

2015.2016 C O U R S E **CATALOG**













great classes, better life Preparing today's students for tomorrow's careers

Education for Employment



EDUCATION FOR EMPLOYMENT IS FOR EVERYONE!

Consider your special interests, abilities and talents as you continue your career planning. Don't limit your choices to traditional male and female occupations. EFE is available for all 10th-12th grade students in Kalamazoo County: public, non-public and home schooled. Explore your possibilities -- there are no limits.

SKILLS FOR THE WORKPLACE

All EFE programs incorporate employability and workplace skills training. Employability skills include topics such as resume writing, interviewing tips, completing a job application and much more. Workplace skills include being a team player, attendance, initiative, honesty and many more skills crucial to success in any career.

LIFE AFTER SCHOOL

What are your plans after graduation... are you clueless? Did you know that many students change their minds about what they want to do within two years of graduating from high school? Education for Employment can help you with your career decision through a wide variety of career programs!

How would you like to experience hands-on career training in your field of interest while learning current business and industry skills through the latest technology? Many programs take you right into the work site for training -- such as hospitals, clinics, businesses, hotels, manufacturing facilities, offices, construction sites, etc. These programs teach tools and techniques of the trade -- brake systems, animal healthcare, emergency medical care, CPR, welding, carpentry, etc.

Not only do you receive business- and industry-credentialed training and academic credit in the math, science or arts areas, but you may also receive free college credit from local colleges and universities!

Open the pages. Check out the many Education for Employment programs. Find the one that is right for you. It is our mission to prepare YOU for tomorrow's careers . . . TODAY!

Debra J. Miller Executive Director, Education for Employment dmiller@kresa.org, 269.250.9300



Education for Employment

Education for Employment is a fantastic career training opportunity for students. They experience hands-on career training in their field of interest, learning current business and industry skills through the latest technology. Did you know EFE is also a great opportunity for MICHIGAN MERIT ACADEMIC credit and COLLEGE credit?

MICHIGAN MERIT ACADEMIC CREDIT

Students enrolled in EFE programs will receive credit for their EFE course and will also obtain equivalent academic credit needed for Michigan Merit Curriculum graduation requirements.

Academic Credit 3rd Science Credit	EFE Program Available for Academic Credit Animal Technology; Dental Assisting; Emergency Medical Technician (EMT); Fundamentals of Health Science; Health Science; Veterinary Science
4th Related Math Credit	Accounting/Finance; Accounting - College; Art & Design Career Skills; Automotive Technology; Aviation Technology; Banking & Finance; Business Administration Management & Operations (BMA); Computer Technology; Computerized Manufacturing; Construction Trades; Culinary Arts; Drafting Technology; Electrical Technology; Electronics & Robotics; Engineering Design; Furniture & Cabinetmaking; Heating, Ventilation & Air Conditioning; Hotel, Restaurant & Travel Management; Marketing; Principles of Engineering; Welding
Visual, Performing and Applied Arts Credit	Art & Design Career Skills; Business Administration Management & Operations (BMA); Computerized Manufacturing; Construction Trades; Cosmetology/Barbering; Culinary Arts; Digital Video Production; Drafting Technology; Electronics & Robotics; Furniture & Cabinetmaking; Marketing; Photography/Digital Imaging; Radio Broadcasting; Teacher Academy; Welding

NOTE: Please check with your local district regarding 2nd & 3rd science credit or foreign language

COLLEGE CREDIT

AP courses and dual enrollment in high school aren't the only options for high school students to get college credit. Students may also receive FREE college credit through their EFE programs. EFE students can obtain up to 12 college credit hours in their chosen career path at participating colleges and universities.

Participating Colleges

Baker College	Ferris State University	Michigan Career Tech Institute
Central Michigan University	Kalamazoo Valley Community College	Northwestern Michigan College
Davenport University	Kellogg Community College	University of Northwest Ohio

EFE Programs Available for College Credit

- Accounting/Finance Animal Technology Art & Design Career Skills Automotive Technology Aviation Technology BMA Banking & Finance College Accounting Computer Technology Computerized Manufacturing
- Conservation Biology Construction Trades Culinary Arts Dental Assisting Digital Video Production Drafting Technology Electrical Technology Electronics & Robotics Emergency Medical Technician Engineering Fundamentals of Health Science
- Furniture & Cabinetmaking Health Science/Professional Health Sci. Heating, Ventilation & Air Conditioning Hotel, Restaurant & Travel Management Law Enforcement Marketing Photography/Digital Imaging Radio Broadcasting Teacher Academy Veterinary Science Welding



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Pathway to:

Arts & Communications

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- Art & Design Career Skills
- Digital Video Production
- Photography/Digital Imaging
- Radio Broadcasting



Art & Design Career Skills

▶ Is this course right for you?

If you like to design, create graphics like cards and posters, sew, design interiors, illustrate, make fine art paintings, draw or create web pages, or design on a computer, then this is the course for you.

Credits // Certification

- 4th Related Math Credit
- Visual Performing & Applied Arts Credit
- College Credit (Articulation): Baker Colleger, Davenport University, Ferris State University, Kalamazoo Valley Community College

Eligibility // Prerequisites

- Sophomore, Junior or Senior
- Dress code for presentations

Career Data // Jobs

animator, art director, art teacher, fashion designer, fine artist, game designer, graphic designer, illustrator, interior designer, live motion capturist, post-production videographer, product and packaging designer

For salary information go to: http://snipurl.com/salaryinfo

"I walked into this classroom thinking I'd learn how to make a font . . . I ended up learning how to make a career in making blockbuster movies."

- Brandon Frederick Jones, DI Supervisor, Walden Media, Alumnus



Arts & Communications Pathway

Art & Design Career Skills Arts & Communications Pathway

Students develop visual literacy skills and techniques, as well as explore the many different career possibilities in the field of art.

Some of the visual literacy training includes lessons in composition, the meaning of colors theory, the meaning of shapes theory, drawing skills, design skills and understanding design theory. The course explores many different media, including traditional and digital. Speakers and recruiters from leading national art colleges will explain the many different careers and their training paths.

Students develop skills in computer design, illustration, fashion design and graphic techniques, animation, interior design and the graphic arts.

The development of a professional art portfolio is a major focus of the class. This program seeks to prepare students for an art career.

Arts & Communications Pathway



Digital Video Production

Is this course right for you?

Do you like telling stories and expressing yourself through video or writing? Are you creative? Do you like directing others? If you like solving creative problems with real world skills, then this is the course for you.

Credits // Certification

- Visual Performing & Applied Arts Credit
- College Credit (Articulation): Davenport University, Ferris State University

Eligibility // Prerequisites

- Junior or Senior
- Occasional Extended Hours



Career Data // Jobs

animator, assistant lighting director, camera operator, digital audio technician, director, flash video producer, key grip, producer, script writer, video technician, videographer, web video producer

For salary information go to: http://snipurl.com/salaryinfo

"Inspired . . . hands-on training. This class gets me used to the field, working with the equipment and making my own production."

- Adrian Lopez, Loy Norrix Alumnus

Digital Video Production Arts & Communications Pathway

This course provides students with entry-level skills in the expanding field of digital production: corporate video departments, broadcast television stations, advertising agencies, media production companies and independent production companies. This course emphasizes the skills and work ethic needed for these exciting careers. Areas of study and practice will focus on documentaries, educational programming and television journalism projects. This class provides students with the opportunity to enter local and national competitions as well as airing student work on Public Media Network stations.

All these skills revolve around the use of proper techniques to produce high-quality video and audio using digital technology.

Whether you want to see your name in lights or scrolling by in the end credits, this course will teach you how to use technology to communicate effectively with the audience.

LIGHTS - CAMERA - and YOU!



Arts & Communications Pathway Photography/Digital Imaging

► Is this course right for you?

Do you like to take pictures, imagine new photographic-like images, imagine new and different ways to make images or take portraits or landscapes? If you do, then this is the course for you.

Credits // Certification

- Visual Performing & Applied Arts Credit
- College Credit (Articulation): Davenport University, Ferris State University

Eligibility // Prerequisites

Sophomore, Junior or Senior

Career Data // Jobs

digital imager, documentary photographer, fashion photographer, fine artist, illustrator, people photographer, photographic restorer, photojournalist, product and advertising photographer, teacher, web design

For salary information go to: http://snipurl.com/salaryinfo

"I enrolled in EFE's Photography/ Digital Imaging class because I loved taking pictures as a hobby. Now years later, I couldn't be more grateful that I turned that hobby into my career."

- Lesley Smith, Exelon Corporation, Chicago, IL, Graphic Designer, Alumna



Photography/Digital Imaging Arts & Communications Pathway

This course provides students with entry-level skills in basic black and white ³⁵mm photography and digital imaging. This course also covers traditional darkroom techniques along with introductory professional training in computer imaging. Adobe Photoshop and other appropriate applications are an integral part of the digital imaging sections of the curriculum.

Students also learn alternative process techniques, photojournalism, studio photography, photographing people and landscapes and night photography. Other course topics include photo restoration, the photograph as art and photographs in advertising.

In addition, students will learn how to mount, mat and display their various photographic assignments.



Arts & Communications Pathway **Radio Broadcasting** WKDS - 89.9 FM

Is this course right for you?

Do friends tell you that you have a good voice, that you are a leader or that you are funny or creative? If you love journalism or if you love music and love to talk about it, then this is the course for you.

Credits // Certification

- Visual Performing & Applied Arts Credit
- College Credit (Articulation): Ferris State University

Eligibility // Prerequisites

- Junior or Senior
- Occasional extended hours

Career Data // Jobs

announcer, chief engineer, general manager, news director, program director, program host, radio sales, sportscaster

For salary information go to: http://snipurl.com/salaryinfo

"WKDS gave me the voice I've always wanted. Because of my EFE instructor's guidance and encouragement, I now study Radio Broadcasting in college. I love it! EFE changed my life for the better."

- Beth Tizzle, Alumna



Radio Broadcasting Arts & Communication Pathway

This course is ideal for students who want to work in the field of radio broadcasting. Students will gain work experience on a student run and managed radio station, 89.9 FM WKDS.

This course explores all aspects of the radio broadcasting industry including radio production, being an on-air personality, marketing, sales, promotion, engineering, writing for radio news and the history of the industry.

Pathway to: Business, Management, Marketing & Technology

CERTERNOR OFF.

- Accounting
 - Accounting/Finance
 - College Accounting
- Banking & Finance
- Business Administration Management & Operations(BMA)
- Computer Technology
- Culinary Arts
- Hotel, Restaurant & Travel Management
- Marketing/Entrepreneurship



Accounting/Finance

► Is this course right for you?

If you are analytical, enjoy working with numbers, are detail oriented, have good time management skills, and enjoy working with technology, then this is the course for you.

Credits // Certification

- 4th Related Math Credit
- College Credit (Articulation): Baker College, Davenport University, Kalamazoo Valley Community College

Eligibility // Prerequisites

none



Career Data // Jobs

accountant, accounts receivable/ payables clerk, auditor, banker, bookkeeper, certified public accountant, chief financial officer, controller, financial consultant, forensic accounting, payroll clerk

For salary information go to: http://snipurl.com/salaryinfo

"Didn't consider an accounting major until I took this class. My first accounting class at Kansas University was my easiest; I only refreshed while others struggled . . . led to scholarships in the Multicultural Business Scholars."

- Anna Bliss, Portage Alumna

Accounting/Finance Business, Management, Marketing & Technology Pathway

Basic Accounting/Accounting I

This course provides students with basic recordkeeping skills in 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.

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.



College Accounting

Is this course right for you?

Are you organized and analytical, and someone who has an eye for detail, loves working with numbers and spreadsheets? If so, this course may be for you.

Credits // Certification

- 4th Related Math Credit
- Students who pass the qualifying exam are given credit and a grade for the first accounting course at Kansas State University and are allowed to take the second introductory accounting course as a first semester freshman.

Eligibility // Prerequisites

- Sophomore, Junior or Senior
- Preferred Maintained a "B" average or higher in all high school math courses

Career Data // Jobs

certified public accountant, chief financial officer, financial analyst, financial manager, forensic accountant, revenue agent, staff accountant, staff auditor, tax examiner, top executive

For salary information go to: http://snipurl.com/salaryinfo

"I am currently enrolled in business classes at Kalamazoo Valley Community College. Without my College Accounting class, I would be lost. Although the class was tough, it prepared me for the future."

- Cassidy Boers, Comstock High School Alumna



College Accounting (*AP Accounting Pilot) Business, Management, Marketing & Technology Pathway

This college-level course is for the student who has a strong interest in the financial and managerial aspects of business, is committed to independently reading a college-level textbook and completing rigorous homework assignments. Students learn through an integrated approach how businesses plan for and evaluate their operating, financing, and investing decisions and how accounting systems gather and provide data to internal and external decision makers. Topics include an introduction to accounting, accounting information systems, time value of money, and accounting for merchandising firms, sales and receivables, fixed assets, debt and equity. Other topics include statements of cash flow, financial ratios, cost-volume profit analysis and variance analysis.

* The goal of the Accounting Pilot and Bridge Project (APBP) is to get the College Board to add Accounting to its AP Curriculum. More broadly, the project aims to provide a course that "attracts high-quality students, prepares them for the academic rigor of the college/university accounting curriculum, and gives them a clear understanding of the roles accounting professionals play in business and society." To learn more about the project's status and potential college credits go to: http://accountingpilot.com/.



Banking & Finance

Is this course right for you?

Do you like money and working with numbers? Do you like talking to people? Do you like routine, organized work habits? If you do, then this is the course for you.

Credits // Certification

- 4th Related Math Credit
- College Credit (Articulation): Davenport University

Eligibility // Prerequisites

Sophomore, Junior or Senior

Career Data // Jobs

accountant, accounts clerk, bank teller, banker, billing clerk, finance manager, loan officer, mortgage officer, quality control auditor

For salary information go to: http://snipurl.com/salaryinfo

"Banking & Finance is a great class. It covers a lot of what you need to know and gives you a head start on achieving or even making your final decision about what you want to do. This class is worth taking."

- Travis Gearhart, Galesburg-Augusta Alumnus



Banking & Finance Business, Management, Marketing & Technology Pathway

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.



Business, Management, Marketing & Technology Pathway Business Administration Management & Operations (BMA)

Is this course right for you?

Do you like multitasking and organizing things? Do you enjoy being a leader on a project? Do you like using technology to present your ideas? If these things sound like you, then this is the course for you.

Credits // Certification

- 4th Related Math Credit
- Visual Performing & Applied Arts Credit
- College Credit (Articulation): Baker College, Davenport University, Ferris State University, Kalamazoo Valley Community College

Eligibility // Prerequisites

■ none

Career Data // Jobs

administrative assistant, compliance manager, director of human resources, entrepreneur, general manager, office manager, project manager, quality control analyst, training and development specialist, VP of operations

For salary information go to: http://snipurl.com/salaryinfo

"Thank you. The business skills you taught in my class over ten years ago I still use today."

- Erica Garrett, Alumna



Business Administration Management & Operations (BMA) Business, Management, Marketing & Technology Pathway

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.



Computer Technology

► Is this course right for you?

If you like to work hands-on with computer systems, then this is the course for you.

Credits // Certification

- 4th Related Math Credit
- College Credit (Articulation): Baker College, Davenport University, Kalamazoo Valley Community College
- CompTIA A+ (1st year)
- CompTIA Network+ (2nd year)
- CompTIA Security+ (2nd year)

Eligibility // Prerequisites

Sophomore, Junior or Senior

Career Data // Jobs

computer/network security, computer technician, help desk technician, network administrator, service technician, systems analyst

For salary information go to: http://snipurl.com/salaryinfo

"I went into this program with only a basic knowledge of computers and no idea how to do what I knew correctly. This class provided me with plenty of opportunities to learn how to properly perform tasks and get certifications that will help me with my entire career."

- Galen Patrick, Vicksburg High School Alumnus Certified in A+, Network+, and Security+



Computer Technology Business, Management, Marketing & Technology Pathway

Computer Technology I

This course is designed to provide students with the knowledge and skills necessary to pursue a career in the computer technology industry. Material covered will be aligned specifically with the CompTIA A+ exams which are necessary to earn CompTIA's A+ certificate. A+ certification is required by most employers in the IT/computer repair industry. There will be a significant amount of hands-on experience including maintaining, upgrading, troubleshooting, and repairing computers, computer components and software.

Computer Technology II

The second-year course concentrates on the requirements of the CompTIA Network+ and CompTIA Security+ certifications, which are industry-recognized standards for technicians pursuing a career in network administration/implementation, data center management, and data security. A growing number of high tech firms and companies dealing with the Federal Government are requiring Security+ certification for their IT staff. Study will focus on all aspects of computer network technologies, network & data security, implementation, maintenance, and troubleshooting. Successful completion of Computer Tech I and teacher approval required.

Culinary Arts

► Is this course right for you?

Do you like to create good food for your family and friends, try new recipes, work with people and be creative? Can't get enough of the Food Network? If so, then this is the course for you.

Credits // Certification

- 4th Related Math Credit
- Visual Performing & Applied Arts Credit
- College Credit (Articulation): Baker College, Davenport University, Ferris State University
- ServSafe Certification Training
- Standard First Aid & Adult CPR Certificate

Eligibility // Prerequisites

Junior or Senior

Career Data // Jobs

baker, caterer, chef, dietician, food services worker/manager, food preparation worker, institution cook, meat cutter, nutritionist, pastry chef, restaurant owner, sous chef

For salary information go to: http://snipurl.com/salaryinfo

"The culinary arts program has inspired me to pursue a career in the food industry. I've learned basic culinary skills and we created a family. In the food industry your attitude with people really counts. Joining this class showed me a new kind of love and improved my people skills. Culinary arts is for you if you love working with others and you have a passion for food."

- Sarah Hensley, Alumna



Culinary Arts Business, Management, Marketing & Technology Pathway

Students taking this course will learn the fundamentals of cooking and baking as well as the science of food safety, the fundamentals and science of food handling, food prep and service, sanitation and safety, maintenance of tools and equipment, and nutritional guidelines. Students also develop the cooking and baking skills necessary to be successful in the culinary industry.

The course will emphasize creative, hands-on food preparation, as well as professionalism and work habits required in this industry. Students will have the opportunity to receive work-based training such as job shadowing, field trips and other experiences at area restaurants. The curriculum includes the National Food Industry standards for the ServSafe Certification, an industry credential that verifies that an applicant entering the workforce has the necessary skills for employment.



Hotel, Restaurant & Travel Management

Is this course right for you?

If you like to work with people and care about their satisfaction and enjoyment, then this is the course for you.

Credits // Certification

- 4th Related Math Credit
- College Credit (Articulation): Baker College, Davenport University, Ferris State University
- ServSafe National Certification (valid 5 yrs)
- First Aid & Adult CPR Certification
- Hospitality & Tourism Management Certification (valid 5 years)
- Certified Tourism Ambassador (CTA)
- Guest Service Gold National Certification

Eligibility // Prerequisites

Sophomore, Junior or Senior

Career Data // Jobs

banquet manager, catering manager, corporate sales manager, director of marketing, events manager, conference manager, executive chef, general manager, guest services coordinator, hotel group sales manager, meeting coordinator, public relations manager, restaurant manager, wedding coordinator, wedding sales manager

For salary information go to: http://snipurl.com/salaryinfo

"If I had to give some advice to anyone thinking about taking this EFE class, I would have to say this: DO IT! You get so many awesome experiences that you will always remember, and skills and certifications that make it a lot easier to get a job."





Hotel, Restaurant & Travel Management Business, Management, Marketing & Technology Pathway

This course provides students with a basic understanding of the hospitality industry and related careers. In addition to course work, students will participate in job shadowing experiences and will have the opportunity to participate in DECA. DECA prepares emerging leaders and entrepreneurs in marketing, finance, hospitality and management. This course also provides students with an opportunity for a behind-thescenes tour of Disney World in Orlando, Florida.

Hotel, Restaurant & Travel Management (HRTM) is one of America's fastest growing industries. Areas of study in this program include lodging and restaurant operations/management; travel and tourism planning; food and beverage management; and event and meeting planning.



Marketing/Entrepreneurship

Is this course right for you?

Do you enjoy using your creative talents to promote ideas? Do you aspire to own your own business and be your own boss? Do you find satisfaction in providing great customer service? If this sounds like you, then this course is for you.

Credits // Certification

- 4th Related Math Credit
- Visual Performing & Applied Arts Credit
- College Credit (Articulation): Baker College, Davenport University, Kalamazoo Valley Community College

Eligibility // Prerequisites

none

Career Data // Jobs

account manager, advertising agent, corporate sales/marketing, department team leader, entrepreneur, fashion merchandise buyer, manufacturer's representative, public relations specialist, regional merchandiser, retail sales clerk, social media manager, sports marketing, store manager, supply chain manager, VP of communications for non-profit agency

For salary information go to: http://snipurl.com/salaryinfo

"I have learned so much and the projects we do helped me a lot. I found a great job as a marketing assistant for a non-profit organization, and the skills I have acquired from this class make my job so much easier."

- Logan Dankert, Comstock Alumna



Marketing/Entrepreneurship Business, Management, Marketing & Technology Pathway

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.

Pathway to: Engineering, Manufacturing & Industrial Technology

- Automotive Technology
- Aviation Technology
- Computerized Manufacturing
- Construction Trades
- Drafting Technology
- Electrical Technology
- Electronics & Robotics
- Engineering
- Furniture & Cabinetmaking
- Heating, Ventilation & Air Conditioning
- Welding



Automotive Technology

► Is this course right for you?

If you like engines and automotive service, then this is the course for you.

Credits // Certification

- 4th Related Math Credit
- College Credit (Articulation): Baker College, Kalamazoo Valley Community College, University of Northwest Ohio
- NATEF Training

Eligibility // Prerequisites

Sophomore, Junior or Senior

Career Data // Jobs auto mechanic, service repair technician

For salary information go to: http://snipurl.com/salaryinfo

Automotive Technology

"This class is really fun; it's all hands-on!"

- Austin Eaton, Vicksburg



This National Automotive Technician Education Foundation (NATEF) 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.



Aviation Technology

► Is this course right for you?

Do you want to jump-start your career in aviation? Do you enjoy science and math? If you do, then this course is for you.

Credits // Certification

- 4th Related Math Credit
- College Credit (Articulation): Baker College, Northwestern Michigan College
- Dual enrollment at Kellogg Community College (5 credits 1st yr; 4 credits 2nd yr)

Eligibility // Prerequisites

- Junior or Senior; dual enrolled
- Suggest a background in math and science
- Must follow dual enrollment policies at Kellogg Community College.

Career Data // Jobs

A&P mechanic, aeronautical engineer, air traffic controller, airfield operations specialist, airplane repair specialist, astronaut, FAA inspector, flight engineer, flight instructor, pilot

For salary information go to: http://snipurl.com/salaryinfo

"Aviation Tech taught me the skills and talents to excel in my studies at Northwestern Michigan College. Entering college with this knowledge gave me a head start among my classmates and saved many credit hours."

- Ethan Manchester, Alumnus



Aviation Technology Engineering, Manufacturing & Industrial Technology Pathway

Students in this course are dually enrolled and have the opportunity to 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. Wrap-around instruction is provided by EFE to insure student success at the college level.

This program is designed to introduce students to every aspect 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 have the opportunity to interact with industry experts and visit leaders in the field of aviation for career exploration. The program will feature many hands-On labs culminating in a competition using hovercrafts the students build together.



Computerized Manufacturing

Is this course right for you?

If you like computerized design followed by computerized programming of CNC machines and basic machining skills, this program blends the two in a high technology manufacturing environment.

Credits // Certification

- 4th Related Math Credit
- Visual Performing & Applied Arts Credit
- College Credit (Articulation): Ferris State University, Kalamazoo Valley Community College

Eligibility // Prerequisites

none

Career Data // Jobs

CAD/CAM programmer, CNC machinist, industrial machine repair, lathe operator, machine operator, machine tool setter, metrology specialist, millwright, part designer, press operator, quality inspector, tool and die maker, tool room specialist

For salary information go to: http://snipurl.com/salaryinfo

"Computerized Manufacturing taught me valuable knowledge about complex machines that are a large part of today's society. The skills that you learn from this class are what employers will look for on your resume. You may even get a job because you have the ability to operate these machines."

- Ethan Richards, Vicksburg High School Alumnus Engineering Intern at FEMA



Computerized Manufacturing Engineering, Manufacturing & Industrial Technology Pathway

This exciting, fast-paced pre-engineering course provides advanced technology training in computer-aided design and computer manufacturing systems. All equipment is state of the art including Haas and Mazak CNC machining centers. The course uses CAD software including SolidWorks, Mastercam and KeyCreator. It also features demonstrations and maximizes student laboratory work (80% handson).

Students gain planning, organizing and decision-making skills while also developing acceptable attitude, interpersonal and equipmentrelated skills. Paid co-op opportunities are available to second-year students who are placed at local manufacturers.

Computerized Manufacturing prepares students for immediate employment, advanced schooling and/or apprenticeship opportunities with local area employers.



Construction Trades

Is this course right for you?

Do you like to build things, work with your hands, and work outside using the most modern trends in building science? If so, then this is the course for you.

Credits // Certification

- 4th Related Math Credit
- Visual Performing & Applied Arts Credit
- College Credit (Articulation): Kalamazoo Valley Community College

Eligibility // Prerequisites

- Junior or Senior
- Dress appropriately for working in all kinds of weather conditions
- May be responsible for transportation

Career Data // Jobs

bricklayer, carpenter, construction manager, contractor, concrete finisher, drywaller, electrician, energy auditor, excavator, general laborer, HVAC technician, iron worker, job superintendent, owner/president of construction company, painter, plumber, project manager, safety manager

For salary information go to: http://snipurl.com/salaryinfo

"In Construction Trades we build Habitat homes where students from many backgrounds and experiences come together as a team and experience the rewards of hard work."

- Javius Cunningham, Kalamazoo Central High School



Construction Trades Engineering, Manufacturing & Industrial Technology Pathway

This course exposes students to several aspects of the construction 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 an important 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.



Drafting Technology

► Is this course right for you?

Do you like to design things? Would you like to see your designs come to life? If you answered yes to these questions, then this is the course for you.

Credits // Certification

- 4th Related Math Credit
- Visual Performing & Applied Arts Credit
- College Credit (Articulation): Baker College, Davenport University, Kalamazoo Valley Community College

Eligibility // Prerequisites

Sophomore, Junior or Senior

Career Data // Jobs

architect, BIM manager, biomedical engineer, CAD manager, CAD operator, civil engineer, drafter, industrial engineer, interior designer, landscape architect, mechanical engineer, project manager

For salary information go to: http://snipurl.com/salaryinfo

" While I still took basic architectural drawing courses in college, I was very much ahead of the game. I found that I was able to spend more time analyzing and designing, fleshing out ideas quickly, rather than putting my effort into learning programs like AutoCAD, which I already knew because of my background in Kalamazoo Central's drafting courses."

- Hannah Dewhirst, Kalamazoo Central High School Alumna, University of Michigan, Taubman College of Architecture and Urban Planning



Drafting Technology Engineering, Manufacturing & Industrial Technology Pathway

This program teaches CAD (Computer-Aided Drafting) and students develop specific skills to help prepare them for the world of work or post-secondary education. Students will use high-tech software to create their own designs. Students may choose either architectural drafting or mechanical drafting (pre-engineering).

Architectural Drafting

Using a hands-on approach, students are given the opportunity to use their creativity and imagination to design residential and commercial structures. Exercises include hand and CAD 2D and 3D drafting to design residential and commercial building floor plans, sections and elevations which are typical to those used by contractors. Green Architecture, design concepts, and professional vocabulary will be emphasized. Students may take this course for three years.

Mechanical Drafting

Use of standard drafting technique will be developed; geometrical construction, orthographic projection, auxiliary views, section views, and dimensioning practices will be emphasized. Students will focus on design and assembly of 3D parametric models, assembling parts together, creating 2D working drawings and adding animation to their assemblies. Designs will come to life using the 3D prototype machine, CNC router and laser cutter with students learning basic machining operations. Students may take this course for two years.



Electrical Technology

Is this course right for you?

If you like troubleshooting, working with your hands, and working with tools – and if you're steady, alert, and focused, then this course is for you!

Credits // Certification

- 4th Related Math Credit
- Dual enrollment at Kalamazoo Valley Community College - 7 College Credits
- College Credit (Articulation): Baker College

Eligibility // Prerequisites

- Seniors only; dual enrolled
- Students provide own transportation
- Students follow dual enrollment policies and the KVCC calendar requiring an extended day and loss of high school spring break.

Career Data // Jobs

alarm installer, electrical supply company representative, electronics installer/repairer, journeyman electrician, residential wiring electrician, telephone/cable/burglar/fire power line worker, wind energy tech/mechanic

For salary information go to: http://snipurl.com/salaryinfo

"The U.S. is facing a critical shortage of trained professionals to maintain the existing electric power system and to design, build, and operate the future electric system."

- Task Force on America's Future Energy Jobs convened by NCEP.



Electrical Technology Engineering, Manufacturing & Industrial Technology Pathway

Students in this course are dually enrolled and have the opportunity to earn college credit through Kalamazoo Valley Community College.

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



Electronics & Robotics

► Is this course right for you?

Do you like figuring out how things work and using your creativity to solve problems? If you do, then this is the course for you.

Credits // Certification

- 4th Related Math Credit
- Visual Performing & Applied Arts Credit
- College Credit (Articulation): Baker College, Davenport University, Kalamazoo Valley Community College

Eligibility // Prerequisites

Sophomore, Junior or Senior

Career Data // Jobs alternative energy specialist, computer engineer, electrical engineer, electrician, environmental engineer, manufacturing engineer, mechanical engineer, sales, technical engineer, technician, wind power technician

For salary information go to: http://snipurl.com/salaryinfo

"This course introduced me to electronics and started me on my career path. Now I'm working for a top aerospace company designing state-of-the-art satellite communication systems."

- Sean Reminga, Northrup Grunnan, Alumnus



Electronics & Robotics Engineering, Manufacturing & Industrial Technology Pathway

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



Engineering

Is this course right for you?

Do you like to problem solve working in a group setting? Would you enjoy the chance to utilize engineering design concepts to develop projects? If you answered yes, then this is the course for you.

Credits // Certification

- 4th Related Math Credit
- Visual Performing & Applied Arts Credit
- College Credit (Articulation): Kalamazoo Valley Community College

Eligibility // Prerequisites

none

Career Data // Jobs

CAM programmer, CNC programmer, electrical and mechanical engineers, engineering manager, program manager, project engineer

For salary information go to: http://snipurl.com/salaryinfo

"The United States will have more than 1.2 million unfilled jobs in STEM-related (Science, Technology, Engineering and Mathemetics) fields by 2018, yet employers may be short as many as three million high skilled workers to fill those jobs."

- Dr. Vince Bertram, CEO & President of Project Lead the Way



Engineering Engineering, Manufacturing & Industrial Technology Pathway

ENGINEERING DESIGN:

The Engineering Design course allows students to dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. Students work individually and in teams to design solutions to a variety of problems using 3D modeling software and document their work in an engineering notebook.

PRINCIPLES OF ENGINEERING:

Through problems that engage and challenge, students explore a broad range of engineering topics including mechanisms, the strength of structures and materials, automation and robotics. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

These courses would benefit students interested in pursuing careers in engineering, manufacturing and construction trades.



Furniture & Cabinetmaking

► Is this course right for you?

Do you like working with wood and woodworking tools? Do you like designing and making things? If you do, then this is the course for you.

Credits // Certification

- 4th Related Math Credit
- Visual Performing & Applied Arts Credit
- College Credit (Articulation): Michigan Career & Technical Institute

Eligibility // Prerequisites

Sophomore, Junior or Senior

Career Data // Jobs

carpenter, cabinetmaker, construction worker, furniture designer, furniture restorer, wood machinist, woodworker

For salary information go to: http://snipurl.com/salaryinfo

"... taught problem-solving skills for common sense answers to complex problems. Learning how to make woodworking projects taught me the value of hard work and the satisfaction of a job well done. There is no other feeling like it!"

- Alex Hicks, Portage Alumnus



Furniture & Cabinetmaking Engineering, Manufacturing & Industrial Technology Pathway

This course provides students with hands-on experience in the production of furniture and cabinetry.

Students will complete projects designed to develop skills in group production, project design and layout, frameless construction using the 32mm system, techniques in joinery machine maintenance and use, wood identification and properties, wood turning, computer numerically controlled router programming and use, fixture design and fabrication, and millwork.

Students may take this course for two years. Second-year students will focus on advanced wood techniques that will incorporate the interests and needs of area industries and the individual interest of the student.



Heating, Ventilation & Air Conditioning

Is this course right for you?

If you like the idea of working with heating and cooling systems, then this is the course for you.

Credits // Certification

- 4th Related Math Credit
- Dual Enrollment at Kalamazoo Valley Community College - 12 College Credits

Eligibility // Prerequisites

- Seniors only; dual enrolled
- Students provide own transportation
- Students follow dual enrollment policies and the KVCC calendar requiring an extended day and loss of high school spring break.

Career Data // Jobs

boilermaker, furnace and air conditioning repair, home appliance repairer, HVAC installer/ mechanic, refrigerator repair

For salary information go to: http://snipurl.com/salaryinfo

"Job prospects for heating, air conditioning and refrigeration mechanics and installers are expected to be excellent, particularly for those who have completed training from an accredited technical school or a formal apprenticeship."

- www.bls.gov



Heating, Ventilation & Air Conditioning Engineering, Manufacturing & Industrial Technology Pathway

Students in this course are dually enrolled and have the opportunity to earn KVCC college credit in addition to high school credit.

This course provides instruction and training in the areas of heating, ventilation, air conditioning and refrigeration as well as the design, installation, and servicing of HVAC/R systems. HVAC prepares students for a technical career upon completion.



Welding

▶ Is this course right for you?

If you like to design and work with metal, then this is the course for you.

Credits // Certification

- 4th Related Math Credit
- Visual Performing & Applied Arts Credit
- Dual Enrollment at Kalamazoo Valley Community College - 6 College Credits
- College Credit (Articulation): Baker College, Ferris State University

Eligibility // Prerequisites

- Seniors only; dual enrolled
- Students must provide own transportation
- Students follow dual enrollment policies and the KVCC calendar requiring an extended day and loss of high school spring break.



Welding Engineering, Manufacturing & Industrial Technology Pathway

Students in this course are dually enrolled and have the opportunity to earn college credit from Kalamazoo Valley Community College in addition to high school credit. Students must follow all requirements of a dual-enrolled program.

Students learn to weld with the most advanced welding processes used today. Content includes the basic safe operation of the ox-fuel welding, cutting and brazing systems. Students also receive training in the basic electric arc welding processes, SMAW (arc), GMAW (mig), and equipment setup, selection and operation. Blueprint reading for welders, welding symbols and basic welder's trade math are included to prepare the student for employment in the welding trade.

"Favorite course in high school."

- Neal Dunithan, Galesburg-Augusta Alumnus

Career Data // Jobs

boilermaker, iron worker, machine tool setter, sheet metal worker, welding machine operator, welder

For salary information go to: http://snipurl.com/salaryinfo

Pathway to:

Health Sciences

- Dental Assisting
- Emergency Medical Technician (EMT)
- Fundamentals of Health Science
- Health Science
- Professional Health Science



Dental Assisting

► Is this course right for you?

If you like to assist and care for others, enjoy hands-on physical work, readily follow instructions, are organized and take pleasure in working and communicating with the public, then this may be the course for you.

Credits // Certification

- 3rd Science Credit
- Dual Enrollment at Kalamazoo Valley Community College - 9 college credits
- American Heart Safety & First Aid and CPR

Eligibility // Prerequisites

- Seniors only; dual enrolled
- Proof of immunizations
- Drug testing and background check
- Professional health attire
- Extended hours for internship
- Students provide own transportation
- Students must meet academic and attendance requirements to be recommended for internship
- Students follow dual enrollment policies and the KVCC calendar requiring an extended day and loss of high school spring break.

Career Data // Jobs

dental assistant, dental hygienist, dentist, endodontist, orthodontist

For salary information go to: http://snipurl.com/salaryinfo

"If anybody has any interest in dentistry, then this is definitely the best way to figure out if this is something you really want to do."

- Brad Phares, Portage Central Alumnus



Dental Assisting Health Sciences Pathway

EFE Program Description

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 EFE Dental Assisting program begins a prefered relationship with the KVCC Dental Hygiene program that could later impact 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.



Emergency Medical Technician (EMT)

► Is this course right for you?

Do you like to help people in emergency situations? Do you keep calm and collected during stressful conditions? If so, this is the course for you.

Credits // Certification

- 3rd Science Credit
- Dual enrollment at Kalamazoo Valley Community College - 9 college credits
- CPR/AED for the Professional Rescuer
- National Registry Basic EMT License available

Eligibility // Prerequisites

- Seniors only; dual enrolled
- Proof of immunizations
- Drug testing and background check
- Professional attire uniform
- Students provide their own transportation
- Students follow dual enrollment policies and the KVCC calendar requiring an extended day and loss of high school spring break.

Career Data // Jobs

ambulance driver, EMT instructor, field supervisor, fire service, first responder, medical service technician, paramedic, public/fire safety, rescue squad

For salary information go to: http://snipurl.com/salaryinfo

"Employment of emergency medical technicians and paramedics is expected to grow by 19% between 2006-2016, which is faster than the average for all occupations."

- www.bls.gov



Emergency Medical Technician (EMT) Health Sciences Pathway

Students in this class are dually enrolled and have the opportunity to earn both high school and college credit. 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. Upon successful completion of this course, students are eligible to sit for the national Registry Basic EMT licensing examination.

E

Fundamentals of Health Science

Is this course right for you?

If you like to assist people in need, enjoy math and science, embrace responsibility, have good oral and written skills, and get pleasure from working with others, then this is the course for you.

Credits // Certification

- 3rd Science Credit
- College Credit (Articulation): Baker College, Davenport University, Ferris State University, Kalamazoo Valley Community College
- CPR/AED for the Professional Rescuer

Eligibility // Prerequisites

- Junior or Senior
- Proof of immunizations, drug testing, and background check
- Professional health attire
- Potential fundraising or out of pocket expenses for HOSA participation
- Students provide their own transportation for job shadowing
- Extended hours for 2nd year internship

Career Data // Jobs

certified nurse assistant, home health aide, LPN, massage therapist, medical assistant, medical billing coder, medical laboratory technician, patient care associate, phlebotomist, physical therapy assistant, radiology technician, registered nurse, respiratory technologist, surgical technician

For salary information go to: http://snipurl.com/salaryinfo

"Employment of home health aides is expected to grow by 69 percent from 2010 to 2020, much faster than the average for all occupations."

- www.bls.gov

Fundamentals of Health Science Health Sciences Pathway

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



dependable, well-motivated, and show a sincere interest in health care.

Professional Health Science (2nd year option)

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 CPR/AED and medical terminology instruction may receive articulated college credit.

This second-year course represents the most advanced level of study in the health science program. Students applying to the program must meet specific achievement and performance prerequisites within either Health Science or Fundamentals of Health Science before gaining admission.



Health Science

► Is this course right for you?

If you like to help people, love math and science, enjoy high levels of activity, and are dedicated to learning and hard work, then this course is for you.

Credits // Certification

- 3rd Science Credit
- College Credit (Articulation): Baker College, Davenport University, Ferris State University, Kalamazoo Valley Community College
- CPR/AED for the Professional Rescuer

Eligibility // Prerequisites

- Junior or Senior
- Proof of immunizations, drug testing and background check
- Professional health attire
- Potential fundraising or out-of-pocket expenses for HOSA participation
- Students are required to provide their own transportation for job shadowing
- Extended hours for 2nd year internship

Career Data // Jobs

athletic trainer, dietician, massage/art/music/dance/ speech therapy, medical social worker, medical technologist, occupational therapist, pharmacist, physical therapist, physician, physician's assistant, registered nurse (BSN), speech therapist

For salary information go to: http://snipurl.com/salaryinfo

"I had an internship in the Emergency Room and just seeing the different health care professionals all working together to have a smooth operation was really phenomenal."

- Amira Saad, Alumna



Health Science Health Sciences Pathway

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.

Professional Health Science (2nd year option)

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 CPR/AED and medical terminology instruction may receive articulated college credit.

This second-year course represents the most advanced level of study in the health science program. Students applying to the program must meet specific achievement and performance prerequisites within either Health Science or Fundamentals of Health Science before gaining admission.
Pathway to:

Human Services

- Cosmetology/Barbering
- Law Enforcement
- Teacher Academy

Human Services Pathway



Cosmetology/Barbering

Is this course right for you?

Do you love working with hair, have an artistic flair, and enjoy working with people? If so, this is the course for you.

Credits // Certification

- Visual Performing & Applied Arts Credit
- Cosmetology Licensure available
- College Credit (Articulation): Ferris State University

Eligibility // Prerequisites

- Junior (2 year obligation)
- Cosmetology Hours: 12:30 4:30 pm
- Barbering Hours: 12:30 5:30 pm
- 240 summer clock hours for Juniors required
- Dress Code



Cosmetology/Barbering Human Services Pathway

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

Career Data // Jobs

barber, beautician, cosmetologist, hair stylist, manicurist

For salary information go to: http://snipurl.com/salaryinfo

". . . wonderful opportunity to get a head start on life."

- EFE Promotional DVD

"I can learn skills with my hands. I learn the skills like the back of my hand."

- Lauren Robinson, Alumna

Human Services Pathway



Law Enforcement

► Is this course right for you?

Do you have what it takes (honor, integrity, good moral principles, physical coordination, problem-solving skills, and a fine eye for detail) to be a law enforcement officer? If so, this course is for you.

Credits // Certification

- College Credit (Articulation): Baker College, Davenport University, Ferris State University, Kalamazoo Valley Community College
- First Aid & CPR Training

Eligibility // Prerequisites

- Junior or Senior
- Dress Code
- Hair Requirement: Males no longer than 1¹/₂", Females - hair tied back
- Unlawful behavior may exclude/remove student from program

Career Data // Jobs

bailiff, corrections officer, detective, FBI agent, fire fighter, fire inspector, forensics, jail guard, judge, lawyer, parking enforcement, police officer, security person

For salary information go to: http://snipurl.com/salaryinfo

"The Law Enforcement EFE program made me realize how fun and interesting it is to be a police officer. It also showed me KDPS is a great department full of great people. This program put me on the path to where I am today, a KDPS PSO."



Law Enforcement Human Services Pathway

This unique program features a Kalamazoo Public Safety officer as the instructor and also includes numerous Public Safety Professionals as guest speakers from throughout the field including local, state, county and federal officials.

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 and police academy standards, as well as current college curriculum.

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

* Partnered with Kalamazoo Department of Public Safety.

- PSO Devin Palmer, EFE Law Enforcement Alumnus





Is this course right for you?

If you like to work with young people and have thought about teaching as a career choice, then this is the course for you.

Credits // Certification

- Visual Performing & Applied Arts Credit
- College Credit (Articulation): Central Michigan University

Eligibility // Prerequisites

- Junior or Senior
- Appropriate internship attire



Career Data // Jobs

assistant principal, college professor, educational consultant, educational coordinator, head start teacher, paraprofessional, principal, school psychologist, speech therapist, teacher, teacher's aide, technical assistant

For salary information go to: http://snipurl.com/salaryinfo

"This class has done so much for me. It has prepared me for...when I am at WMU and how it really feels to be working with kids all day. Because of this class, I found confirmation that being a teacher is really what I want to do." **Teacher Academy** Human Services Pathway

The Teacher Academy is designed to introduce students to the various careers in the Education and Training Career Cluster. Students participate in a field-based internship that provides students with hands-on experience working in a prekindergarten, elementary or middle school classroom. In addition, students will learn the necessary background knowledge of child development and principles of effective teaching through a hybrid program of learning which may include online assignments, class meetings, extended research projects, field trips and interviews. Students work under the joint direction of an EFE instructor and exemplary teachers 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 two years.

- Abigail, Kalamazoo Central Almunus

Pathway to: Natural Sciences & Agriscience

- Animal Technology
- Conservation Biology
- Veterinary Science



Natural Sciences & Agriscience Pathway

Animal Technology

Is this course right for you?

If you know you would like a career working with animals and would like hands-on experiences in animal-related fields, then this course is for you.

Credits // Certification

- 3rd Science Credit
- College Credit (Articulation): Davenport University

Eligibility // Prerequisites

- Sophomore, Junior or Senior
- Professional attire

Career Data // Jobs

animal breeder/trainer, animal caretaker, animal groomer, animal husbandry, animal nutritionist, animal scientist, equine trainer/ boarder, farmer, rancher, veterinarian, veterinary assistant/ technologist

For salary information go to: http://snipurl.com/salaryinfo

"Animal Tech has helped me decide what I want to do as a career working with animals."



Animal Technology Natural Sciences & Agriscience Pathway

Animal Technology is an introduction to the basic care and management of companion animals including cats, dogs, pocket pets and exotic animals. This course also focuses on the production of animals such as horses, sheep, goats, cattle and pigs; for enjoyment or for food and fiber products.

Topics include the anatomy, health, reproduction and nutritional requirements of animals. Students gain a foundation to better care for their own animals, raise animals for their personal use or for pursuing careers in the veterinary, animal science, food/fiber or agribusiness fields.

Students participate in job shadowing experiences, take part in field trips and learn from guest speakers. This is a laboratory-based class and involves hands-on use of animal equipment and animal dissections.

- Anonymous

Natural Sciences & Agriscience Pathway



Conservation Biology

► Is this course right for you?

If you want a career in the sciences working in the area of Natural Resource Conservation and working with professionals in the natural environment, this course is for you. This course will involve studying animals, plants and their environments in their natural setting.

Credits // Certification

 College Credit (Articulation): Davenport University

Eligibility // Prerequisites

- Sophomore, Junior or Senior
- Dress appropriately for outdoor work

Career Data // Jobs

arborist, biologist, botanist, conservation officer, ecologist, forestry technician, hatchery manager, land use planner, microbiologist, soil scientist, watershed director, wildlife animal control technician, wildlife biologist

For salary information go to: http://snipurl.com/salaryinfo

"Along my path to becoming a Wildlife Biologist, I started with a strong education base in science and math continuing on to a college degree in Wildlife Sciences. I collected as many field work experiences as possible, and I took every opportunity to learn about the tools of the trade. This program is a great way to jumpstart your career experience and build the skills that will help you become a stronger candidate in this profession. I wish I had a class like this when I was in high school."



Conservation Biology Natural Sciences & AgriScience Pathway

This program introduces students to the exciting careers in Natural Resource Conservation and Wildlife Biology. This laboratory/fieldbased 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.

- Lauren Dahl, Wildlife Biologist



Is this course right for you?

If you like to take care of animals and work with animal healthcare, then this is the course for you.

Credits // Certification

- 3rd Science Credit
- College Credit (Articulation): Davenport University

Eligibility // Prerequisites

- Seniors only
- Successfully passed biology
- Dress code
- Students provide own transportation
- Students must meet academic and attendance requirements to complete an internship

Career Data // Jobs

life scientist, livestock inspector, veterinarian, veterinary assistant

For salary information go to: http://snipurl.com/salaryinfo

"It's a great program that is taught by an actual veterinarian. When in EFE, you learn things that you wouldn't in a traditional classroom setting."

- Megan Richardson, Alumna



Veterinary Science Natural Sciences & Agriscience Pathway

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

Theatre Technology Work-Based Learning





Theatre Technology

Is this course right for you?

If you want to work side by side with professionals in technical theatre, then this course is for you.

Eligibility // Prerequisites

- Senior
- Dress appropriately for work
- Students provide their own transportation
- Hours extended beyond school day
- Application process

Career Data // Jobs

box office manager, costume designer, director, lighting designer, scenic carpenter, scenic designer, scenic painter, stage manager, technical director

For salary information go to: http://snipurl.com/salaryinfo

"Now at NYU studying technical theatre, I realize just how much the EFE Theatre Technology program taught me."

- Bridin Clements, Alumna



Theatre Technology Arts & Communication Pathway

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



Work-Based Learning

Work-Based Learning

Work-based learning helps students understand how course content applies to their future and allows students to interact with employees/employers to better understand the nature of work and opportunities available.

Cooperative Education (CO-OP)

11th and 12th-grade EFE students can earn while they learn through on-the-job training. This is a capstone experience for students to work in a job related to their EFE class. Applications are available in the guidance office at each school.

Apprenticeship

Employers sponsor students through the Bureau of Apprenticeship Training. Paid experience integrates classroom and work-based learning. Upon completion of high school, the student continues the apprenticeship with the employer and with related post-secondary training. Applications are available in the guidance office at each school.

Internships

Second-year EFE students in certain programs may access advanced training in the workplace as part of the curriculum. Some one-year programs also provide this opportunity in the second semester. These experiences may be unpaid or paid.

Field Trips

Many EFE students participate in field trips to area businesses related to their program. This allows the students to observe the work environment in person and understand what opportunities are available in that career.

Job Shadowing

Students spend time at local businesses observing working conditions and skill requirements. All EFE students have an opportunity to participate in a job shadowing experience.



Students involved in Work-Based Learning:

- Are better prepared for future employment and promotion
- May earn money to support future goals
- Have improved attendance and better grades
- Are more interested in additional education and training
- Develop better problem-solving skills and interpersonal skills
- Are more goal-oriented
- Better understand real-life issues
- Have increased focus and purpose

The proper balance between classroom and work-based experiences results in high academic and technical achievement.



Education for Employment

Participating Districts

- Climax-Scotts Community Schools
- Comstock Public Schools
- Galesburg-Augusta Community Schools
- Gull Lake Community Schools
- Kalamazoo Public Schools
- Kalamazoo Regional Educational Service Agency
- Kalamazoo Valley Community College
- Parchment School District
- Portage Public Schools
- Schoolcraft Community Schools
- Vicksburg Community Schools

Also serving non-public and home-schooled students who reside or attend school in Kalamazoo County.

For Further Information Contact:

Education for Employment Kalamazoo RESA 1819 East Milham Avenue Portage, MI 49002 Phone: 269-250-9300 or contact your high school counselor or visit us at www.kresa.org/efe



Notice of Non-discrimination: It is the policy of Kalamazoo Regional Educational Service Agency that no discriminating practices based on gender/sex, sexual orientation, race, religion, height, weight, color, age, national origin, disability, genetic information or any other status covered by federal, state or local law be allowed during any program, activity, service or in employment. The following positions at Kalamazoo RESA have been designated to handle inquiries regarding the nondiscrimination policy: Human Resources Administrator, Tom Zahrt; Assistant Superintendents, Margaret McGlinchey & Laurie Montgomery. Contact information: 269-250-9200, 1819 E. Milham Ave, Portage, MI 49002.







STUDENT APPLICATION **KALAMAZOO RESA EDUCATION FOR EMPLOYMENT**

Part I: To be completed by the student and parent/guardian.

Student Name		Gender (please check one)		Date of Birth	Next School Year Grade Level	
		Male	Female			
Home School	High School of Residence	Home Phone Number	Parent/Gu	ardian Name	Phone Number	
Home Street Address		City	ZipCode	Email Address		
Transportation (if EFE program is offsite)						
	provide his/her own transportation to t			Yes or No		
Will the student need	to ride the bus to/from the home school	o this off campus class next fall? Yes or No (dependent upon local school distri		upon local school district policy)		

PATHWAY AND PROGRAM SELECTION

2nd YEAR STUDENT:

□ This is my first year in the selected program

□ I am a returning 2nd year student in this program* (*requires teacher approval*) *EFE Teacher Approval Required:_

Teacher's Signature

(One application must be filled out for each EFE program.)						
Arts & Communication	Engineering, Manufacturing &	Health Sciences				
Art & Design Career Skills	<u>Industrial Technology</u>	□ Dental Assisting (Seniors Only)				
Digital Video Production	□ Automotive Technology	□ Emergency Med Tech (EMT)(Seniors Only)				
□ Photography/Digital Imaging	□ Aviation Technology	□ Fundamentals of Health Science				
□ Radio Broadcasting	Computerized Manufacturing	□ Health Science				
-	□ Construction Trades	□ Professional Health Science (Seniors only;				
Business, Management, Marketing	Drafting Technology – Architectural	2 nd year Health Science or 2 nd year Fund. of Health Science students only)				
<u>& Technology</u>	Drafting Tech - Mechanical/Technical					
□ College Accounting	□ Electrical Technology (Seniors Only)	Human Services				
□ Banking & Finance	□ Electronics & Robotics	\Box Barbering				
□ Computer Technology	□ Engineering	□ Cosmetology				
□ Culinary Arts	□ Furniture & Cabinetmaking	□ Law Enforcement				
□ Hotel, Restaurant & Travel Mgmt.	□ Heating, Ventilation & A/C (Seniors Only)	□ Teacher Academy				
	□ Welding (Seniors Only)					

Natural Resources & Agriscience

□ Animal Technology □ Conservation Biology □ Veterinary Science (Seniors Only)

APPROVAL OF APPLICATION

I/we understand that our daughter/son is applying for a career and technical education program offered by local schools through the Kalamazoo County Education for Employment consortium and that if she/he is accepted:

- 1. Daily attendance is <u>REQUIRED</u>.
- 2. Students will be responsible for following the rules established by the EFE instructor. Failure to do so can result in removal.
- 3. Transportation may be the responsibility of the student if the local school does not provide transportation.
- 4. The sending school is making a financial commitment and students are expected to commit to a full-year program.

I have read the attached information about the program, including the Special Requirements sheet, and give my approval for my son/daughter, ____ ____, to enroll in the above program.

(Name of student)

Parent/Guardian Signature

Student Signature

Date

Part II. To be completed by the student.

WHY SHOULD YOU BE ACCEPTED INTO THE EFE PROGRAM?

Instructions: Explain why you want to take the EFE class and the reason(s) you feel you should be accepted. The text may be handwritten or computer generated as an attachment. Please limit the content to 250 words or less.

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For Further Information,

contact: Your High School Counselor

> or visit us at: www.kresa.org/efe

or on Facebook: www.facebook.com/efekresa

Education For Employment

Kalamazoo RESA • 1819 East Milham Avenue • Portage, MI 49002-3035 • 269-250-9300