



Career and Technical Education Programs



SHARED PROGRAMS

● **Construction Trades**

Develop basic skills related to residential construction

Learn basic carpentry skills necessary in home maintenance and construction

Apply safety procedures, basic reading of blueprints, and learned carpentry skills to build a house from start to finish during the school year

Explore different areas of residential home construction and maintenance areas from concrete, framing and finishing, cabinetry, plumbing, electrical, HVAC, etc.

- *Job opportunities: Electrician, Heating and Air Conditioning, Plumber, Framing, Roofer, Concrete, etc.*

● **Cosmetology**

Develop the skills needed to be an Indiana state licensed Cosmetologist.

- Dual Credit: Vincennes University (up to 14 possible) *COSM 100, *COSM 150
- Certifications: State of Indiana Cosmetology License

Learn basic fundamentals in hair design, nail technology, and skin care

Apply techniques on mannequins and customers from the walk in salon

Develop skills necessary to take and pass the State of Indiana Cosmetology certification

2 Locations available in Lafayette (1-year program for Seniors ONLY) and Lebanon (2-year program that starts during Junior Year). Additional fees apply for each location as they are third party training facilities.

- *Job opportunities: Licensed Cosmetologist, Barbershop, Beauty Salon*

● **Criminal Justice**

Explore various professions in Law Enforcement, Corrections, and Security.

- Dual Credit: Vincennes University (up to 12 possible) LAWE 100, *LAWE 101, *LAWE 145, *LAWE 150

Learn basic protocols of crime scene investigation, evidence collection, law enforcement policies and procedures

Explore different careers possible in law enforcement

Develop a better understanding of the complexity of crime, criminal behavior, corrections, and the legal system

- *Job opportunities: Police Officer, Dispatcher, Corrections Officer, Paralegal, Lawyer*

● **Emergency Medical Technician**

Develop the foundation for any career in healthcare with an emphasis in Emergency Medical Services.

- Dual Credit: Ivy Tech (up to 16.5 credits) HLHS100, *HLHS 101, HSPS 125, PARM 102
- Certifications: AHA Healthcare Provider CPR, EMR, and Nationally Registered EMT

Apply lifesaving skills practiced in class and on ambulance ride outs

Perform skills such as: airway management, splinting of fractured bones, actions to take during a respiratory emergency, CPR, and vital signs.

- *Job opportunities: EMT in the hospital or pre-hospital setting*

● **Health Careers, pre-Nursing**

Develop the foundation for any career in healthcare with an emphasis on nursing.

- Dual Credit: Ivy Tech (up to 11 credits) HLHS 100, *HLHS 101, *HLHS 107
- Certifications: Certified Nursing Assistant (CNA), AHA BLS CPR Certification for Healthcare Providers, AED

Explore various careers in the healthcare industry

Provide hands-on nursing assistant skills to residents in a long-term care facilities during clinical rotations

Develop job readiness and leadership skills needed for a Healthcare professional through clinicals and potential opportunities at IU Health Frankfort

- *Job opportunities: Hospitals, home health and long-term care facilities. Some nursing schools now require a CNA certification to be considered as a potential student.*

● **Information Technology Operations - NEW**

Explore information technology and cybersecurity areas to gain an understanding of building computer networks and protecting them against cyber threats.

- Dual Credit: Ivy Tech (up to 21 credits) *SDEV 120, *INFM 109, *ITSP 132, 134, 136, *NETI 104, *CSIA 105, ***This program is Dual Enroll**

Learn to assemble components, install, configure and maintain devices/software

Develop an understanding of networking and security, and how to resolve common hardware and software issues

Apply hands on skills and techniques learned

- *Job Opportunities: Information Security Analyst, Network and Computer systems Administrator, Computer Network Architect or Analyst*



CLINTON CENTRAL PROGRAMS

● **Agri-Science – Animals**

Develop an understanding and skills necessary to prepare you to work with animals typically found in agricultural settings.

- Dual Credit: Ivy Tech (Up to 9 Credits) AGRI 100, *AGRI 103, *AGRI 113

Explore the workings of the body of mammals by discovering the parts and how they work

Develop the skills needed to work with animals on a farm setting

Utilize the knowledge you gain to better prepare you for working on farms, ranches, or entry level veterinary positions

- *Job Opportunities: Veterinary Technician, Farmer, Rancher, Environmental Scientist, Ag Teacher*

● **Agri-Science – Plants**

Develop knowledge and skills related to farming in America.

- Dual Credit: Ivy Tech (Up to 9 Credits) AGRI 100, *AGRI 105, *AGRI 109

Learn about plant growth, reproduction and propagation, photosynthesis and respiration, diseases and pests

Explore types of soil, soil tillage, and conservation methods

Develop a better understanding of how all the above factors along with biotechnology contribute to increasing productivity and yield in agricultural settings

- *Job Opportunities: Agricultural Technician, Environmental Technician, Environmental Scientist, Ag Teacher, Food Scientist, Farmer*

● **Ag Mechanical and Engineering**

(Formerly Ag Power, Structure, and Technology)

Explore basic principles of operation, maintenance, and management of agriculture equipment.

- Dual Credit: Ivy Tech (Up to 9 Credits) AGRI 100, *AGRI 106. **AGRI 128 if added*

Explore basic principles of tool selection, problem-solving, and fabrication when it comes to maintenance of agricultural equipment

Develop understanding of safety, electricity, concrete, plumbing, carpentry, metal working, and engines

Learn about the emerging technologies in agriculture and how they are being utilized

- *Job Opportunities: Farm Mechanic, Service Technician, Engineer, Equipment Sales, Farmer*

● **Precision Agriculture - NEW**

Develop an understanding and ability to operate various precision agriculture tools including GPS, GIS, and VRT.

- Dual Credit: Ivy Tech (Still in Development) AGRI 100,

Learn how to collect data, analyze data and use information to make farming decisions

Explore the use of drones in agriculture settings to collect data

Develop an understanding of plant nutrient requirements and how to provide for those needs to achieve efficient crop production

- *Job Opportunities: Precision Ag Technician, Farmer, Environmental Technician, Environmental Scientist*

● **Business Administration – NEW**

Explore business ownership, organization principles, management, administration, financial management, and development practices of business enterprises.

- Dual Credit: In Development for this program

Develop business communication, problem-solving, and decision-making skills

Learn about judicial systems and sources of law affecting business

Examine legal aspects of property ownership, structures of business ownership and operation

- *Job Opportunities: Business Owner, Manager, Human Resources Specialist, Operations Research Analyst*



Clinton Prairie Programs

● **Agri-Science – Animals**

Develop an understanding and skills necessary to prepare you to work with animals typically found in agricultural settings.

- Dual Credit: Ivy Tech (Up to 9 Credits) AGRI 100, *AGRI 103, *AGRI 113

Explore the workings of the body of mammals by discovering the parts and how they work

Develop the skills needed to work with animals on a farm setting

Utilize the knowledge you gain to better prepare you for working on farms, ranches, or entry level veterinary positions

- *Job Opportunities: Veterinary Technician, Farmer, Rancher, Environmental Scientist, Ag Teacher*

● **Agri-Science – Plants**

Develop knowledge and skills related to farming in America.

- Dual Credit: Ivy Tech (Up to 9 Credits) AGRI 100, *AGRI 105, *AGRI 109

Learn about plant growth, reproduction and propagation, photosynthesis and respiration, diseases and pests

Explore types of soil, soil tillage, and conservation methods

Develop a better understanding of how all the above factors along with biotechnology contribute to increasing productivity and yield in agricultural settings

- *Job Opportunities: Agricultural Technician, Environmental Technician, Environmental Scientist, Ag Teacher, Food Scientist, Farmer*

● **Ag Mechanical and Engineering**

(Formerly Ag Power, Structure, and Technology)

Explore basic principles of operation, maintenance, and management of agriculture equipment.

- Dual Credit: Ivy Tech (Up to 9 Credits) AGRI 100, *AGRI 106. *AGRI 128 if added

Explore basic principles of tool selection, problem-solving, and fabrication for maintenance of agricultural equipment

Develop understanding of safety, electricity, concrete, plumbing, carpentry, metal working, and engines

Learn about the emerging technologies in agriculture and how they are being utilized

- *Job Opportunities: Farm Mechanic, Service Technician, Engineer, Equipment Sales, Farmer*

● **Culinary Arts**

Develop foundations of Culinary and Hospitality careers for students.

Apply theory of Culinary Arts and Hospitality to real life careers

Explore different career paths in the Culinary and Hospitality Industry

Experience hands-on training in laboratory settings

- *Job Opportunities: Chef, Kitchen manager, Restaurant Manager, Catering, Dietician*

● **Education Professions**

Develop the foundation for working with children within the field of teaching and other related careers

- Dual Credit: Ivy Tech (Still in Development) *EDUC 101

Explore educational careers, teaching preparation, and basic theories of child development

Participate in authentic field experiences in classroom settings and acquire hands-on, real-life experiences

Develop engaging activities by integrating best practices, technology, and instructional strategies

- *Job Opportunities: Preschool Teacher, Elementary, Middle, or High School Teacher, College Teaching Assistant*

● **Human and Social Services**

Develop the foundation for working with people to manage struggles or challenges in their daily lives.

Explore career opportunities in the Human Services field in both for-profit as well as not-for-profit services

Learn about how sociological factors impact human behavior and needs at the local, state, national, and global/world level

Experience service and project based learning opportunities

- *Job Opportunities: Child and Family Social Worker, School Social Worker, Healthcare Social Worker*

● **Marketing and Sales**

Learn about the scope and importance of marketing in the global economy.

Develop skills for marketing and promotion in various areas

Design marketing and business plans both traditional and digital

Participate in DECA, BPA, or other school based enterprises for hands-on learning opportunities

- *Job Opportunities: Real Estate, Marketing Manager, Sales Manager, Market Research Analyst*



Frankfort Programs

● **Automotive Services**

Develop the knowledge and skills necessary to successfully diagnose and repair today's technically advanced vehicles.

- Dual Credit: Ivy Tech: (Up to 15 Credits) AUTI 100, *AUTI 111, *AUTI 121, *AUTI 122, *AUTI 145

Learn proper procedures for diagnosing and repairing automobiles

Perform basic repairs and maintenance on many different automotive systems

Explore career paths in the automotive industry

- *Job Opportunities: Quick Lube Shops, Brake and Muffler Shops, Dealerships, Independent Garages, Tire Shops*

● **Biomedical Sciences**

Explore the study of human medicine, research processes, and bioinformatics.

Learn basic forensic science methods and concepts

Examine basic human physiology, past and current medical practices, and medical interventions

Research innovative medical solutions to current and future medical challenges

- *Job Opportunities: Nursing, Physical Therapist, Nurse Practitioner, Doctor, Medical Research, Forensic Science, Biochemist*

● **Business Administration**

Explore business ownership, organization principles, management, administration, financial management, and development practices of business enterprises.

- Dual Credit: (Still in Development) *BUSN 101

Develop business communication, problem-solving, and decision-making skills

Learn about judicial systems and sources of law affecting business

Examine legal aspects of property ownership, structures of business ownership and operation

- *Job Opportunities: Business Owner, Manager, Human Resources Specialist, Operations Research Analyst*

● **Civil Construction- NEW**

Learn about heavy equipment and highway construction in a horizontal construction course.

- Dual Credit: New course still in development

Explore the differences between horizontal road and highway civil construction from residential and commercial vertical construction

Experience how the use of heavy equipment is utilized in road and other civil construction projects

Develop an understanding of civil engineering, road construction, and heavy equipment operation

- *Job Opportunities: Civil Engineer, Civil Drafter, Civil Construction Worker Manager, Highway Department Worker/Manager, City Planner, Developer*

● **Early Childhood Education**

Develop the foundation for working with children 0 to Pre-Kindergarten.

- Dual Credit: Still in development for this program
- Certifications: Still in development for this program

Explore early child development, teaching preparation, and basic childcare theories

Participate in authentic field experiences in childcare settings and acquire hands-on, real life experiences

Learn about providing care and early education to children 0 to Pre-Kindergarten

- *Job Opportunities: Instructional Assistant, Paraprofessional, Preschool Teacher, In-Home Childcare Provider*

● **Education Professions**

Develop the foundation for working with children within the field of teaching and other related careers

- Dual Credit: Ivy Tech (Up to 9 Credits) *EDUC 101, *EDUC 121, *EDUC 233

Explore educational careers, teaching preparation, and basic theories of child development

Participate in authentic field experiences in classroom settings and acquire hands-on, real-life experiences

Develop engaging activities by integrating best practices, technology, and instructional strategies

- *Job Opportunities: Preschool Teacher, Elementary, Middle, or High School Teacher, College Teaching Assistant*

- **Engineering**

Develop problem solving, teamwork, and critical thinking skills as it relates to Engineering.

- Dual Credit: Ivy Tech (Up to 6 Credits) *DESN 101, *DESN 104

Participate in hands-on activities drawing, planning, and building as part of the engineering process.

Utilize computer animated design programs, 3D printers, robotics, and other equipment utilized in the workforce

Learn about the engineering processes, prototyping, automation, and constructing models and 3D designs

- *Job Opportunities: Engineering Tech, Industrial Engineer, Mechanical Engineer, Electrical Engineer, Mechatronics Technician, Biochemical Engineer*

- **Human and Social Services**

Develop the foundation for working with people to manage struggles or challenges in their daily lives.

Explore career opportunities in the Human Services field in both for-profit as well as not-for-profit services

Learn about how sociological factors impact human behavior and needs at the local, state, national, and global/world level

Experience service and project based learning opportunities

- *Job Opportunities: Child and Family Social Worker, School Social Worker, Healthcare Social Worker*

- **Industrial Technical Maintenance**

Develop the skills necessary to start a career or continue your education toward maintaining highly sophisticated machinery and equipment.

- Dual Credit: Ivy Tech (Up to 6 Credits) ADMF 101, *ADMF 102, Additional credits still in development

Learn about electronics, hydraulics, pneumatics, robotics, and manufacturing processes

Build the knowledge necessary to start a career in the developing 4th industrial revolution

Experience hands-on learning opportunities

- *Job Opportunities: Certified Production Technician, Automated Equipment Technician, Industrial Maintenance Technician, PLC Programmer, Systems Integrator*

- **Marketing and Sales**

Learn about the scope and importance of marketing in the global economy.

- Dual Credit: Ivy Tech (Up to 9 Credits) *BUSN 101, *MKTG 101, *MKTG 230

Develop skills for marketing and promotion in various areas

Design marketing and business plans both traditionally and digitally

Participate in DECA, BPA, or other school based enterprises for hands-on learning opportunities

- *Job Opportunities: Real Estate, Marketing Manager, Sales Manager, Market Research Analyst*

- **Radio/TV**

Explore the world of Radio/TV through broadcasting or reporting sports, news, and other stories. Explore through either presenting/reporting as well as technical production behind the scenes running sound, cameras, or designing graphics.

Develop the skills necessary to work in front of or behind the Mic or Camera

Learn about and how to use the software and equipment utilized in the Radio/TV industries

Participate in work-based learning experiences producing, filming, commentating productions for HOTDOG Television for announcements, sporting events, plays, and other productions

- *Job Opportunities: Radio Broadcaster, Mass Media Production Technician, A/V Technician, Camera Operator, Broadcast Technician, Multimedia Artist/Animator*

- **Welding**

Develop basic skills in multiple welding styles necessary to start a career in the Welding industry.

- Dual Credit: Ivy Tech (Up to 9 Credits) WELD 100, *WELD 108, *WELD 207

Learn skills for torch, stick, and MIG welding with an introduction to TIG welding

Perform basic welding and cutting operations

Apply basic welding skills

- *Job Opportunities: Welding Shops, Manufacturing Plants, Fabrication Shops, Automotive Collision*



Rossville Programs

● **Agri-Science – Animals**

Develop an understanding and skills necessary to prepare you to work with animals typically found in agricultural settings.

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Explore the workings of the body of mammals by discovering the parts and how they work

Develop the skills needed to work with animals on a farm setting

Utilize the knowledge you gain to better prepare you for working on farms, ranches, or entry level veterinary positions

- *Job Opportunities: Veterinary Technician, Farmer, Rancher, Environmental Scientist, Ag Teacher*

● **Agri-Science – Plants**

Develop knowledge and skills related to farming in America.

- Dual Credit: Ivy Tech (Up to 9 Credits) AGRI 100, *AGRI 105, *AGRI 109

Learn about plant growth, reproduction and propagation, photosynthesis and respiration, diseases and pests

Explore types of soil, soil tillage, and conservation methods

Develop a better understanding of how all the above factors along with biotechnology contribute to increasing productivity and yield in agricultural settings

- *Job Opportunities: Agricultural Technician, Environmental Technician, Environmental Scientist, Ag Teacher, Food Scientist, Farmer*

● **Ag Mechanical and Engineering**

(Formerly Ag Power, Structure, and Technology)

Explore basic principles of operation, maintenance, and management of agriculture equipment.

- Dual Credit: Ivy Tech (Up to 9 Credits) AGRI 100, *AGRI 106. *AGRI 128 if added

Explore basic principles of tool selection, problem-solving, and fabrication when it comes to maintenance of agricultural equipment

Develop understanding of safety, electricity, concrete, plumbing, carpentry, metal working, and engines

Learn about the emerging technologies in agriculture and how they are being utilized

- *Job Opportunities: Farm Mechanic, Service Technician, Engineer, Equipment Sales, Farmer*

● **Business Administration**

Explore business ownership, organization principles, management, administration, financial management, and development practices of business enterprises.

- Dual Credit: (Still in Development) *BUSN 101

Develop business communication, problem-solving, and decision-making skills

Learn about judicial systems and sources of law affecting business

Examine legal aspects of property ownership, structures of business ownership and operation

- *Job Opportunities: Business Owner, Manager, Human Resources Specialist, Operations Research Analyst*

● **Human and Social Services**

Develop the foundation for working with people to manage struggles or challenges in their daily lives.

Explore career opportunities in the Human Services field in both for-profit as well as not-for-profit services

Learn about how sociological factors impact human behavior and needs at the local, state, national, and global/world level

Experience service and project based learning opportunities

- *Job Opportunities: Child and Family Social Worker, School Social Worker, Healthcare Social Worker*

● **Industry 4.0 – Manufacturing**

Develop the skills to combine advanced production and operations techniques with smart digital technologies like robotics, AI, and nanotechnology.

- Dual Credit: Ivy Tech (Up to 6 Credits) SMDI 110, *SMDI 111, Additional credits still in development

Learn about connecting technologies in manufacturing that include robotics, analytics, artificial intelligence, and nanotechnology.

Build the knowledge necessary to start a career in the developing 4th industrial revolution

Experience hands-on learning opportunities

- *Job Opportunities: Automation Engineering, Industrial Engineer, Mechanical Engineer, CNC Programmer, PLC Programmer, Systems Integrator*

- **Software Development**

Utilize computer code to create, design, deploy, and support computer software.

Learn how to code to build software programs, applications, games, and more

Experience hands-on activities that will help you develop and improve your knowledge and skills

Apply your new skills to develop software programs

- *Job Opportunities: Software Developer, Web Developer, Information Security Analyst, Computer Network Architect*

Note: * Indicates that students must meet program ready requirements to receive Dual Credit. Dual Credit courses and certifications are subject to change.

Shared Programs typically take place off campus.

Construction courses occur at Clinton Prairie, Frankfort, and on the Home Building Site, EMS across from Frankfort Fire Station 1, Health Science at Ivy Tech Frankfort and clinical sites, Criminal Justice at Frankfort High School, and Cosmetology at training centers in Lafayette or Lebanon.

Each school has available spots available in “Shared Programs” for their students. Programs that are run solely out of each High School are available to students from other schools as long as there is room in the class and it fits in the student’s schedule.