

AREA 31 CAREER PROGRAMS

Career and Technical Education

Career and Technical Education (CTE) Programs prepare students for careers and/or further study at a post-secondary institution. Most programs are offered at the Area 31 Career Center at Ben Davis High School. Opportunities exist for students of all abilities in a variety of programs. Area 31 does not discriminate on the basis of race, color, gender, national origin, religion, creed, disability, sexual orientation or gender identity. Local employers provide curriculum direction and employment, including work based learning experiences. Most career and technical education programs enable a student to receive college credit. Some programs offer state approved industry certifications that can be used to meet technical honors diploma requirements. Other departments including Business, Communications, Science, and Engineering and Technology Education have course offerings that will help students choose a career pathway.

NOTE: Before enrolling in any Career and Technical Education program, the student must complete an enrollment form and return it to a counselor.

Course offerings include:

- Advanced Manufacturing: Industrial Maintenance I & II
- Automotive Service Technology I & II**
- Aviation Flight Technology**
- Aviation Maintenance Technology I**
- Collision Repair Technology I & II**
- Construction Trades I & II**
- Cosmetology I & II**
- Criminal Justice I**
- Culinary Arts I (Culinary Arts and Hospitality Management)**
- Culinary Arts II (Advance Culinary Arts)**
- Dental Careers
- Digital Integrated Manufacturing I & II**
- Early Childhood Education I**
- Early Childhood Education II (WBL)**
- Emergency Medical Services **
- Fire and Rescue I**
- Graphic Imaging Technology I & II**
- Health Science Education I**
- Health Science Education II (CNA WBL)
- Heating and Air (HVAC I & II)**
- Horticulture Science I & II**
- Medical Assisting**
- Networking & Cyber Security I & II**
- Pharmacy Tech I**
- Pharmacy Tech II (WBL)**
- Precision Machining I & II**
- Radio Broadcasting I & II**
- Supply Chain Management**
- Television Broadcasting I & II**

- Tractor/Trailer Operation **
 - Welding Technology**
- **College credit available; dual credits offered may change to align with NLPS (Next Level Programs of Study)

Note: *Indiana college credit is generally transferable from one Indiana educational institution to another; however, students and parents should research the transfer themselves just to be sure. One educational institution cannot make a transfer call for another. Students and parents should contact an advisor at the institution where they want to attend and ask if the credit being offered will count toward the degree of their choice.*

ADVANCED MANUFACTURING: INDUSTRIAL MAINTENANCE I
ADVANCED MANUFACTURING: INDUSTRIAL MAINTENANCE II

Length/Credits: 3 periods – 3 credits

Offered: 4 semester program

Open to: Grade 11, 12

COLLEGE CREDIT

Prerequisite: Algebra I and English 10

Dual Credit: Ivy Tech Community College – 6 credits

- Identify basic manufacturing processes and major types of production systems
- Describe the need for workplace safety and workplace safety training programs
- Discuss basic blueprint reading fundamentals, and quality systems
- Perform basic measurement using precision measuring tools
- Explain the basic concepts of electrical, hydraulic, and pneumatic power systems
- Demonstrate a general knowledge of non-traditional manufacturing processes and automation
- Describe the design, tooling and production aspects of manufacturing
- Describe the basic concepts of machine control, machine automation, and electrical control
- Discuss the concepts of Lean Manufacturing, and Total Productive Maintenance.

Ivy Tech Community College credit can be earned for the following courses:

ADMF 102 Technology in Adv. Manufacturing 3 credits

ADMF 101 Key Principles of Adv. Manufacturing 3 credits

AUTOMOTIVE SERVICE TECHNOLOGY I
AUTOMOTIVE SERVICE TECHNOLOGY II

COLLEGE CREDIT



Length/Credits: 3 period block; 3 credits

Offered: 4 semester program

Open to: Grades 11, 12

Prerequisite: Algebra I and English 10

Dual Credit: Ivy Tech Community College – 21 credits

- Develop skills for entry level positions in eight specialty areas based on National Institute for Automotive Service Excellence: automatic transmission/transaxle, brakes, electrical systems, engine performance, engine repair, heating and air conditioning, manual drive train and axles, and suspension and steering
- Work with customers to service real vehicles
- Work-based learning experience possible for second year seniors with recommendation; transportation required to worksite

- Can earn ASE (Automotive Service Excellence) certifications and Maintenance Light Repair (MLR) certification from Ivy Tech

Ivy credit can be earned for the following courses:

Year 1

<i>AUTI 100</i>	<i>Basic Automotive Service</i>	<i>3 credits</i>
<i>AUTI 111</i>	<i>Electrical Systems I</i>	<i>3 credits</i>
<i>AUTI 121</i>	<i>Brake Systems I</i>	<i>3 credits</i>
<i>AUTI 122</i>	<i>Steering and Suspension</i>	<i>3 credits</i>
<i>AUTI 145</i>	<i>Driveline Service</i>	<i>3 credits</i>

Year 2

<i>AUTI 131</i>	<i>Engine Performance</i>	<i>3 credits</i>
<i>AUTI 141</i>	<i>Engine Fundamentals</i>	<i>3 credits</i>

AVIATION FLIGHT TECHNOLOGY

Length/Credits: 3 periods; 3 credits

COLLEGE CREDIT

Offered: 2 semester program

Open to: Grades 11, 12

Prerequisite: Algebra 1 and English 10

Dual Credit: Vincennes University - 18 credits

Note: Students must provide their own transportation to ATC, 2175 S. Hoffman Road, Indianapolis; Accuplacer testing required for acceptance (Reading: 231+, Writing: 231+, Math: 245+)

- Introduce students to general aviation industry, including: aircraft manufacturing, airline operations, air freight, airport management, government services, aviation safety regulations, and certifications
- Learn skills needed to pass the Federal Aviation Agency written pilot examination
- Study aircraft hydraulic systems, aircraft electrical systems, landing gear, brake systems, pressurization, constant speed propellers, prop synchrophasers, de-ice and anti-ice brake systems, airframe construction techniques, and radar
- Develop skills for aircraft instrumentation, radios and systems
- Explore weather theory and data interpretation as it relates to aviation
- This course is provided at the Vincennes Airport Technology Center, Students must provide their own transportation

Vincennes credit may be earned for the following courses:

Sem. 1 (fall)

<i>AMNT 100</i>	<i>Intro to Aviation</i>	<i>3 credits</i>
<i>AFLT 210</i>	<i>Aircraft Systems, Perf. & Aerodynamics</i>	<i>3 credits</i>
<i>AFLT 291</i>	<i>Aviation Law and Regulations</i>	<i>3 credits</i>

Sem. 2 (spring)

<i>AFLT 100</i>	<i>Primary Ground School</i>	<i>4 credits</i>
<i>AFLT 225</i>	<i>Human Factors and Safety</i>	<i>2 credits</i>
<i>AFLT 285</i>	<i>Aviation Weather</i>	<i>3 credits</i>

AVIATION MAINTENANCE I

Length/Credits: 3 period block; 3 credits

COLLEGE CREDIT

Offered: 2 semester program

Open to: Grade 11, 12

Prerequisite: Algebra 1 and English 10

Dual Credit: Vincennes University -16 credits

Note: Students must provide their own transportation to ATC, 2175 S. Hoffman Road, Indianapolis; Accuplacer testing required for acceptance (Reading: 231+, Writing: 231+, Math: 245+)

- Study the mechanics of an airplane engine; how it works, and how to repair
- Study and experience aircraft servicing, operations, general electricity, publications, instrumentation, fire protection, cabin atmosphere, fuel systems and welding
- Learn from instruction by Vincennes University at the Aviation Technology Center at Indianapolis International Airport
- Requires excellent attendance (missed instructional time must be made up as required by F.A.A. regulations).

Vincennes credit can be earned for the following courses:

Sem. 1 (fall)

AMNT 106 Materials, Process, Welding 4 credits

AMNT 166 Composite & Nonmetallic Structures 4 credits

Sem. 2 (spring)

AMNT 102 General Aviation Maintenance 4 credits

AMNT 162 Aircraft Sheet Metal 4 credits

COLLISION REPAIR TECHNOLOGY I

COLLISION REPAIR TECHNOLOGY II

COLLEGE CREDIT

Length/Credits: 3 period block; 3 credits

Offered: 4 semester program

Open to: Grades 11, 12

Prerequisite: Algebra 1 and English 10

Dual Credit: Vincennes University – 16 credits

Note: Juniors are scheduled into the morning class; seniors are scheduled into the afternoon class.



- Learn to work on the bodies of cars and move into a wide variety of job possibilities
- Learn basics of computerized frame measuring; computerized estimate writing; metal working skills; hammer and dolly; filler applications, blocking and sanding; shrinking and stretching methods; refinish techniques and use of spray painting equipment, computerized mixing and matching of paints (solvent and water based)
- Develop skills in MIG welding, plastic welding and plasma cutting
- Provide required work clothing and shoes
- Work-based learning experience possible for second year seniors with recommendation; transportation required to worksite; basic hand tools required for employment
- Can earn ASE (Automotive Service Excellence) certifications and SP2 Safety Certification

Vincennes University credits may be earned for the following courses:

1st Year

<i>BODY 100</i>	<i>Non-Structural Analysis Damage Repair</i>	<i>3 credits</i>
<i>BODY 100L</i>	<i>Non-Structural Analysis Damage Repair –Lab</i>	<i>4 credits</i>
<i>AUTO 105</i>	<i>Transportation Fundamentals</i>	<i>2 credits</i>

2nd Year

<i>BODY 150</i>	<i>Painting and Refinishing</i>	<i>3 credits</i>
<i>BODY 150L</i>	<i>Painting and Refinishing-Lab</i>	<i>4 credits</i>

CONSTRUCTION TRADES I

CONSTRUCTION TRADES II

COLLEGE CREDIT

Length/Credits: 3 period block; 3 credits

Offered: 4 semester program

Open to: Grades 11, 12

Prerequisite: Algebra 1 and English 10

Dual Credit: Ivy Tech (Indy) – 15 credits

- Experience construction from the foundation up
- Explore career possibilities in the construction industry: carpentry, masonry, electrical, plumbing, concrete, painting, roofing, and drywall
- Earn OSHA certification
- Build a new home/building or renovate an existing building; emphasis placed on construction and practice
- Work in the heat and cold and everything in between; will need coveralls and winter clothing; tools, approximate cost \$60

Ivy Tech - Indy credits for the following courses:

Year 1

<i>BCTI 100</i>	<i>Intro to Construction</i>	<i>3 credits</i>
<i>BCTI 101</i>	<i>Intro to Carpentry- part 1</i>	<i>3 credits</i>
<i>BCTI 103</i>	<i>Carpentry Framing & Finish,</i>	<i>3 credits</i>

Year 2

<i>BCTI 102</i>	<i>Intro to Carpentry-part 2</i>	<i>3 credits</i>
<i>BCTI 104</i>	<i>Carpentry Framing & Finish, 2</i>	<i>3 credits</i>

COSMETOLOGY I

COSMETOLOGY II

COLLEGE CREDIT



Length/Credits: 4 period block; 3 credits

Offered: 4 semester program

Open to: Grades 11, 12

Prerequisite: Algebra 1 and English 10

Note: Applicants must have a cumulative GPA of 2.0 (C average) and good attendance record

Dual Credit: Vincennes University – 28 credits

- Develop proficiency in all skills of beauty culture to qualify for the State Board of Beauty Culture examination
- Attend 4-hour class, am or pm at Ben Davis High School; or am at PJ's in Brownsburg for first year students

- Attend P. J.'s Beauty College in Plainfield or Brownsburg for second year students; must have own transportation and attend on Saturdays
- Demonstrate skills in shampoos and sets, iron outs, updos, permanents, relaxers, scalp treatments, facial treatments, haircuts, haircolor, manicures, pedicures, waxing, proper sanitation, and personal hygiene
- Complete required 1500 hours in two-year period;
- Provide services on manikins, other students, and clients hair, skin and nails
- Purchase beautician kit before the start of school; contains supplies and materials used every day; 1st year cost is approximately \$650; 2nd year cost determined by PJ's (approximately \$200)
- Provide a Non-refundable deposit of \$50 by June 1st; credited toward the cost of the first year kit
- Indiana State Board of Cosmetology Certification

Vincennes University credit can be earned for the following courses with required grade. Identified *courses must pass Accuplacer testing:

Year 1

*COSM 100 *Cosmetology I* 7 credits

COSM 150 *Cosmetology II* 7 credits

Year 2

COSM 200 *Cosmetology III* 7 credits

COSM 250 *Cosmetology IV* 7 credits

CRIMINAL JUSTICE I

COLLEGE CREDIT

Length/Credits: 3 period block; 3 credits

Offered: 2 semester program

Open to: Grades 11, 12

Prerequisite: Algebra 1 and English 10

Dual Credit: Vincennes University- 12 credits

- Study fundamentals of criminal investigation, theory and history; and techniques appropriate to specific crime scenes
- Learn traffic administration and control: its impact as a control method, driver licensing local traffic control systems, accident causation and investigation, identification and analysis of traffic problems, traffic safety coordination, and the use of selective enforcement as a method of traffic control
- Study US criminal justice system
- Explore forensic science and its value in the courtroom: laboratory procedures and capabilities; crime scene searching and sketching; photography; firearms and tool mark identification; fingerprints; shoe and tire impressions; headlamp examination; arson; analysis and preservation of trace evidence
- Uniform required (approximately \$150)

NOTICE: Students in this program may be assigned to a Brownsburg or Wayne Township location based on considerations such as program enrollment numbers and the student's home high school. The Area 31 Enrollment Committee makes enrollment decisions and placement decisions are made by Area 31 Career Center administration.

Vincennes University credits may be earned for the following courses:

Fall Semester

LAWE 101 *Basic Police Operations* 3 credits

LAWE 150 *Criminal Minds & Deviant Behav.* 3 credits

Spring Semester

LAWE 100 *Survey of Criminal Justice* 3 credits

LAWE 145 *Ethics & Professionalism* 3 credits

**CULINARY ARTS AND HOSPITALITY
MANAGEMENT (I)**

ADVANCED CULINARY ARTS (II)

Length/Credits: 3 period block; 3 credits

Offered: 4 semester program

Open to: Grades 11, 12

Prerequisite: Algebra 1 and English 10

Dual Credit: Vincennes University – 36 credits

COLLEGE CREDIT



Early College Program -
Students in this program work toward a Vincennes
Associate Degree

- Prepare for entry-level positions in the culinary field, and who knows... maybe even open your own restaurant one day!
- Learn safety and sanitation, food costs, management skills, and continued exploration of basic cooking techniques, table service, food and culture, and careers
- Gain first hand kitchen and dining room experience by operating a student run restaurant open for the public
- Explore employment opportunities include prep cook, line cook, kitchen manager, sous chef, or chef host/hostess, servers assistant, server, assistant manager, or manager.
- Earn nationally recognized ServSafe Certification
- Required uniform: chef coat (3), hat (2), pants (2), and apron; approximate cost \$130

Vincennes University credit can be for the following courses:

Year 1 - Fall

CULN 110 *Quantity Food Production* 5 credits

REST 100 *Intro to Hospitality Mgmt.* 3 credits

REST 120 *Food Service Sanitation* 3 credits

Year 1 – Spring

CULN 210 *Pastry & Bake Shop Production* 5 credits

REST 230 *Menu Planning & Facility Design* 3 credits

Year 2 – Fall

CULN 150 *Adv Quantity and Food – Lab* 5 credits

CULN 215 *Supervision of Quantity Foods* 3 credits

REST 155 *Quantity Food Purchase* 3 credits

Year 2 - Spring

REST 213 *Beverage III – Non-Alcohol Bever.* 1 credit

CULN 260 *Haute Cuisine & Specialty* 5 credits

Note: Some of the courses may require student payment of \$25 per credited hour in order to earn the credit.

DENTAL CAREERS

Length/Credits: 3 period block; 3 credits

Offered: 2 semester program

Open to: Grade 12
Prerequisite: Algebra 1 and English 10
Dual Credit:

- Participate in a program accredited by the Dental Assisting National Board
- Receive hands-on training to develop skills necessary to succeed on the job as a dental assistant
- Perform duties such as instrument sterilization, tray setups, four-handed dentistry, equipment maintenance, impressions, model trimming, charting, and dental reception duties
- Pursue National Entry Level Dental Assistant Certification (NELDA) and an Indiana Radiology License
- Required to provide a TB test and documentation, and a copy of Hepatitis vaccination series
- Required to wear ceil blue scrubs and white tennis shoes

DIGITAL INTEGRATED MANUFACTURING I
DIGITAL INTEGRATED MANUFACTURING II

COLLEGE CREDIT

Length/Credits: 3 period block; 3 credits
Offered: 4 semester program
Open to: Grades 11, 12
Prerequisite: Algebra 1 and English 10
Dual Credit: Ivy Tech Community College – 12 Credits



- Earn OSHA 10 Hour Safety Training
- Study Blueprint development & reading
- Study various types of material handling
- Learn maintenance awareness skills
- Learn various types of machine operations and hand tools
- Learn principles of manufacturing processes and LEAN Manufacturing
- Learn precision measurement and measurement conversions
- Study various Quality concepts and techniques
- Learn Industrial Internet of Things (IoT)
- Learn Programing of Programmable Logic Controllers (PLC)
- Learn the operation of High and low voltage electrical circuits & sensors
- Learn Relay control circuits
- Study various types of Ethernet and Network communications
- Learn Robotic theory & programming
- Learn CNC machining & programming
- Study the operations of Hydraulics & fluid power, Pneumatics, and compressed air systems
- Learn Mechanical power transmission, including gears, belts, and chain drives
- Students can earn Ivy Tech credits and certifications such as OSHA 10, and Alliance certifications.

Ivy Tech Community College credits upon successful completion of coursework

Year 1

SMDI 110 Introduction of IIOT 3 Credits

SMDI 111 Technology in Smart Man & Digital 3 Credits

Year 2

SMDI 130 Electrical Systems in Manufacturing – Capstone 3 credits

INDT 205 Programmable Automation Controls – Capstone 3 credits

EARLY CHILDHOOD EDUCATION I

Length/Credits: 3 period block; 3 credits

COLLEGE CREDIT

Offered: 2 semester program

Open to: Grades 11, 12

Prerequisite: Algebra 1 and English 10; Child Development & Advanced Child Development (preferred)

Dual Credit: Ivy Tech Community College – 9 credits

- Learn stages of a child's physical, emotional, social, and cognitive development, and skills in instruction and observation
- Develop skills and techniques for providing appropriate environments and care for young children
- Participate at Giant Preschool Learning Center (ages 3, 4, and 5) and Chapelwood Elementary school and possible Early Learning Academy: observing, teaching, and working one-on-one with students
- Students must complete: physical, TB test and documentation, and an Indiana State Police Criminal Background Check
- Complete training in: First Aid, CPR, and Universal Precautions

Ivy Tech Community College credits upon successful completion of coursework with a grade of A or B.

Identified *courses must pass Accuplacer testing:

*ECED 100 *Intro to Early Childhood Ed* 3 credits

*ECED 101 *Health, Safety & Nutrition* 3 credits

*ECED 103 *Curriculum in the Classroom* 3 credits

EARLY CHILDHOOD EDUCATION II (WBL)

COLLEGE CREDIT



Length/Credits: 3 period block; 3 credits

Offered: 2 semester program

Open to: Grade 12

Prerequisite: Algebra 1 and English 10, Early Childhood Education I and teacher recommendation

Dual Credit: Ivy Tech Community College – 3 credits

- Work and receive high school credit while gaining work experience for CDA (Child Development Associate) credentialing
- Students work in a licensed day care center in the community
- Teacher recommendation is required for second year enrollment and participation in the program
- Personal transportation required to jobsite
- Competitive placement – must interview for a position
- Grades, classroom performance, and attendance are reviewed before acceptance in the second year work-based learning program
- Students will complete CDA portfolio/test/verification visit

Ivy Tech Community College credits can be earned for the following course with “C” or higher in ECED 100, 101, and 103

ECED 105 *CDA Process* 3 credits

EMERGENCY MEDICAL SERVICES

Length/Credits: 3 period block; 3 credits

COLLEGE CREDIT



Offered: 2 semester program

Open to: Grade 12

Prerequisite: Algebra 1 and English 10

Dual Credit: Ivy Tech Community College – 7 ½ credits
 Note: Students must be 18 years of age prior to completion of clinical experiences for certification as an EMT.

- Learn about life and death situations, spontaneous decision making, and careers in advanced medical positions
- Prepare for further study for an associate degree in Emergency Medical Services
- Learn to recognize a patient’s condition; the seriousness, and how to use appropriate emergency care techniques and equipment to stabilize the patient
- Earn certifications which include American Heart Association (AHA) Healthcare Provider CPR or American Red Cross (ARC) Professional Rescuer CPR, IAED Emergency Dispatch/Telecommunication Certificate
- Document clinical experiences, some to be completed on student’s own time (evenings and weekends)
- Provide a limited criminal history check and immunization records
- National Registry Emergency Medical Technician (NREMT) Certification upon completion of standards and test
- Required uniform will cost approximately \$75

Ivy Tech credits may be earned for the following course:

PARM 102 EMT Basic Training 7 ½ credits

FIRE AND RESCUE I

Length/Credits: 3 period block; 3 credits

COLLEGE CREDIT

Offered: 2 semester program

Open to: Grades 11, 12

Prerequisite: Algebra 1 and English 10

Dual Credit: Ivy Tech – 12 credits

Note: Classes at the ESEC (Emergency Service Education Center) at 700 North High School Road; Students must provide their own transportation to ESEC



- Experience an adrenaline rush, burning buildings, blazing fires
- Prepare for entry-level positions or further study in fire service
- Study fire protection systems, fire prevention and safety education, building construction and floor plans, fire, safety and construction codes
- Prepare for Firefighter I & II certifications exams
- Learn the importance of on-scene and on-the-job firefighter health, safety and fitness
- Uniform required: shirts, safety glasses, gloves; approximately \$130
- ISHAA physical is required

Ivy Tech credits may be earned for the following courses:

<i>HSPS 106</i>	<i>Fire Suppression</i>	<i>3 credits</i>
<i>HSPS 122</i>	<i>Hazmat Awareness and Operations</i>	<i>3 credits</i>
<i>HSPS 165</i>	<i>Firefighter I</i>	<i>3 credits</i>
<i>HSPS 167</i>	<i>Firefighter II</i>	<i>3 credits</i>

**GRAPHIC IMAGING TECHNOLOGY I
 GRAPHIC IMAGING TECHNOLOGY II**

COLLEGE CREDIT

Length/Credits: 3 period block; 3 credits
Offered: 4 semester program
Open to: Grades 11, 12
Prerequisite: Algebra 1 and English 10
Dual Credit: Vincennes University – 12 credits

- Create your own logo, then sport it, spread it, promote it! What's your brand?
- Provide hands-on training utilizing current graphic arts fundamentals
- Create computer-generated imagery and image assembly, graphic reproduction methods, and current technology available in finishing and bindery
- Experience real time production work in a graphics laboratory
- Train on state-of-the-art equipment in the most technically current printing facility available in a high school setting
- Work-based learning experience possible for second year seniors with acceptable grades, good attendance, and a recommendation; transportation required to work site
- Learn and use Adobe Photoshop, Illustrator & In-Design

Vincennes University credit may be earned for the following courses:

<i>DESN 120</i>	<i>Computer Illustration</i>	<i>3 credits</i>
<i>DESN 140</i>	<i>Computer Imaging</i>	<i>3 credits</i>
<i>ARTT 111</i>	<i>Visual Design</i>	<i>3 credits</i>
<i>DESN 155</i>	<i>Computer Page Layout</i>	<i>3 credits</i>

HEALTH SCIENCE EDUCATION I

Length/Credits: 3 period block; 3 credit
Offered: 2 semester program
Open to: Grades 11, 12
Prerequisite: Algebra 1 and English 10
Dual Credit: Ivy Tech Community College – 14 credits

COLLEGE CREDIT



- Experience the high demand of the health care field
- Build foundational skills in preparation to enter the medical field: medical, dental, laboratory, or nursing
- Focus on medical terminology, anatomy/ physiology, professional development (career investigation, job search, medical hands-on tasks, leadership, etc.), and Certified Nurse Aide (CNA) training
- Complete a clinical experience at an approved health care facility under the supervision of a licensed nurse
- Required physical (\$25), TB tests and documentation (\$25), and criminal background check (\$21.00)
- Other costs possible: transportation and the state certification exam (approximately \$75.00)
- Required uniform cost is approximately \$60-\$80
- Grades, classroom performance, and attendance are reviewed before acceptance in a second year program
- CPR certification approximately \$30

NOTICE: Students in this program may be assigned to a Brownsburg or Wayne Township location based on considerations such as program enrollment numbers and the student's home high school. The Area

31 Enrollment Committee makes enrollment decisions and placement decisions are made by Area 31 Career Center administration.

Ivy Tech Community College credits may be earned in the following courses if the student completes the course with a grade of A or B. Identified * courses must pass Accuplacer testing:

<i>HLHS 100 Intro to Health Careers</i>	<i>3 credits</i>
<i>*HLHS 101 Medical Terminology</i>	<i>3 credits</i>
<i>HLHS 107 CNA Preparation</i>	<i>5 credits</i>
<i>HLHS 102 Essentials of Anatomy and Physiology</i>	<i>3 credits</i>

HEALTH SCIENCE EDUCATION II (CNA WBL)

Length/Credits: 3 period block; 3 credit

Offered: 2 semester program

Open to: Grades 12

Prerequisite: Teacher recommendation and State CNA Certification
CPR Certification

- On the job training; work in a health-related environment
- Completion of the CNA certification will increase employment possibilities
- Students must furnish their own transportation to job sites

HEATING AND AIR - HVAC I HEATING AND AIR - HVAC II

COLLEGE CREDIT



Length/Credits: 3 period block; 3 credits

Offered: 4 semester program

Open to: Grades 11, 12

Prerequisite: Algebra 1 and English 10

Dual Credit: Ivy Tech Community College – 9 credits

- Prepare and explore careers in the field of Heating and Air
- Study tools, safety, electrical circuits, proper handling of equipment, temperature control, installation of equipment, sheet metal layout and design, pipefitting, and work attitudes
- Work based learning experience possible for second year seniors with recommendation and transportation to job site
- Opportunity to earn OSHA certification and EPA certifications

Ivy Tech Community College credits may be earned for the following course:

<i>HVAC 101 Heating Fundamentals</i>	<i>3 credits</i>
<i>HVAC 103 Refrigeration I</i>	<i>3 credits</i>
<i>HVAC 100 Intro to HVAC Tech</i>	<i>3 credits</i>

HORTICULTURE SCIENCE I HORTICULTURE SCIENCE II

Length/Credits: 3 period block; 3 credits

Offered: 4 semester program

Open to: Grades 11, 12

Prerequisite: Algebra 1 and English 10

COLLEGE CREDIT

Dual Credit: Ivy Tech Community College – 15 credits

- Study basic horticulture & landscape skills and career opportunities
- Understand common horticultural and agricultural diseases and pests, and the management of each
- Identify common horticultural plants and understand best uses
- Perform plant and vegetable production in greenhouse setting
- Understand the size and productivity of farms and ranches in the US and around the world
- Understand US production systems for major grain crops, including Crop Rotation Systems, Tillage Systems, Variety Selection, and Harvest and grain storage technology
- Have students recognize the role of producers, input suppliers, food marketing organizations, and consumers in the U.S. Agricultural economy
- Help students understand and develop the qualities and characteristics employers in agribusiness expect in prospective employees

Ivy Tech credits may be earned for the following courses:

Year 1

AGRI 100	Introduction to Agriculture	3 credits
AGRI 116	Survey of Horticulture	3 credits
AGR 117	Soil Science	3 credits

Year 2

AGRI 175	Introduction to Greenhouse Mgmt	3 credits
AGRI 129	Alternative Growing Methods	3 credits

MEDICAL ASSISTING

Length/Credits: 3 period block; 3 credits

Offered: 2 semester program

Open to: Grade 12

Prerequisite: Algebra 1 and English 10

Dual Credit: Ivy Tech Community College 15.5 credits

COLLEGE CREDIT



- Learn duties and responsibilities of administrative and clinical medical assistants
- Learn to assist in minor surgical procedures, record vital signs, perform venipuncture, administer EKGs and injections, CPR Training
- Understand anatomy and physiology: all body systems and organization
- Study exam room procedures, aseptic practices, medical spelling and terminology, and law and ethics
- Learn to implement basic accounting procedures, file insurance claims, bill and schedule patients, prepare medical charts, reports, keyboarding and dictation and correspondence
- After graduation students who complete the program with a 70% or above will be eligible to take the CCMA certification
- Requirements: approved uniform, shoes, TB and Hepatitis B health certificates

NOTICE: Students in this program may be assigned to a Brownsburg or Wayne Township location based on considerations such as program enrollment numbers and the student's home high school. The Area 31 Enrollment Committee makes enrollment decisions and placement decisions are made by Area 31 Career Center administration.

Ivy Tech credits may be earned for the following courses:

Fall

<i>HLHS 100 Intro to Health Careers</i>	<i>3 credits</i>
<i>HLHS 104 CPR/Basic Life Support</i>	<i>.5 credit</i>

Spring

<i>HLHS 101 Medical Terminology</i>	<i>3 credits</i>
<i>HLHS 102 Essentials of Anatomy and Physiology</i>	<i>3 credits</i>
<i>MEAS 225 CCMA Development Prep</i>	<i>6 credits</i>

**NETWORKING & CYBERSECURITY I
NETWORKING & CYBERSECURITY II**

COLLEGE CREDIT



Length/Credits: 3 period block; 3 credits

Offered: 4 semester program

Open to: Grades 11, 12

Prerequisite: Algebra 1 and English 10

Dual Credit: Vincennes University – 36 credits



Early College Program -
Students in this program work toward a Vincennes
Associate Degree

- Learn the basics of cybersecurity through labs and activities
- Perform some of the routine tasks of a cybercrime and computer forensics investigator
- Learn how to ethically hack computer systems
- Perform activities and labs that enable you to become a Windows 10 technician
- Learn how to build a virtual environment and keep them safe
- Engage in activities that can help you become a pro in data security
- Through labs and hands on learning how to build your own CISCO Network
- Opportunity to earn CISCO certification, COMP TIA certification, and A+ certification

NOTICE: Students in this program’s first year may be assigned to a Brownsburg or Wayne Township location based on considerations such as program enrollment numbers and the student’s home high school. The Area 31 Enrollment Committee makes enrollment decisions and placement decisions are made by Area 31 Career Center administration.

Vincennes University credits may be earned for the following courses and may include at \$25 per credit hour:

Fall Year 1

<i>CNET 151 Information and Data Security I</i>	<i>3 credits</i>
<i>CNET 155 Basic Cyber Crime and Computer Forensics</i>	<i>3 credits</i>
<i>CNET 146 Intro to Network Operations and Security</i>	<i>3 credits</i>

Spring Year 1

<i>COMP 146 Computer Configuration and Mgmt I</i>	<i>3 credits</i>
<i>CNET 246 Fundamentals in Networking Ops</i>	<i>3 credits</i>
<i>CNET 251 Information and Data Security II</i>	<i>3 credits</i>
<i>CNET 255 Adv Research in Cyber Crime and Forensics</i>	<i>3 credits</i>

Fall Year 2

<i>CNET 237 Operating Systems II</i>	<i>3 credits</i>
<i>COMP 177 Intro Programming Logic</i>	<i>3 credits</i>
<i>CNET 236 Operating Systems I</i>	<i>3 credits</i>

Spring Year 2

CNET 227 *Cybersecurity Operations* 3 credits
 COMP 232 *Business Driven Communications and Net* 3 credits

PHARMACY TECH I

COLLEGE CREDIT

Length/Credits: 3 period block; 3 credits

Offered: 2 semester program
 Open to: Grade 11, 12
 Prerequisite: Algebra 1 and English 10; GPA 2.3
 Dual Credit: Vincennes University – 22 credits



Early College Program -
 Students in this program work toward a Vincennes
 Associate Degree

Note: Students must provide a background check in order to apply for Indiana Technician in Training License; Accuplacer testing required for acceptance (Reading: 250+, Writing: 250+, Quantitative Reasoning: 245+)

- Learn how to assist licensed pharmacists and provide medication and other healthcare products to patients
- Perform routine duties such as counting tablets, labeling bottles, updating patient information and processing insurance claims
- Learn about patient confidentiality and ethics governing pharmacy practice; policies and procedures related to a pharmacy tech position; purchasing, inventory control, and record keeping involved in drug orders
- Conduct labs including storage, packaging, and labeling requirements of drugs, prescriptions, and drug orders
- Apply arithmetic calculations required for dosage determinations
- Job shadow and include other work-based learning activities
- All students will need to obtain a drug screening and background check

Students may earn Vincennes University credits at \$25 per credit hour for the following courses with required grade. Identified *courses must pass Accuplacer testing: Reading: 250+, Writing: 250+, Quantitative Reasoning: 245+)

Fall Semester

**HIMT 110 Medical Term* 3 credits
PHRM 105 Pharmacology I 3 credits
PHRM 110 Dispensing Lab I 2 credits
PHRM 220 Pharmacy Calculations 3 credits

Spring Semester

PHRM 206 Pharmacology II 3 credits
PHRM 211 Dispensing Lab II 2 credits
PHRM 115 Pharmacy Law for Technicians 3 credits
PHRM 200 Pharmacy Mgmt 3 credits

**PHARMACY TECH II
 (WBL)**

COLLEGE CREDIT

Length/Credits: 3 period block; 3 credits

Offered: 2 semester program
 Open to: Grade 12
 Prerequisite: Pharmacy Tech I
 Dual Credit: Vincennes University – 5 credits



Early College Program -
 Students in this program work toward a Vincennes
 Associate Degree

- On the job training; work in a Pharmacy environment
- Students must furnish their own transportation to job sites

Students may earn Vincennes University credits at \$25 per credit hour for the following courses with required grade.

PHRM 225 Practicum 5 credits

**PRECISION MACHINING I
PRECISION MACHINING II**

COLLEGE CREDIT

Length/Credits: 3 period block; 3 credits
 Offered: 4 semester program
 Open to: Grades 11, 12
 Prerequisite: Algebra 1 and English 10
 Dual Credit: Vincennes University – 21 credits



Early College Program -
 Students in this program work toward a Vincennes Associate Degree

- Develop skills to become employed immediately out of school
- Prepare for employment within the machine tool technology industry
- Study measurement, layout and inspection; machine tool processes and operations; metallurgy, welding, shop math, and reading blueprints
- Learn operation of band saw, drill press, lathe, milling machine and surface grinder
- College Credits transferable into Vincennes University’s Machine Trades Technology programs
- Opportunity to obtain APICS Certificate: Logistics; APICS Certificate: Operations; MSSC Certificate: Certified Logistics Associate

Vincennes University credits may be earned for the following courses:

1st Year

PMTD 110 Manufacturing Processes 2 credits
PMTD 110L Manufacturing Processes Lab 1 credit
PMTD 120 General Machines 6 credits
PMTD 105 Metallurgy & Industrial Blueprint 2 credits

2nd Year

PMTD 116 Introduction to CNC Programming 2 credits
PMTD 111 Advanced Machine Tools I 3 credits
PMTD 115 CNC Set Up and Operation 2 credits
PMTD 112 Advanced Machine Tools II 3 credits

**RADIO BROADCASTING I
RADIO BROADCASTING II**

Length/Credits: 1, 2 or 3 periods; up to 3 credits
 Offered: 4 semester program
 Open to: Grades 11, 12
 Prerequisite: Algebra 1 and English 10
 Dual Credit: Vincennes University – 6 credits

COLLEGE CREDIT

- You could be on the air, 90.9, "First on your dial for variety,"
- Learn firsthand on WBDG, a student run 400 Watt FCC-licensed FM radio station

- Learn basic operation of a radio station, radio programming, voice and diction, organization, time management, and teamwork
- Specialty areas include: sports announcing, disc jockeying, voice-over work, news casting, news reporting, broadcast writing, non-commercial fundraising, and audio production
- Complete real-world projects and learn by doing, by correcting mistakes, and by improving on a daily basis
- May require before, during, and after school assignments as a part of the course curriculum

Vincennes University credit may be earned for the following courses:

Year 1

BCST 102 Intro Audio/Visual Production 3 credits

Year 2

BCST 120 Audio Production I 3 credits

SUPPLY CHAIN MANAGEMENT

Length/Credits: 3 periods – 3 credits

COLLEGE CREDIT



Offered: 2 semesters

Open to: Grades 12

Prerequisite: Algebra 1 and English 10

Dual Credit: Ivy Tech – 15 Credits

Certifications: MSSC Certified Logistics Technician & MSSC Certified Logistics Associate

NOTE: Location of class at the “MADE” Plainfield facility, students will meet on Wednesday afternoons, other days will be on-line.

- Explore basic concepts of supply chain management, customer service, transportation, purchasing, inventory, and warehouse management.
- Study the concepts of Lean disciplines relating to the ability of an enterprise to develop a work environment that promotes continuous improvement, eliminates waste, reduces operating cost, improves quality, and achieves measurable improvement in customer satisfaction.
- Learn strategic concepts such as planning and design, customer service, transportation, purchasing, forecasting, inventory and warehouse management.
- Focus on the logistics sector of business by examining the structure and importance of the commercial transportation industry.

Ivy Tech Community College credits may be earned for the following course with required grade

Fall

LOGM 127 Intro to Logistics 3 credits

LOGM 229 Transportation Systems 3 credits

LOGM 280 Logistic Coop-Intern/Externship 3 credits

Spring

LOGM 201 Logistics Quality & Lean Mfg 3 credits

LOGM 227 Supply Chain Mgmt 3 credits

TELEVISION BROADCASTING I

TELEVISION BROADCASTING II

COLLEGE CREDIT

Length/Credits: 2 or 3 periods; up to 3 credits

Offered: 4 semester program

Open to: Grades 11, 12
Prerequisite: Algebra 1 and English 10
Dual Credit: Vincennes University – 6 credits

- Be a star on WBDTV or work behind the scenes; lights, cameras, action!
- Learn television camera operations, audio, lighting, writing, and editing
- “Hands-on” approach to learning about studio production: anchoring, directing, producing, studio cameras, audio, and studio lighting
- Produce programming that will be aired on closed-circuit television at Ben Davis High School

Vincennes University credits may be earned for the following courses *with required grade and Accuplacer scores:*

Year 1

BCST 102 *Intro to Audio/Visual Production* 3 credits

Year 2

BCST 140 *Video Production I* 3 credits

TRACTOR/TRAILER OPERATION

COLLEGE CREDIT



Length/Credits: 3 period block, 3 credits
Offered: 1 semester program (Spring)
Open to: Grades 12
Prerequisite: Algebra 1 and English 10
Dual Credit: Vincennes University – 18 credits; TTD 9130 Certificate of Program Completion (C.P.C.)
NOTE: Students must provide their own transportation to Vincennes University – CDL (ESEC training center), 700 N. High School Rd Suite 205, Indianapolis, IN 46214

Offered Semester 2 only

Requirements:

- must be 18 years old by March 1
- Must have held a valid Indiana Operator’s License for at least 1 year

Course Description:

- Provided by Vincennes University
- Participate in classroom instruction - Monday through Friday from either 7:30-10:00 am., or 12:30-3:00 p.m. (First 8 weeks of the semester)
- Remaining weeks focus on hands-on, behind-the-wheel, road driving experience and backing skills and vehicle inspection
- Must pass a DOT physical exam and drug screen; to be administered prior to hands-on training

Approximate expenses for student include:

- \$17 CDL Learners Permit (CLP): payable to the IN BMV
- \$36 Commercial Driver’s License, payable to the IN BMV
- \$4 Motor Vehicle Record
- \$175 for additional test attempts, if needed

Upon passing the IN State BMV exam, students will be qualified to operate Class A commercial vehicles on Indiana roads.

Vincennes University credits may be earned in the following courses upon successful completion of the program with a grade of 80% or higher:

TTDT 100	<i>Basic Commercial Operations</i>	<i>3 credits</i>
TTDT 125	<i>Preventative Maintenance</i>	<i>5 credits</i>
TTDT 150	<i>Basic Control Skills</i>	<i>5 credits</i>
TTDT 175	<i>Road Driving</i>	<i>5 credits</i>

WELDING TECHNOLOGY I

Length/Credits: 3 periods – 3 credits

Offered: 2 semester program

Open to: Grades 11, 12

Prerequisite: Algebra 1 and English 10

Dual Credit: Vincennes University – 9 credits

COLLEGE CREDIT



- Become proficient in welding processes including: SMAW (stick), GMAW (MIG), and GTAW (TIG)
- Study industry standards in safety, blueprint reading, fabrication techniques and welding procedures
- Earn American Welding Society (AWS) SENSE: Entry Level Welder certification upon completing the course and passing certification test
- Earn S/P2 (Safety & Pollution) certification

<i>WELD 100</i>	<i>Welding Fundamentals</i>	<i>3 credits</i>
<i>WELD 108</i>	<i>Shielded Metal Arc Welding I</i>	<i>3 credits</i>
<i>WELD 207</i>	<i>Gas Metal Arc (MIG) Welding</i>	<i>3 credits</i>