergarten, elementary or middle school classroom four days per week throughout the school year. In addition, students will learn the necessary background knowledge of child development and principles of effective teaching through a hybrid program of learning which includes weekly online learning, class meetings, extended research projects, field trips, and interviews Students work under the joint direction of an CTE instructor and an expert teacher in their area of interest as they learn to plan and direct instruction for individuals and groups, develop materials, assist with record keeping and complete other responsibilities of teachers and other school personnel.

Students may take this course for one or two years

**Potential for articulated credits with Baker College, Central Michigan University, Ferris State University, Saginaw Valley State University, Western Michigan University*
**2nd World Language Credit*
**3rd Science Credit*
**Visual Performing & Applied Arts Credit*
**4th Related Math Credit*
Credential option: Child Development Associate (CDA)

KRESA Career and Technical Education (CTE) 2023-24 Course Descriptions

NATURAL/AGRI-SCIENCE PATHWAY

Agriscience: Animals and Plants

Interested in growing plants? Want to know about and do more with animals? Interested in natural resources? This is a year-long, hands-on course that allows you to do it all. One semester is spent learning about plants: how to grow them, how they work, and how they feed the world. Students learn about plants and their relationship and importance to people. Students also study plant classification, cell structure, plant parts and functions, plant processes, plant nutrition and soils. The other semester is based upon animals--all kinds of animals. Students learn about basic biology, behavior, care, and handling of a broad range of species. Students study domestic livestock production, animal health and nutrition, animal genetics and reproduction, and animal anatomy and physiology. Students study the selection, breeding, feeding, care, and marketing of animals, as well as the role of pets and other animals and their interactions with humans.

**Potential for articulated credits with Davenport University*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*

Conservation Biology

This program introduces students to the exciting careers in Natural Resource Conservation and Wildlife Biology. This laboratory/field-based course involves hands-on learning of ecological science, animal, and plant studies (i.e. behavior, identification), job shadowing and field trips. This course will have special emphasis on skills and technology used in this profession. Students will have direct contact with natural resource conservationists and wildlife biologists in this field of study. They will attain the skills necessary to obtain employment in various careers in Natural Resource Conservation and Wildlife Biology.

**Potential for articulated credits with Davenport University*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*

Horticulture

Do you like to grow plants? Want to try your hand at it? This year-long class allows students to explore plant biology and classification, plant nutrition, soil quality, water quality and many other plant-related questions. Projects include landscape design, experimenting with soil types, pest control, and managing all facets of an entrepreneurial spring plant sale to cap off the year. Students will discuss the horticulture and landscaping industry (greenhouse, ornamental horticulture, hydroponics, etc.) and its importance to our economy. Students work in the greenhouse, school garden, and local food forest, and grow plants for themselves and for sale.

**Potential for articulated credits with Kalamazoo Valley Community College*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*

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 internships in local veterinary clinics. This program will introduce students to and help prepare students for various jobs in the field of veterinary medicine.

**Potential for articulated credits with Davenport University, Michigan State University*
**2nd World Language Credit*
**3rd Science Credit*
**4th Related Math Credit*
Credential option: Certified Veterinary Assistant (CVA) Texas Veterinary Medical Association

KRESA Career and Technical Education (CTE) 2023-24 Course Descriptions

WORK-BASED LEARNING

CTE Work-Based Learning

An experience for 11th and 12th grade students who have successfully completed a trimester or semester of a CTE course. Students can earn credit and receive a grade while they learn through paid, related work experience.

Participating students shall:

- Be employed in a coordinator-approved work setting
- Work at least 10-15 hours per week in class-related, legal employment
- Receive release time from school, school credit, on-the-job training and pay
- Be evaluated every grading period by their employer.

Prerequisite: CTE-related class. Successful completion of one trimester or semester of a CTE course and continued concurrent enrollment in CTE.

NOTE: Students are not to be officially enrolled in CTE Work-Based Learning until the Work-Based Learning 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.

Kalamazoo Countywide Career and Technical Education Courses (CTE)
for Merit Academic Credit 2023-2024

Completion of any state-approved CTE program allows a student to substitute:

- **4th Related Math** (All CTE courses approved for 4th related math credit by Kalamazoo County Curriculum Coordinators starting in 2022-23.)
- **3rd Science Credit** (regardless of content)
- **One World Language Credit**
- Some CTE programs also allow for **Visual, Performing & Applied Arts** (see 3rd column below).

Completion means 2 full semesters except for those programs highlighted in **red** below which take 4 full semesters.

*For a completer of in-house trimester programs– see instructor. One trimester does **not** indicate a completed program.

Arts and Communications Pathway	**Site**	**Visual, Performing & Applied Arts**
Art and Design Career Skills	Kalamazoo Central High School	Yes
Media Production	Public Media Network/Epic Center	Yes
Business, Management, Marketing and Technology Pathway	**Site**	**Visual, Performing & Applied Arts**
Accounting/Finance	Climax-Scotts, Galesburg-Augusta, *Gull Lake, *Kalamazoo Central, *Loy Norrix, Portage Central, Portage Northern, Schoolcraft, Vicksburg	
Banking & Finance	Galesburg-Augusta	
Business Administration, Management & Operations (Course names vary according to school districts)	Climax-Scotts, Galesburg-Augusta, *Gull Lake, *Kalamazoo Central, *Loy Norrix, *Parchment, Schoolcraft	Yes
Computer Science Software Engineering	Gull Lake	
Computer Science Principles (AP)	Vicksburg	
Culinary Arts	KVCC Culinary & Allied Health Campus	Yes
Information Technology	Loy Norrix	Yes
Marketing/Entrepreneurship	Climax-Scotts, Galesburg-Augusta, *Gull Lake, *Kalamazoo Central, *Parchment, Portage Central, Portage Northern, Vicksburg	Yes
Web Design/Graphics	*Gull Lake, Portage Northern	Yes
Engineering, Manufacturing, Industrial Technology Pathway	**Site**	**Visual, Performing & Applied Arts**
Automotive Technology	Comstock, Loy Norrix	
Aviation Technology	Kalamazoo Air Zoo	
Computerized Manufacturing	Vicksburg	Yes
Construction Trades	Loy Norrix and construction site	Yes
Electronics & Robotics	Kalamazoo Central	Yes
Engineering in Wood Technology	Portage Northern	Yes
Mechatronics	Vicksburg	Yes
Welding	KVCC-Texas Township Campus	Yes
Health Sciences Pathway	**Site**	**Visual, Performing & Applied Arts**
Certified Nursing Assistant (CNA)	KVCC-Groves Campus	
Dental Assisting	KVCC-Texas Township Campus	
Emergency Medical Technician (EMT)	KVCC-Texas Township Campus	
Health Science	KVCC-Texas Township Campus	
Human Services Pathway	**Site**	**Visual, Performing & Applied Arts**
Cosmetology/Barbering	West MI College of Barbering & Beauty	Yes
Law Enforcement	KVCC-Texas Township Campus	
Teacher Academy	Gull Lake, Loy Norrix, Portage Northern	Yes
Natural Sciences & Agri-Science Pathway	**Site**	**Visual, Performing & Applied Arts**
Agri-Science: Animals and Plants	Vicksburg	
Conservation Biology	Kalamazoo Nature Center Heronwood Field Station	
Horticulture	Vicksburg	
Veterinary Science	Vicksburg	
Wildlife & Natural Resources	Vicksburg	

Revised: November 18, 2022

EDUCATION FOR THE ARTS EFA

EDUCATION FOR THE ARTS
2023-2024 COURSE DESCRIPTIONS

DANCE

Beginning Dance Studio
Comstock / Loy Norrix / Kalamazoo Central / Parchment / Galesburg-Augusta
Learn the basic elements and discipline of formal dance technique, exploring classical modern dance, ballet, jazz, hip hop, 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 concert at the end of each term. 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.

Intermediate Dance Studio
Kalamazoo Central / Loy Norrix
Intermediate Dance is for students who have completed a beginning EFA class, or have previous dance/movement experience, and are committed to a full year of dance instruction. Students will further their training through in-depth instruction and structured small group student exploration in formal dance technique, classical modern dance, ballet, jazz, hip hop, and cultural dance styles. Exploration of dance-related subjects will include movement improvisation, composition, and dance history. Students will gain performance, composition, and choreographic skills, develop observation, analysis, critical thinking, and reflection skills. Students will prepare and produce a dance presentation each trimester. The class will take field trips to professional dance concerts and work with master guest artists.

LITERARY ARTS

Creative Writing Online
Web based
Through the study of written works in various forms and the regular practice of writing, students will achieve a better understanding of the creative writing process. Additionally, students will collaborate on a few projects, and will read and critique one another's work through small group workshops (held through discussion forums). Students will turn in four major creative writing assignments, regular creative writing exercises, three short reflections, a recording of student performing one of their assignments, and an online portfolio.

Comics, Manga and Graphic Novel Arts
Web based and at High School
Learn to write and produce compelling, artistic and inventive comics or manga, and Graphic Novels. Research the history of comics, study the elements of story, plot, and character development, and the productive use of imagery, layout, and composition. Work individually and collaboratively on projects and develop projects through manipulation and editing of found media and open source graphics.

MEDIA ARTS

Film and Video Arts
Kalamazoo Central and Vicksburg High Schools
Film & Video Arts introduces students to the creation and study of time-based media in video and film. They work with the latest digital technology in creating a variety of works that help them mold and define their own personal visual style for innovative, artistic communication.

Advanced Video Arts Studio
Kalamazoo Central and Vicksburg High School
AVAS is a project-based video class for 9-12 grade students who have already taken at least one semester of a video or TV production class. The class will concentrate on individual student films that will be used for portfolio work and entered into video competitions. Students will learn about lighting, sound, directing and advanced filming and editing techniques.

3D Computer Animation and Game Design
Epic Center Public Media Network
Introduction to the technical and creative fundamentals of 3D Animation software. Students will learn core concepts such as modeling, mapping, story board/scripting, and rendering. Students will create original characters and environment designs, animate characters in a game landscape, and design storyboards using gaming logic and strategies.

KVCC Media Arts
Kalamazoo Valley Community College – Center for New Media - EFA/KVCC Dual Enrolled Program
Fall Semester: ANM 120: Creative Business Standards, MF and ANM 100 Adobe Creative Suite
Winter Semester: ANM 143 Adobe Illustrator, MF and ANM 142 Adobe Photoshop, TWR
Create artworks using computers as tools and learn how art communicates emotions and ideas. Projects include digital photograph manipulation, art for the Internet, stereo 3D images, digital painting, and combining traditional media with new technologies.

Digital StudioArt
Web based and Epic Center Public Media Network
This class will introduce the basics of drawing and painting using digital means, in the process also giving them an introduction to the basics of digital imaging using Adobe Photoshop and Illustrator. The course is built around the core elements of visual art, such as line, shape, value, and color with an additional emphasis on learning and using the tools of imaging software.

Digital PhotoArt
Web based and Epic Center Public Media Network
This class will introduce, enhance and refine students' ability to express themselves with the aid of digital cameras. Students will learn proper photographic technique, computer enhancement of photos, printing and professional presentation techniques. Students will have many assignments ranging from core photography fundamentals to immersive pieces of personal expression. They will leave class with the beginnings of a portfolio and knowledge to continue and expand their work in the future.

VISUAL ARTS

Visual Arts Exploration: Wednesday Evenings. One Semester.
Kalamazoo Institute of Arts
Explore creating sculpture, photography, jewelry, painting and more at the Kalamazoo Institute of Arts.
Work alongside practicing professional artists as they share their knowledge and expertise in art making.

Advanced Visual Arts Studio: School Day. Full-year.
Kalamazoo Institute of Arts
Deepen your creativity and visual arts skills at the Kalamazoo Institute of Arts. Take advantage of the professional facilities, equipment, and master guest artists. This studio class offers advanced study in sculpture, oil painting, jewelry, photography, welding, printmaking, ceramics, and more. Develop a Visual Arts Portfolio and learn presentation skills to apply for college scholarships and student art shows.

THEATRE and PERFORMING ARTS

Advanced Musical Theatre
Portage Northern High School
Using a workshop approach, students will experience an in-depth study of musical theatre to enhance their appreciation of the genre and improve their practical performance skills in acting, vocal and dance performance. Mentored by theatre, vocal and dance educators and guest artists, students will 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.

Theatre Improv and Scriptwriting
Comstock and Climax-Scotts High Schools
Through in-depth study and practice 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. Students work with practicing artists exploring different forms of theatre, from classical to contemporary. These experiences will inform the development of each student's distinct writing style. Students will participate in a minimum of two class performances and visit area theatres to experience a variety of stage productions.

Hip Hop 180
Loy Norrix High School
Activate your voice and amplify your vision through the power of performance rap/poetry, music, and movement. Dig into the history of Hip Hop culture and social justice leadership to build skills, decipher contexts, and determine truths. Then merge your artistic and activist knowledge and techniques to enact meaningful, positive social change in y(our) community.

Education for the Arts
2023-2024 Offerings

EFA Class	Commitment	Class Location	Class Time	Credits	Michigan Merit Credit	Instructor	Hub
DANCE							
Trimester Offerings							
Beginning Dance Studio	1st, 2nd or 3rd Tri	Parchment High School	7:45-8:49 am	0.5	VPAA and PE (per school district)	TBA	N
Beginning Dance Studio	1st, 2nd or 3rd Tri	Loy Norrix High School	8:49 - 9:59 am	0.5	VPAA and PE (per school district)	Mitchell	N
Beginning Dance Studio	1st, 2nd or 3rd Tri	Loy Norrix High School	10:04-11:19 am	0.5	VPAA and PE (per school district)	Mitchell	N
Beginning Dance Studio	1st, 2nd or 3rd Tri	Kalamazoo Central High	8:49 - 9:59 am	0.5	VPAA and PE (per school district)	Pileci	N
Beginning Dance Studio	1st, 2nd or 3rd Tri	Kalamazoo Central High	11:54-1:05	0.5	VPAA and PE (per school district)	Pileci	N
Beginning Dance Studio	1st, 2nd or 3rd Tri	Kalamazoo Central High	11:14-11:49am	0.5	VPAA and PE (per school district)	Pileci	N
Full Year Offerings							
Intermediate Dance Studio (prerequisites)	full year, daily	Kalamazoo Central High	7:33 - 8:44 am	1.5	VPAA and PE (per school district)	Pileci	Y
Intermediate Dance Studio (prerequisites)	full year, daily	Loy Norrix High School	7:33 - 8:44 am	1.5	VPAA and PE (per school district)	Mitchell	Y
SemesterOffering							
Beginning Dance Studio	1st and/or 2nd semester	Galesburg-Augusta	1:40-2:33	1.0	VPAA and PE (per school district)	Mitchell	N
Beginning Dance Studio	1st and/or 2nd semester	Comstock High School	8:54-9:47	1.0	VPAA and PE (per school district)	Robinson	N
MEDIA ARTS							
Full Year Offerings							
3D Computer Animation/Game Design	full year, daily	Epic Center PMN	12:15-1:45 pm	2.0	VPAA	Perigo	y
Film and Video Arts & Adv FVA	full year, daily	Kalamazoo Central High	7:45 - 9:15 am	2.0	VPAA	Smith	Y
Film and Video Arts & Adv FVA	full year, daily	Vicksburg High School	12:52-1:32	1.0	VPAA	Smith	N
Trimester Offering							
Film and Video Arts (KCHS only)	1st, 2nd or 3rd Tri	Kalamazoo Central High	10:04-11:19 am	0.5	VPAA	Smith	N
Semester Offerings							
Digital PhotoArt	1st semester	Online and Epic Center PMN	6:00 - 7:45 pm Tue	0.5	VPAA and online requirement	Wagner	N
Digital StudioArt	2nd semester	Online and Epic Center PMN	6:00 - 7:45 pm Tue	0.5	VPAA and online requirement	Wagner	N