

#craft your future

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ELKHART AREA CAREER CENTER

2019-2020
COURSE
DESCRIPTION
GUIDE



BILL KOVACH
DIRECTOR

Hello. The Elkhart Area Career Center (EACC) serves juniors and seniors from 9 Indiana school districts and one Michigan school district totaling 16 high schools both public and private. Traditionally over 1000 high school students enroll in 31 half-day programs at EACC and have been since 1972. Every program from automation and engineering technology to commercial photography to auto collision to veterinary careers includes college credit through Ivy Tech Community College and Vincennes University. Many programs set students up on a path to earn certificate level credentials and some even put students on a path to earn an associate's degree upon graduating high school through our early college offerings.

In addition, EACC students have the opportunity to earn industry recognized certifications to give themselves a better opportunity for their futures in their chosen career fields. Students set themselves up to earn more income and start at higher levels upon graduation. All programs also offer work-based learning opportunities such as job shadowing, clinicals, and internships. Students can transfer their experiences into long-term careers or continue on in the summer.

EACC hosts an employability panel within the career clusters lead by panels of industry leaders, a job fair where students actually apply for available positions, and open mock interviews that are often real interviews. The opportunities for the juniors and seniors at EACC are unmatched elsewhere. All students can accomplish much more than a high school diploma, and that is exciting!

Students who choose EACC become motivated, focused, career and postsecondary oriented, and end up becoming valuable and productive young citizens who craft their futures.

Dr. William E. Kovach, Director

Choose one of **32 courses** from our **7 career clusters** listed below to get you closer to your **career goals**.

- COMMUNICATION/ARTS/MEDIA
- CONSTRUCTION
- HEALTH OCCUPATIONS
- HUMAN SERVICES
- MANUFACTURING & ENGINEERING
- PUBLIC SAFETY
- TRANSPORTATION

We even offer **academic courses** to help you **save time and money** while you work towards those goals.



PARTICIPATING SCHOOLS

- | | |
|------------------|-------------------|
| Bremen | NorthWood |
| Concord | Penn |
| Elkhart Central | Edwardsburg |
| Elkhart Memorial | Bethany Christian |
| Goshen | Clinton Christian |
| Jimtown | Elkhart Christian |
| Mishawaka | Academy |
| Northridge | Mishawaka Marian |

WHY WAIT?
EARN COLLEGE CREDIT IN HIGH SCHOOL



Courses OFFERED

Each of these courses qualifies as 6 elective classes for Core 40, Academic and Technical Honors Diplomas.

If you are interested in any of our courses please talk to your guidance counselor.

COMMUNICATIONS/ART/MEDIA

AUDIO/VIDEO PRODUCTION 1 & 2

COURSE OVERVIEW: 1ST YEAR

(DOE COURSE: RADIO & TELEVISION I-5986)

- Students will gain working knowledge of the basic techniques, skills, and professional courtesy used in audio/video careers
- Students will focus on creating concepts, scripts, production, and editing audio/video using professional industry techniques and equipment

COURSE OVERVIEW: 2ND YEAR

(DOE COURSE: RADIO & TELEVISION II-5992)

- Familiarize students with the fundamental principles of radio program production, recording, editing, interviewing, & microphone techniques
- Students will get practical experience, in-field production, video editing, and live studio production
- Students will assist in the daily operations of closed-circuit TV channel 24 and an HD radio station
- Prerequisite: Audio/Video Production 1

CAREER FOCUS

- Students will be prepared for entry-level employment in broadcast television, broadcast radio, or pursue film and audio/video production for the Internet and other media outlets

Earn up to 9 college credits

1st year costs= \$80

2nd year costs= \$80

COMMERCIAL PHOTOGRAPHY 1 & 2

COURSE OVERVIEW: 1ST YEAR

(DOE COURSE: COMMERCIAL PHOTOGRAPHY-5570)

- Introduction to the fundamentals of photography and lighting
- Students will learn useful work flows and current software, such as Adobe Photoshop CC and Adobe Lightroom CC
- Develop an understanding of professional level equipment and studio practices
- Students will become proficient in content creation & problem solving

COURSE OVERVIEW: 2ND YEAR

(DOE COURSE: GRAPHIC DESIGN & LAYOUT 5550)

- Students will practice creating content for use with interactive media
- Build a photography portfolio showcasing a diverse range of photography skills
- Students will be introduced to the foundations of web design and web programming
- Work with community leaders to produce content for real world projects
- Prerequisite: Commercial Photography 1

CAREER FOCUS

- Students will be prepared to attend college or art school, work in a photography studio, or begin a freelance career

Earn up to 3 college credits

Certifications available

1st year costs= \$150

2nd year costs= \$125

GRAPHIC DESIGN 1& 2

COURSE OVERVIEW: 1ST YEAR

(DOE COURSE: GRAPHIC DESIGN & LAYOUT-5550)

- Learn about typography, color theory, electronic illustration and photo manipulation
- Learn the basic functions of Adobe Creative Cloud software, such as Photoshop, Illustrator, and InDesign
- Create layouts for posters, magazine covers, logos, billboards, editorials, and more
- Produce an exciting and creative portfolio that will be used to gain employment and/or acceptance into an art college
- Participate in nationally-recognized art/design competitions

COURSE OVERVIEW: 2ND YEAR

(DOE COURSE: GRAPHIC IMAGING & TECHNOLOGY-5572)

- Create professional multi-page graphic designs such postcards, greeting cards, brochures, calendars, and more
- Explore animated web banners and website design
- Work with actual clients and get paid for your designs
- Continue adding college-level work to your portfolio
- Prerequisite: Graphic Design 1

CAREER FOCUS

- Students will be prepared to attend college or art school, gain immediate entry-level employment in the graphic design field, or begin a freelance career

Earn up to 9 college credits

Certifications available

1st year costs= \$28

2nd year costs= \$3

Art competition entry fees \$5-\$25 per entry

INTERACTIVE MEDIA

COURSE OVERVIEW

(DOE COURSE: INTERACTIVE MEDIA-5232)

- Learn about marketing and advertising for small business
- Learn the basics of web design
- Learn how to create social media advertising campaigns, using platforms such as LinkedIn, Facebook, Pinterest, YouTube, etc.
- Learn about email blasts and other forms of mass communication
- Create content (visuals, animation, video, etc.) for web, social media, email blasts, etc.
- Prerequisite: Graphic Design 1 or Commercial Photography 1

CAREER FOCUS

- Students will be prepared to attend college or art school, gain immediate entry-level employment as content creators

Instructor Approval Required

Earn up to 3 college credits

Certifications available

Costs= \$75

Art competition entry fees \$5-\$25 per entry

CONSTRUCTION

CONSTRUCTION TRADES 1 & 2

COURSE OVERVIEW: 1ST YEAR

(DOE COURSE: CONSTRUCTION TRADES I-5580)

- Train in a lab with state-of-the art power tools and power equipment with highly skilled instructors and assistants totaling nearly 100 years of combined experience
- Covers every major construction career area: carpentry, residential wiring, residential plumbing, concrete, and many others

COURSE OVERVIEW: 2ND YEAR

(DOE COURSE: CONSTRUCTION TRADES II-5578)

- Completion of building a residential home
- Use the latest construction materials and construction techniques to meet today's building codes and energy efficiency requirements of the home building industry
- Prerequisite: Construction Trades 1

CAREER FOCUS

- Students will be prepared for immediate employment in the construction field and/or further education

Certifications available

IKOR Apprenticeship Training

1st year costs= \$125 (uniforms and basic hand tools)

2nd year costs= \$50-70 (hard hats, uniform replacement)

PUBLIC SAFETY

*CSI: CRIME SCENE INVESTIGATION

COURSE OVERVIEW

(DOE COURSE: CRIMINAL JUSTICE II ADVANCED-5824)

- Introduction to the investigation process and solution of crimes
- Specialized classroom and lab experiences based on skills used in CSI
- Develop skills to identify and secure a crime scene, sketch and document a crime scene, and collect and package evidence
- Categorize evidence such as fingerprints, tool marks, and DNA to solve a crime
- Train utilizing hands-on strategies collecting evidence and participating in crime scene investigations
- Interact with numerous law enforcement professionals whose specific knowledge and skills will provide insight into the day-to-day workings of a crime scene investigator

CAREER FOCUS

- Students will be prepared to pursue further education in the crime scene investigation field or a public safety/military service career

Earn up to 18 college credits and early college certificate

Certifications available

Costs= \$100

EMT: EMERGENCY MEDICAL TECHNICIAN

COURSE OVERVIEW

(DOE COURSE: EMERGENCY MEDICAL SERVICES-5210)

- Develop fundamental skills needed for the emergency medical services profession
- Learn lifesaving CPR techniques and first aid care
- Recognize, manage, and apply scene information and patient assessment to guide emergency management of the sick and injured patients
- **Seniors Only**

CAREER FOCUS

- Students successfully completing this program will be eligible to sit for the National Registry EMT exam and the Indiana Psychomotor exam leading to EMT certification, which will allow students to gain entry level positions as an EMT for an ambulance/fire service as well as ED Tech positions in the Emergency Department

Earn up to 7.5 college credits

Certifications available

Costs= \$100+uniform pants and shoes

EMT certification exam= \$80

FIREFIGHTING

COURSE OVERVIEW

(DOE COURSE: FIRE & RESCUE I-5820)

- Classroom and hands-on experience with course completion state certification
- Develop specialized skills applicable to those used in today's fire service
- Interact with local career and volunteer firefighters from area departments
- Develop life-long life skills

CAREER FOCUS

- Students will be prepared for immediate employment as a fire fighter, further education, and/or entry into military service

Earn up to 12 college credits

Certifications available

Costs= \$150 class fee; \$90 Uniform & Supplies

*LAW ENFORCEMENT

COURSE OVERVIEW

(DOE COURSE: CRIMINAL JUSTICE I-5822)

- Develop specialized classroom training and hands-on skills which are used in the law enforcement, corrections, and public safety fields
- Experience fundamental training based upon the ILEA (Indiana Law Enforcement Academy), which provides a foundation for citizens' expectations of public safety professionals
- Acquire core skills including patrol tactics, criminal and traffic laws, traffic violations, and parking enforcement. In addition, hands-on training in arrest procedures, person searches, and building/vehicle searches will be conducted
- Integrate numerous public safety professionals (both current & retired) into curriculum to provide an excellent knowledge base for students

CAREER FOCUS

- Students will be prepared for further education at a college of their choice, or entry into the public safety / military service fields

Earn up to 15 college credits and early college certificate

Certifications available

Costs= \$100



TRANSPORTATION

AGRICULTURE POWER STRUCTURE & TECHNOLOGY (AGRICULTURE MECHANICS)

COURSE OVERVIEW

(DOE COURSE: AGRICULTURE POWER STRUCTURE & TECHNOLOGY-5088)

- This course provides theory and hands-on experiences that provide opportunities for students to develop basic knowledge and skills in agricultural mechanics
- Instructional areas include the basic fundamentals of maintaining and repairing internal combustion engines, drive components, hydraulics, pneumatics, basic electricity, basic welding, fabrication, cold metal work, and operating agricultural equipment safely
- Earn tools and scholarship money through involvement in FFA
- Great hands-on experience while developing a portfolio

CAREER FOCUS

- Students will be prepared for an exciting career in agriculture

Earn up to 6 college credits

**Earn an additional 2 High School credits for SAE
(Supervised Ag Experience)**

Costs= \$80

*AUTOMOTIVE COLLISION REPAIR

COURSE OVERVIEW

(DOE COURSE: AUTOMOTIVE COLLISION REPAIR I-5514)

- Introduction and discussion related to the fundamentals of collision repair, welding, trim and hardware, and exterior panel repair of automobiles
- Vehicle construction and terminology, collision energy management, automotive fasteners, and bolt-on replacement parts will also be covered
- Repair and/or replace steel and plastic automotive and truck body panels to pre-accident condition using professional grade tools and equipment
- Work side-by-side with experienced collision repair technicians
- Efficiently produce quality repairs in the fast-paced environment of an automotive collision repair facility

CAREER FOCUS

- Students will be prepared for immediate employment in the automotive collision repair industry, ASE certification, and/or further education

Open to Juniors and Seniors

Certifications available

Earn up to 14 college credits and early college certificate

Costs= \$80

*AUTOMOTIVE REFINISHING

COURSE OVERVIEW

(DOE COURSE: AUTOMOTIVE COLLISION REPAIR II-5544)

- Introduction and discussion related to safety and the environment, refinish equipment, and color theory, application, tinting, and blending
- MSDS, environmental laws, and material mixing
- Paint vehicles using industry-standard equipment and materials
- Work side-by-side with experienced automotive refinishing technicians
- Efficiently produce quality repairs in the fast-paced environment of an automotive refinishing facility

CAREER FOCUS

- Students will be prepared for immediate employment in the automotive refinishing industry, ASE certification, and/or further education

Open to Juniors and Seniors

Certifications available

Earn up to 14 college credits and early college certificate

Costs= \$80

*AUTOMOTIVE SERVICE TECHNOLOGY 1 & 2

COURSE OVERVIEW: 1ST YEAR

(DOE COURSE: AUTOMOTIVE SERVICE TECHNOLOGY I-5510)

- Learn 21st century skills, preventative maintenance skills, suspension, brakes, basic electrical, & alignments
- Use a hands-on approach to analyze, diagnose, maintain, and repair basic and advanced automotive systems
- Compete for tools and scholarships in organizations like SkillsUSA and Hot Rodders of Tomorrow
- Earn the opportunity to participate in AYES, a nationally-recognized organization supported by more than a dozen automotive manufacturers
- Opportunity for paid summer internships at local dealerships through AYES

COURSE OVERVIEW: 2ND YEAR

(DOE COURSE: AUTOMOTIVE SERVICE TECHNOLOGY II-5546)

- Experience entry-level apprenticeship skills in engine repair, engine management, fuel, ignition, electronic engine controls and sensors, and automotive business structure and management
- Apply what is learned on “live cars” performing real-world fixes, diagnosing, evaluating, correcting, and verifying repairs using the same tools and equipment the pros use
- Earn opportunities for on-the-job internships at area shops
- Compete for scholarships and tools worth thousands of dollars
- Prerequisite: Automotive Service Technology 1

CAREER FOCUS

- Students will be prepared for employment in the automotive service field, ASE student certifications, and/or further education

Earn up to 21 college credits and early college certificate

Certifications available

1st year costs= \$150

2nd year costs= \$125

*DIESEL SERVICE TECHNOLOGY 1 & 2

COURSE OVERVIEW: 1ST YEAR

(DOE COURSE: DIESEL SERVICE TECHNOLOGY I-5620)

- Introduce students to diesel engine operating principles and theories
- Experience hands-on training on diesel engines, fuel systems and engine electrical systems
- Practical experience using OEM diagnostic software and service information
- Compete for tools and scholarship money
- CDL licensure instruction

COURSE OVERVIEW: 2ND YEAR

(DOE COURSE: DIESEL SERVICE TECHNOLOGY II-5624)

- Introduce students to operation principles and theories of heavy-duty drive trains, brakes, steering and suspension
- Hands-on training on drive trains, brakes, suspension and steering
- Learn DOT and preventative maintenance inspection skills
- CDL licensure instruction
- Prerequisite: Diesel Service Technology 1

CAREER FOCUS

- Students will be prepared for entry level positions in the diesel service technology field, ASE certification and/or further education in the trucking, heavy equipment, agriculture and marine fields

Earn up to 30 college credits and early college certificate

Certifications available

1st year costs= \$150

2nd year costs= \$50

MOTORCYCLE/ OUTDOOR POWER TECHNOLOGY 1 & 2

COURSE OVERVIEW: 1ST YEAR

(DOE COURSE: RECREATIONAL & MOBILE EQUIPMENT I-5842)

- Develop essential core skills required to prepare for a career in small engine and motorcycle repair
- Experience and apply shop safety and customer service skills
- Earn tools and scholarship money through involvement in student organizations such as SkillsUSA, FFA, Hot Rodders of Tomorrow, and NHRA's Youth and Education Services by competing in a skill area

COURSE OVERVIEW: 2ND YEAR

(DOE COURSE: RECREATIONAL & MOBILE EQUIPMENT II-5844)

- Analyze, diagnose, and repair equipment for individuals in the community, working on real-world projects
- Participate in high-level paid internships with local companies
- Continue to earn scholarships and prizes with student organizations
- Prerequisite: Motorcycle/Outdoor Power Technology 1

CAREER FOCUS

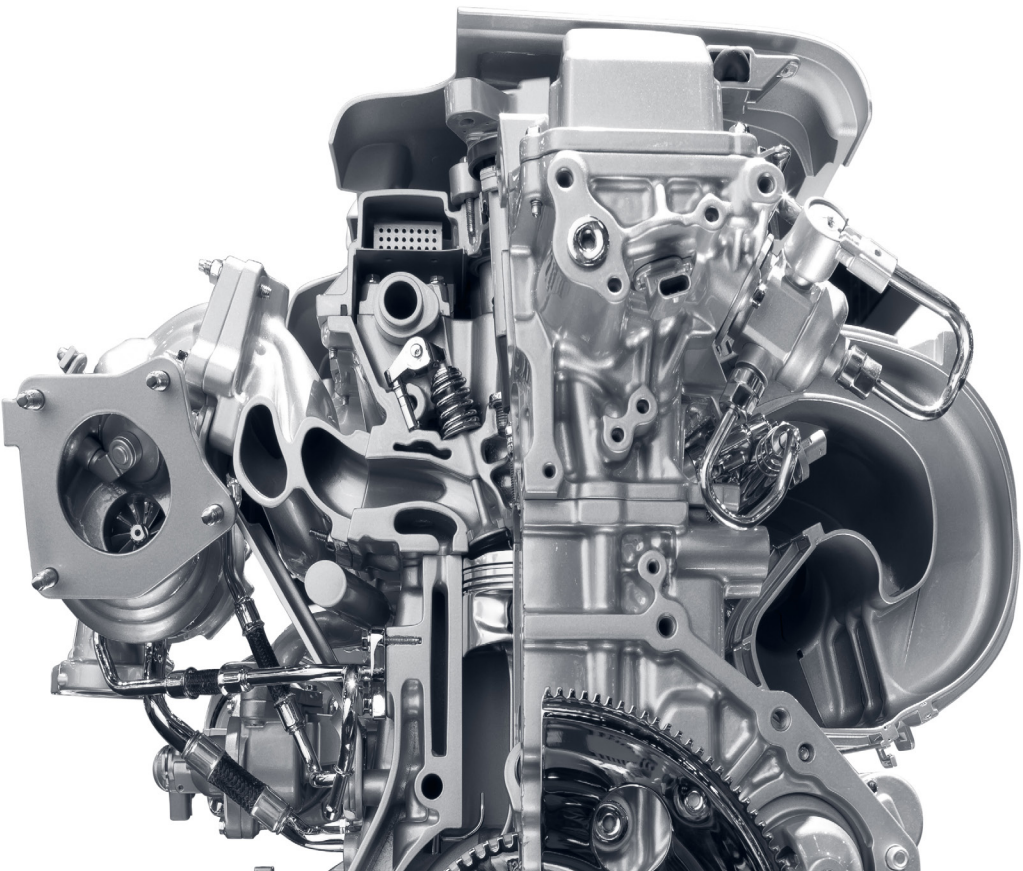
- Students will be prepared for immediate employment in small engines and motorcycle repair and/or further education

Earn up to 6 college credits

Certifications available

1st year costs= \$80

2nd year costs= \$30



HEALTH OCCUPATIONS

*CARDIOLOGY 1 & 2

COURSE OVERVIEW: 1ST YEAR
(DOE COURSE: HEALTH SCIENCE II SPECIAL TOPICS-5286)

- Cardiology focus
- Learn entry level patient care skills utilized in many healthcare environments including, but not limited to; assessment of blood pressure, pulse and respirations, assisting with activities of daily living, CPR, AED, and first aid
- Develop fundamental skills necessary to assess the electrical function of the cardiac system and report findings to the physicians for further care of patient

• Juniors only with two year program commitment

COURSE OVERVIEW: 2ND YEAR
(DOE COURSE: EMERGENCY MEDICAL SERVICES-5210)

- Develop more in-depth knowledge of the cardiac system and patient care, including a clinical phase preparing students to enter the job market as EKG Technicians
- Complete the Emergency Medical Technician certification course
- Qualify to take the Certified EKG Technician Examination through National Healthcareer Association
- Become eligible to sit for The National Registry exam for EMT certification

• Prerequisite: Early College 1

CAREER FOCUS

- Students will be prepared to gain employment as Cardiac (EKG) Technicians and Cardiac Monitor Technicians in a variety of settings and/or gain employment with an ambulance service, emergency department, and many other healthcare facilities

Earn up to 30 college credits and early college certificate

Certifications available

1st year costs= \$100+uniform pants and shoes

2nd year costs= \$100+uniform pants and shoes

EMT certification exam= \$80

CET exam= \$115

DENTAL HEALTH CAREERS

COURSE OVERVIEW
(DOE COURSE: DENTAL HEALTH CAREERS-5203)

- Hands-on experience in dental procedures and expanded functions in dental assisting
- Deliver oral hygiene instruction to both children and adults
- Develop dental terminology that will enhance practical skills
- Experience internships in a dental office
- Develop and build employability skills

CAREER FOCUS

- Students will be prepared to seek employment in a dental office and/or further education in a dental health careers program

Earn up to 15 advanced placement credits

Certifications available

Costs= \$180

INTRODUCTION TO HEALTH CAREERS

COURSE OVERVIEW
(DOE COURSE: HEALTH SCIENCE EDUCATION I-5282)

- Participate in hands-on lab experiences with an emphasis on several types of health careers
- Job interview and professional development training
- Diversity and various health and wellness concepts discussed
- Develop understanding of multiple career focuses with basic skill training

CAREER FOCUS

- Students will be prepared to concentrate on one health related career path leading into a senior-level or post-secondary program

Earn up to 6 college credits

Certifications available

Costs= \$75 Lab Fee; Scrubs approx. \$50, wristwatch with sweeping second hand, clean closed-toe shoes

*PRE-NURSING with CNA CONCENTRATION

COURSE OVERVIEW
(DOE COURSE: HEALTH SCIENCE II-NURSING-5284)

- Prepares students desiring to work as nurses with the knowledge, skills and attitudes essential for providing nursing care in extended care facilities, hospitals and home health agencies
- CNA coursework, along with Anatomy and Physiology, will be the emphasis in this program
- Individuals who successfully complete this course are eligible to apply to sit for the CNA certification exam for nursing assistants
- This course meets the minimum standards for entry into Ivy Tech's Nursing program (RN) but does not guarantee admittance into Ivy Tech's Nursing Program
- Prerequisite: Must have a GPA of 2.6 or higher, or passed Accuplacer as program ready, or passed PSAT/SAT as program ready

CAREER FOCUS

- Ivy Tech Pre-Nursing Certification (Ivy Tech Graduation) Nurses are employed in doctor's offices, clinics, hospitals, as well as many other areas
- The Ivy Tech Nursing program works very closely with local hospitals, pharmacies and clinics to be sure our students get the best education possible and the very best jobs possible.
- Students will be prepared to apply for Ivy Tech's Registered Nursing (RN) Degree Program, License Practical Nursing (LPN) Degree Program, or a Transitional Nursing Degree Program

Seniors Only: One Year Program

Earn up to 20 College Credits and early college certificate

Dementia Care and CNA Certification available

Costs= \$150.00

MEDICAL ASSISTING 1 & 2

COURSE OVERVIEW: 1ST YEAR
(DOE COURSE: HEALTH SCIENCE EDUCATION I-5282)

- Perform life-saving CPR and first aid procedures at the professional health care level
- Successfully draw blood (phlebotomy) and perform ECGs (electrocardiograms)
- Practice a variety of medical assisting skills to prepare for a career in a physician's office or clinic

• Open to Juniors and Seniors (do not need to commit to 2 years)

COURSE OVERVIEW: 2ND YEAR
(DOE COURSE: HEALTH SCIENCE II-SPECIAL TOPICS-5286)

- Learn advanced medical assisting skills
- Work with health care professionals using medical assisting skills in internship experiences
- Prepare for national certification exam to become CMA (certified medical assistant)

• Prerequisite: Medical Assisting 1

CAREER FOCUS

- Students will be prepared to seek employment as a medical assistant or office assistant in offices and clinics, and/or further their education in a medical career

Earn up to 3 college credits

Certifications available

1st year costs= \$40 lab fee, scrub uniform, clinic shoes & watch

2nd year costs= \$50 lab fee

Seniors who qualify for internships will need TB test, flu shot, and background history check

SPORTS MEDICINE

COURSE OVERVIEW
(DOE COURSE: HEALTH SCIENCE EDUCATION II-5290)

- Exposes and prepares students for health care fields related to athletics: i.e. athletic training, personal training, occupational and physical therapy, exercise science, and physical fitness
- Introduction to Health Careers will be supported by Anatomy & Physiology, Medical Terminology, First Aid, and Nutrition
- Students will be introduced to Kinesiology, Exercise Science, and Health and Wellness
- The concentration of this program will be to practice skills built on competencies learned, field experiences with real-world application, and the development of individualized plans to further in-depth knowledge of sports medicine and athletic training

CAREER FOCUS

- Students will be prepared to pursue further education at the post-secondary school of their choice in pursuit of advanced degrees in athletic training, personal training, occupational and physical therapy, exercise science, or physical fitness

Earn up to 9 college credits

Certifications available

Costs= \$100



VETERINARY CAREERS 1 & 2

COURSE OVERVIEW: 1ST YEAR
(DOE COURSE: VETERINARY CAREERS I-5211)

- Students will be introduced to the science of Biology
- Trained to provide professional support to veterinarians
- Hands-on experiences such as blood draws, animal restraining, and preparing examination rooms for veterinarians
- Students will be introduced to post-secondary opportunities in veterinary science

COURSE OVERVIEW: 2ND YEAR
(DOE COURSE: VETERINARY CAREERS II-5212)

- Continue to refine skills as a veterinarian technician
- Hands-on experiences such as grooming, lab testing, and independent scientific research
- Students will design the structure and organization of their own veterinary facility
- Opportunity for internships in local veterinary clinics that may lead to employment

• Prerequisite: Veterinary Assisting 1

CAREER FOCUS

- Students will be prepared to pursue further education to become a veterinary technician, a veterinary assistant, or a veterinarian

Earn up to 6 college credits

Certifications available

1st year costs= \$45 lab fees

2nd year costs= \$45 lab fees

HUMAN SERVICES

COSMETOLOGY 1& 2

COURSE OVERVIEW: 1ST YEAR
(DOE COURSE: COSMETOLOGY I-5802)

- Introduction to developing the skills necessary for earning the Indiana Cosmetology license including, but not limited to hair design, haircutting, hair coloring, nail care, skin care and salon business skills
- Develop the professional skills necessary to be a successful employee such as punctuality, initiative, and professional integrity
- **Juniors only**

COURSE OVERVIEW: 2ND YEAR
(DOE COURSE: COSMETOLOGY II-5806)

- Implementation of necessary skills needed to complete State Board of Cosmetology examinations
- Practice necessary practical tasks for running the EACC simulated salon
- Develop professional communication skills with clients, instructors and fellow classmates
- Learn how to problem solve salon business skills
- Prerequisite: Cosmetology 1

CAREER FOCUS

- Students will be prepared to meet the Indiana State Board Standards for Cosmetology and become a licensed professional cosmetologist

Class is 4 hours long

You must have your own transportation

Earn up to 30 college credits

Indiana Cosmetology License available

1st year costs= \$400 registration fee, \$175 for uniform & supplies

2nd year costs= \$25

*CULINARY ARTS & HOSPITALITY 1 & 2

COURSE OVERVIEW: 1ST YEAR
(DOE COURSE: CULINARY ART & HOSPITALITY I-5440)

- Learn basic sanitation and culinary theory
- Learn hands-on (practical) cooking techniques
- Preparation of soups, stocks, and sauces
- Hands-on training in a fully-equipped newly updated kitchen with professional chef instructor
- Learn basic cook techniques and basic sanitation principles
- **Juniors Only**

COURSE OVERVIEW: 2ND YEAR
(DOE COURSE: CULINARY ART & HOSPITALITY II-5346)

- Work in a fully equipped baking lab and kitchen with a professional chef instructor
- Gain work experience by preparing product for the student-run bakery, catering, and fundraising events
- Take turns working and managing student-run bakery
- Prepare foods following different nutrition and dietary guidelines
- Prepare portfolio for interviewing and learn supervisory and management skills
- Prerequisite: Culinary Art & Hospitality 1

CAREER FOCUS

- Students will be prepared to further their education in college or culinary school, or gain immediate employment in the culinary field

Earn up to 16 college credits and early college certificate
Certifications available
1st year costs= \$112 (additional cost for plus-sized uniforms)
2nd year costs= \$50

CREATIVE OUTDOOR MANAGEMENT 1 & 2

COURSE OVERVIEW: 1ST YEAR
(DOE COURSE: HORTICULTURE SCIENCE I-5136)

- Learn to identify species of plants
- Learn the common names and botanical names of plants
- Identify growth habits and differences of shade, ornamental, and evergreen trees and shrubs
- Learn maintenance techniques for private landscapes, nurseries, or grounds, such as golf courses, athletic fields, botanical gardens, or agricultural settings
- Become OSHA Agriculture Safety certified and Pest Management & Lawn care certified

COURSE OVERVIEW: 2ND YEAR
(DOE COURSE: LANDSCAPE MANAGEMENT I-5136)

- Design and draft landscape plans
- Continued learning of maintenance techniques
- Identify bacteria, diseases and management of these problems
- Learn the business aspects of this industry
- Prerequisite: Creative Landscaping 1

CAREER FOCUS

- Students will be prepared for immediate employment or further their education to become a landscape designer or architect at a 2-year or 4-year post secondary institution

Earn up to 6 college credits
Certifications available
1st year costs= \$50
2nd year costs= \$50

*EARLY CHILDHOOD EDUCATION 1& 2

COURSE OVERVIEW: 1ST YEAR
(DOE COURSE: EARLY CHILDHOOD EDUCATION I-5412)

- Create lesson plans for children 0-8 years using play-based approach
- Build health, safety and nutrition activities and environments for children 0-8 years
- Learn curriculum approaches and application in hands-on activities
- Develop fundamental knowledge of child growth and development in cognitive, physical, and emotional growth in young children
- **Juniors only**

COURSE OVERVIEW: 2ND YEAR
(DOE COURSE: EARLY CHILDHOOD EDUCATION II-5406)

- Learn what it takes to be a childcare director and/or owner
- Prepare for CDA (Child Development Associate credential)
- Develop a professional portfolio with evidence of competency of work with young children
- Build a detailed analysis of human development from infancy through adulthood
- Prerequisite: Early Childhood Education 1

CAREER FOCUS

- Students will be prepared for immediate employment in early childhood education and/or further education

Earn up to 18 college credits and early college certificate
Technical Certificate available
1st year costs= \$70 + uniform
2nd year costs= \$110 (CDA exam)



MANUFACTURING & ENGINEERING

AUTOMATION & ENGINEERING TECHNOLOGY 1& 2

COURSE OVERVIEW: 1ST YEAR

(DOE COURSE: INDUSTRIAL AUTOMATION & ROBOTICS I-5610)

- Opportunity to design and construct large scale projects that incorporate computer control, sensors, electrical circuits, and actuators used in industry (remotely operated hovercraft, automated drawbridge, robotic vehicles, etc.)
- Hands on engineering experience with industry training equipment used in advanced manufacturing. Training then applied to design projects
- Troubleshoot automated systems, diagnose problems, and design solutions using the engineering process
- College course work covers schematics, mechatronic systems, quality control, and electrical theory
- Potential to utilize classroom experience to intern with area businesses and participate in industry sponsored design projects

COURSE OVERVIEW: 2ND YEAR

(DOE COURSE: INDUSTRIAL AUTOMATION & ROBOTICS II-5612)

- Design Projects that integrate computers and mechanical systems to automate tasks
- Industrial PLC and arduino programming projects
- Program industrial robot to complete material handling tasks and perform quality checks
- Use Lean Manufacturing principles in design to improve product quality
- Potential to utilize classroom experience to intern with area businesses and participate in industry sponsored design projects
- Prerequisite: Automation & Robotics I or Mechatronics I

CAREER FOCUS

- Students will be prepared to continue their education at a 2 or 4 year postsecondary institution in an engineering or engineering technology field, or move into a career/education track position in the advanced manufacturing field

Earn up to 21 college credits

Certifications available

1st year costs= \$5

2nd year costs= \$20

CAD: COMPUTER AIDED DRAFTING 1 & 2

COURSE OVERVIEW: 1ST YEAR

(DOE COURSE: MECHANICAL DRAFTING AND DESIGN I 4836

(MECH DD I))

- Introduction to technical / mechanical drafting, architectural drafting, 3D modeling, and 3D printing

COURSE OVERVIEW: 2ND YEAR

(DOE COURSE: DOE COURSE: 3D COMPUTER ANIMATION AND

VISUALIZATION 5530 (3D CMP AN))

- Create video game quality 3D solid models and animation video game creation with The Unreal Engine
- 3D printing
- Advanced mechanical and architectural drafting
- Compete in regional, state, and national drafting competitions
- Gain real-world experience by working on projects for local companies
- Paid internships available
- Prerequisite: CAD 1

CAREER FOCUS

- Students will be prepared for placement as a CAD drafter and/or further education

Earn up to 3 college credits

Certifications available

1st year costs= \$30

2nd year costs= \$30

*MANUFACTURING TECHNOLOGY 1 & 2

COURSE OVERVIEW: 1ST YEAR

(DOE COURSE: PRECISION MACHINING I-5782)

- Operate manual machines, lathes, mills, and surface grinders
- Real-world experience working on projects for local companies
- Seven (7) NIMS certifications
- Hands-on training in a fully equipped machine shop with the latest equipment
- Polytechnic program

COURSE OVERVIEW: 2ND YEAR

(DOE COURSE: PRECISION MACHINING II-5784)

- Utilize the newest CNC mills, CNC lathe, CNC plasma cutter, and 3D printer
- Paid internships
- Seven (7) NIMS certifications
- Prerequisite: Machine Shop 1

CAREER FOCUS

- Students will be prepared for a job in the machining field with CNC programming/operation experience and/or further education in the engineering field or apprenticeship programs

Earn up to 12 college credits and early college certificate

Certifications available

1st year costs= \$0

2nd year costs= \$0

COMPUTER NETWORKING/ PC MAINTENANCE 1& 2

COURSE OVERVIEW: 1ST YEAR

(DOE COURSE: COMPUTER TECHNOLOGY SUPPORT I-5230)

- Build and troubleshoot PCs
- Install network cables and hardware in new construction
- Utilize internationally-recognized IT Essentials curriculum developed by the Cisco Networking Academy

COURSE OVERVIEW: 2ND YEAR

(DOE COURSE: NETWORKING II-SERVERS II-5257)

- Configure Cisco routers and switches
- Design and maintain network infrastructures
- Use IP routing protocols and access lists
- Utilize internationally-recognized Routing and Switching curriculum developed by the Cisco Networking Academy
- Prerequisite: Computer Networking/PC Maintenance 1 or CompTIA A+ certification

CAREER FOCUS

- Students will be prepared for CompTIA A+ and/or CCENT certifications, immediate employment as a computer/network technician, and/or further education

Earn up to 17 college credits

Certifications required for some college credits

1st year costs= \$25

2nd year costs= \$0

Certifications \$95-\$205 each exam

MECHATRONICS 1 & 2

COURSE OVERVIEW: 1ST YEAR

(DOE COURSE: INDUSTRIAL TECHNICAL MAINTENANCE I-5686)

- Prepares for high demand careers such as mechatronics technician, electro mechanical technician, maintenance technician, and manufacturing engineer.
- Learn to install, troubleshoot, and repair mechatronic systems such as pneumatics, hydraulics, electrical systems, mechanical systems, electric motors, sensors and industrial computers
- Automation/mechatronics, mechanical drives, fluid power, and welding
- Internships and industry sponsored design projects available

COURSE OVERVIEW: 2ND YEAR

(DOE COURSE: INDUSTRIAL TECHNICAL MAINTENANCE II-5688)

- Advanced application of mechatronic systems
- Learn to maintain/troubleshoot advanced manufacturing equipment such as CNC machines, robotic arms, and electric drives
- Electrical applications, mechatronics, industrial robotics, and manufacturing processes
- Internships and industry sponsored design projects available
- Prerequisite: Mechatronics I or Automation & Robotics I

CAREER FOCUS

- Students will be prepared for a 2-year or 4-year post secondary institution in an engineering or engineering technology field, or move into a career/education track position in the advanced manufacturing field

Earn up to 30 college credits/technical certificate

Certifications available

1st year costs= \$10

2nd year costs= \$10

*WELDING TECHNOLOGY 1 & 2

COURSE OVERVIEW: 1ST YEAR

(DOE COURSE: WELDING TECHNOLOGY I-5776)

- Develop the fundamentals of stick arc welding, mig and tig welding, as well as other innovative welding techniques
- Begin earning an AWS SENSE Welding Certification using industry level equipment
- Start your Associates degree in Early Welding Technology

COURSE OVERVIEW: 2ND YEAR

(DOE COURSE: WELDING TECHNOLOGY II-5778)

- Participate in exciting internships with local manufacturers
- Finish an AWS SENSE Welding Certification using industry level equipment
- Prepare for welding test, which is required for job placement in the welding industry
- Prerequisite: Welding 1

CAREER FOCUS

- Students will be prepared for immediate employment as a welder and/or further education at a welding-associated technical school or college

Earn up to 15 college credits and early college certificate

Certifications available

1st year costs= \$63

2nd year costs= \$15 certification fee



OPPORTUNITIES

The Elkhart Area Career Center provides an abundance of opportunities for honorary recognition, competition, internships, awards, and scholarships.

NATIONAL TECHNICAL HONOR SOCIETY

WHAT IT IS ALL ABOUT

- NTHS is a national organization founded to reward excellence in career and technical education, to encourage scholastic excellence and skill development and to cultivate a stronger, more positive image for career education
- The goal of National Technical Honor Society is to see that deserving career technical education students be recognized and that the local community becomes aware of the talents and abilities of the people who choose career technical education as a pathway to a successful future

HOW TO APPLY

- Students are nominated by their instructors and must have 3 or less absences and tardies and have an “A” in their Career Technical Education Program at the end of first semester
- An induction ceremony is held in the spring and parents, students, family members and friends are invited

INTERNSHIPS

WHAT IT IS ALL ABOUT

- Consists of on-the-job training for professional careers in the EACC program you choose
- Exchange experiences between the student and employer
- Used to determine if you have an interest in a particular career and to gain high school credit towards the Technical Honors diploma
- Find permanent, paid employment with the companies in which they interned
- May be paid or non-paid depending on the company policies

SkillsUSA

STUDENT BENEFITS

- SkillsUSA offers materials and programs to help students develop as individuals, employees, and citizens
- Teaches teamwork, leadership and reinforces industry standards within each individual contest category
- Students advance through district, regional and state competitions
- These contests give students a way to test their skills
- Opportunities to network, potentially meeting future employers

AWARDS

- Winners at the state and national levels can win medallions, scholarships, tools, leadership development materials & other awards
- Offering \$1 million in scholarships annually
- Every year at the national level a very select few are chosen to compete internationally

Annual Dues: \$15 per student

Additional information available from instructors

AWARDS & SCHOLARSHIPS

ANNUAL AWARDS

- The top Michigan CTE students are recognized by Lewis Cass Intermediate School District with a possibility of scholarship money
- Teachers Choice Award: nominated by their EACC instructor, because they have proven themselves in an extraordinary way

ANNUAL SCHOLARSHIPS

- Shane Miller Memorial Scholarship
- Larry Carroll Memorial Scholarship
- Basil S. (Ethel L.) Turner Scholarship
- And many others.

Deadlines and requirements may vary

ACADEMICS

In addition to the courses offered at the Elkhart Area Career Center, students can also enroll in our college-level English class. Students can earn free college credit College English. Students meet twice a week for 45 minutes during the entire school year.

COLLEGE ENGLISH (ENG111)

COURSE OVERVIEW

- Earn three college-level English credits that will transfer to a 2-year or 4-year post-secondary institution
- Earn two high-school English credits
- Develop abilities to think, organize, and express ideas clearly and effectively in writing
- Write a research paper
- Develop critical reading and thinking skills
- Year-long course taught by an Ivy Tech Adjunct faculty member and meets twice a week
- Small classes provide individual attention

HOW TO APPLY

- **Prerequisites:** Must be attending the EACC as a student in one of the program courses and have passed a standardized test with one of the following scores:

<u>Writing</u>	<u>Reading</u>
Accuplacer 80 (Sentence Skills)	Accuplacer 76
ACT English 17	ACT 18
PSAT 26	PSAT 25
SAT 460	SAT 460

If needed, the EACC will administer the Accuplacer test.



OUR BUSINESS PARTNERS

1st Source Bank	Crossroad's Food Animal Veterinary Service	Furriion USA	LaSalle Bristol	Paragon Home Health Care	Tenneco
ADEC	Cummins	G4 Tool & Technology	LeMaster Steel	Patrick Industries	The Graphics Factory
Advanced Imaging	D&W Incorporated	Gates Automotive	LGLK - Lower Great Lakes Kenworth, Inc.	Penske	The Salon by InStyle/Inside JCPenney
Airgas USA	Daman Products	GDC Corp	Lift & Move USA	Performance Car Star Collision	The Vine
Alexander Dennis	Days Corporation	Genesis Products	Lincoln Electric	PerMar Security Services	Thor Motor Coach
Always Best Care	Dec-O-Art	Glass Doctor	Lippert Components	Perry Automotive	Thor Motor Coach RV
Ameri-Kart Corp	Dexter Axle	Goodwill	Lithotone	Phisz Design	Todd Allen Design
American Hauler	Discount Tire	Goshen Animal Clinic	Little Saints Daycare	Pilkington North America	Tom Naquin Chevrolet
Ancon Construction	Dometic	Goshen City Fire	Loader Parts Source	Premier Nursing	Tri-County Ambulance Service, Inc.
Appletree Learning Center	DJ Construction	Goshen Health	Lochmandy Motors	Premium Concrete Services, Inc.	Triangle Rubber & Plastics
Ascendant Orthopedic Alliance	Dr. Emily Stout Dentistry	Goshen Stamping	Lowe's	Prime Time Mfg (division of Forest River)	Trilogy Health Services
Ashley Ward	Drive and Shine	Granger Community Church	Lozier Corporation	Pro Resources	Triple P
Ashley Ward/FiTech	Dynamic Aerospace & Defense	Great Clips	Lycro Products	Pro Services	Troyer's
AutoCorrect Body Shop	Dynamic Metals	Greencroft	Mahoney Family Dentistry	Proforma	Truck Accessories Group (TAG)
AYES	Early Childhood Alliance	Greencroft Goshen	Manchester Tank	Quality Import Service	Truck Centers, Inc.
B&B Industries	Eby Ford	Greenmark Equipment	Maple City Collision Services	Quality Plastics and Engineering	Tuscany - Elkhart
Bailhome Services & Construction	Elkhart Brass	Growing Kids	MapleTronics	Rainbow Lake Construction	UFP Granger, LLC #218
Bane-Welker Equipment, LLC	Elkhart Chamber of Commerce	Guardian Angel Daycare	Marbach Tooling	Regal Mold and Die	US Air Force
Beacon Health Systems	Elkhart Childcare	Gurley Leep Automotive	Martin's Supermarket	Reschcor	US Army
Beacon Home Care	Elkhart City Fire Department	Hair Crafters	Master Automotive	Residence at Waterford	US Cargo (Division of Forest River)
Bearcat	Elkhart City Police Department	Happy Tails	MasterBrand Cabinets	Rieth Riley	US Marines
Benteler Automotive	Elkhart County Emergency Mgmt	Harold Zeigler Ford	Maxim Healthcare Services	Riggs Outdoor Power	US Navy
Better Way Partners	Elkhart County Sheriff	Hartnett Animal Hospital	McCormick Motors	Rollie Williams Paint	Valley Screen Process
Better Way Products (div. of Patrick Industries)	Elkhart County Sheriff / Crime Lab	Heart City Health	MDC Goldenrod	Salem Pre-school	Vision Machine Works
Better World Books	Elkhart Development Corp. - EDC	Heartland RV	Medallion Plastics	Sam's Club	Walmart Automotive Department
Bricklayers Apprenticeship Program	Elkhart Emergency Physicians	Hill Truck Sales	Meijer's	SAS Tire & Auto Service	Walnut Hill Early Childhood
Bristol Fire Department	Elkhart Environmental Center	Home Instead	Menard's	Satellite Industries	Weichert Realtors
C&C Distributors	Elkhart Fire Department	HR Collaboration Group	Mid City Supply	SB & Vicinity Electrical Joint Apprenticeship & Training	Welch Packaging
Cajun Home Improvements	Elkhart General Emergency Dept	Hull Lift Truck	Mid-States Construction	Schafer Industries	Wellfield Botanic Gardens
Calvary Preschool	Elkhart General Healthcare	Humane Society Elkhart County	Midwest Orthotics	Selking International Trucks	White Veterinary Hospital
Career Analysis	Elkhart Indian	IMKO Workforce Solutions	Miller's Health Systems	Senior1Care	Wire Design
Carpenter Company	Elkhart Oral & Maxillofacial Surgery	IN/KY/OH Regional Council of Carpenters	Monogram Comfort Foods	Sergio Corp	WorkOne
CARSTAR Tyler Collision	Elmer's Body Shop	Indiana Army National Guard	Monteith Tire	Serim Research Corporation	Worldwide Foam, LTD
Center for Animal Health	Elwood Staffing	International Cranes	Morrison Industrial Equipment	Sherwin-Williams/Geocel	WVPE
Center for Hospice Care	Emergency Communication Center	INTRATECH	MORryde International	Siemens Corporation	Wyatt Sales & Service
Century Foam	Emerson Design Studio	JAJ Enterprises	MVP - Magnum Venus Products	Signature Lanes	Yard-n-Gard
Ceres Solutions	Essenhaus	Jayco Corp	Nappanee EMS	Smoker Craft Inc.	Zeeland Lumber & Supply
Champagne Metals	Exacto Inc. of South Bend	Jessen Mfg. Inc.	Nappanee Fire Department	Snap-on Tools	Zeeland Truss & Components
Choice 1 Communications	Express Employment Professionals	Jim Stone Service	Nappanee Police Department	Specialized Staffing	Ziegler Ford
Chubby Trout	Family Angel Automotive	Jordan Automotive	NIBCO	Speedgrip Chuck Co	Zolman Tire
Church Plumbing & Heat	Fat Cam's at Garver Lake	JP Gillen & Associates	North End Cycle	Speedway LLC	
City of Elkhart Parks & Recreation	Fedore Veterinary Clinic	KemKrest	North Side Auto Parts	Spherion Staffing	
City of Elkhart Street Dept.	Feed the Children	Kessington, LLC	North Woods Village Memory Care	St. Joseph Health System	
Classic Communications, Inc.	Firefly Home Care	Key Element Innovation Engineering	Nuway Construction	Star Tool & Die, Inc.	
Cleer Vision	First Choice Auto & Tire	Keyline Sales, Inc.	O'Reilly Auto Parts	State-wide Windows	
Cleveland Fire Department	First Response DRS	Keystone/Dutchmen	Oakland Auto Tech	StoneRidge Landscaping Inc.	
Clover Machinery Movers	First State Bank	KiK Custom Products	ODIZ Safety LLC	Stoutco, Inc.	
Coach Glass	Flexco	Kingman Mobile Storage	Olive Garden	Superior Air Mgmt. Systems	
Coachmen RV (Division of Forest River)	FM Construction	Kobelco Compressors	Orion Lighting Solutions	TaigMarks	
Concord Fire/EMS	Foamcraft Inc.	Koorsen Fire & Security	Osolo Township Fire Department	TCU	
Cornerstone Christian Montessori School	Forest River Inc.	Kopf Truck Leasing	Overhead Door	Technical Professional Group, LLC	
Courtyard Healthcare Center	Foundations Child Care	Kryder's Lawnmower Sales	PalletOne	Tekmodo	
Crane Composites	Four Winds Casino	Lakeland Animal Care			



Important DATES

OPEN HOUSE

CHECK OUT OUR PROGRAMS FOR YOURSELF

- Sunday, January 20, 2019 (alternate date is Sunday, January 27, 2019)

APPLICATION DEADLINE

MAKE AN APPOINTMENT WITH YOUR GUIDANCE COUNSELOR

- Friday, March 22, 2019

STUDENT NOTIFICATION

START PREPARING FOR AN EXCITING CAREER AFTER HIGH SCHOOL

- Wednesday, April 24, 2019



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