



2016-2017 CURRICULUM

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. 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 I & II**
- American Sign Language I & II**
- Automotive Service Technology I & II**
- Aviation Flight**
- Aviation Operations Management**
- Aerospace Engineering**
- Aviation Maintenance Technology I & II**
- CISCO Networking Academy I & II**
- Collision Repair Technology I & II**
- Computer Tech Support**
- 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 **
- Early Childhood Education I**
- Early Childhood Education II (Co-op)**
- Emergency Medical Services (Fire & Rescue II)**
- Fire and Rescue I**
- Graphic Imaging Technology I & II**
- Health Science Education I**
- Health Science Education II (CNA Co-op)**
- Heating and Air (HVAC I & II)**
- Horticulture & Landscape Mgmt I & II**
- Medical Assisting**
- Pharmacy Tech**

- Precision Machining I & II**
- Radio Broadcasting I & II**
- Supply Chain Management/Logistics
- Television Broadcasting I & II**
- Tractor/Trailer Operation**
- Welding Technology**

**College credit available

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 I

Length/Credits: 1 period – 1 credit
 Offered: 2 semester program (AM & PM)
 Open to: Grade 10, 11, 12
 Prerequisite: None



Dual Credit: Ivy Tech Community College – 9 credits

- Use modern manufacturing processes to obtain resources and change them into industrial materials and consumer products
- Investigate properties of engineered materials such as: metallics; polymers; ceramics; and composites
- Study six major types of material processes: casting and molding; forming; separating; conditioning; finishing; and assembling
- Gain a basic understanding of tooling, electrical skills, operation skills, inventory principles, Material Safety Data Sheets, chart and graph reading, and Manufacturing Skills Standards Council (MSSC) concepts
- Obtain APICS Certificate: Logistics; APICS Certificate: Operations; MSSC Certificate: Certified Logistics Associate

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

<i>MPRO 100</i>	<i>Intro to Plant Floor & CNC</i>	<i>3 credits</i>
<i>MPRO 106</i>	<i>Intro to Workplace Safety</i>	<i>3 credits</i>
<i>ADMF 101</i>	<i>Key Princ of Manufacturing</i>	<i>3 credits</i>



ADVANCED MANUFACTURING II

Length/Credits: 3 period block; 3 credits
 Offered: 2 semester program (AM only)
 Open to: Grade 11, 12



Prerequisite: Advanced Manufacturing I
 Dual Credit: Ivy Tech Community College – 12 credits

- Introduce to basic blueprint reading, Computer Numerical Control (CNC) operation, and commonly used skills in the manufacturing industry
- Use Computer Aided Design software (CAD) to create 3D models and working drawings.
- Setup and operate a CNC mill and lathe using multiple machine tool controllers
- Study robotics, automation and Computer Integrated Manufacturing Technology (CIMT)
- Obtain MSSC Certificate: Safety; Quality, Mfg. Processes and Production, and Maintenance Awareness. (Certified Production Technician Accreditation)

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

<i>MPRO 122</i>	<i>Mech/Elect</i>	<i>3 credits</i>
<i>MPRO 102</i>	<i>Print Reading</i>	<i>3 credits</i>
<i>MPRO 201</i>	<i>Lean Mfg.</i>	<i>3 credits</i>
<i>ADMF 102</i>	<i>Tech in Adv. Manufacturing</i>	<i>3 credits</i>



AMERICAN SIGN LANGUAGE I

Length/Credits: 3 period block; 3 credits
 Offered: 2 semester program (AM only)
 Open to: Grades 11, 12
 Prerequisite: Must meet Accuplacer requirements through testing
 Dual Credit: Vincennes University - 18 credits



Note: Fulfills a World Language requirement for the Core 40 with Academic Honors diploma or counts as a Directed Elective or Elective for any diploma

- Learn and use American Sign Language (ASL) to communicate with others
- Study the deaf and hard of hearing community
- Identify careers that involve knowledge and use of American Sign Language
- Study teaching strategies and how knowledge of ASL can improve the field of education

Vincennes University credits may be earned for the following courses:

<i>ASLG 101</i>	<i>American Sign Language I</i>	<i>4 credits</i>
<i>ASLG 111</i>	<i>The Deaf Community</i>	<i>3 credits</i>
<i>ASLG 207</i>	<i>The Deaf Culture</i>	<i>3 credits</i>
<i>ASLG 103</i>	<i>American Sign Language II</i>	<i>4 credits</i>
<i>ASLG Liter</i>	<i>Deaf Literature</i>	<i>3 credits</i>
<i>ASLG 215</i>	<i>Careers in American Sign Lang.</i>	<i>1 credits</i>

AMERICAN SIGN LANGUAGE II

Length/Credits: 3 period block; 3 credits

Offered: 2 semester program (PM only)

Open to: Grades 12

Prerequisite: Completion of American Sign Language I

Dual Credit: Vincennes University – Credits TBA



Note: Fulfills a World Language requirement for the Core 40 with Academic Honors diploma or counts as a Directed Elective or Elective for any diploma

- Continue learning and use of American Sign Language (ASL) to communicate with others
 - Exploring use of Facial Expressions in communication
 - Emphasis on Grammar
 - Class will be held at the Indiana School for the Deaf, 1200 E 42nd St, Indianapolis; student must provide own transportation
- Vincennes University credits may be earned for courses TBA.

AUTOMOTIVE SERVICE TECHNOLOGY I

AUTOMOTIVE SERVICE TECHNOLOGY II

Length/Credits: 3 period block; 3 credits

Offered: 4 semester program

Open to: Grades 11, 12 (1st yr-AM/ 1st & 2nd yr-PM)

Prerequisite: None

Dual Credit: Ivy Tech Community College – 18 credits / University of Northwestern Ohio- 12 credits / Lincoln Tech – 12 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

Ivy Tech credit can be earned for the following courses:

<i>AUTC 100</i>	<i>Intro to Transportation</i>	<i>3 credits</i>
<i>AUTC 109</i>	<i>Engine Performance</i>	<i>3 credits</i>
<i>AUTC 127</i>	<i>Engine Repair</i>	<i>3 credits</i>
<i>AUTC 107</i>	<i>Engine Fundamentals</i>	<i>3 credits</i>
<i>AUTC 113</i>	<i>Electrical & Electronics</i>	<i>3 credits</i>
<i>AUTC 122</i>	<i>Braking System</i>	<i>3 credits</i>

University of Northwestern Ohio credit can be earned for the following courses:

<i>AU 126</i>	<i>Suspension & Steering</i>	<i>6 credits</i>
<i>AU 127</i>	<i>Hydraulic Brake System</i>	<i>6 credits</i>

Lincoln Tech College credit can be earned for the following courses:

<i>AT110</i>	<i>Automotive Brake Syst.</i>	<i>3 credits</i>
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AT111	<i>Steering & Suspension</i>	3 credits
AT101	<i>Gasoline Engines</i>	3 credits
AT106	<i>Transmission/Drive Lines</i>	3 credits

AVIATION FLIGHT

Length/Credits: 1 period; 1 credit (AM)

Offered: 2 semester program

Open to: Grades 11, 12

Prerequisite: None

Dual Credit: Vincennes University - 9 credits



- Learn skills needed to pass the Federal Aviation Agency written pilot examination
- Study theory of aerodynamics, aircraft performance specifications, weight and balance, Airman's Information Manual, ground and flight maneuvers required for flight, complete study of piston type aircraft engines, accessories and propellers
- Develop skills for navigation, meteorology, radio, communications, and Federal Air Regulations

Vincennes credit may be earned for the following courses during the first hour:

Sem. 1

AFLT 210 *Instruments, Radios, Systems* 2 credits

AFLT 160 *Power Plant Lecture* 2 credits

Sem. 2

AFLT 100 *Primary Ground School* 5 credits

AVIATION OPERATIONS MANAGEMENT

Length/Credits: 1 period; 1 credit (AM)

Offered: 2 semester program

Open to: Grades 11, 12

Prerequisite: None

Dual Credit: Vincennes University – 5 credits



- Explore employment opportunities and careers IN AVIATION
- Develop skills in aviation safety practices, aviation regulations, regulatory process, federal regulatory systems
- Acquire initial skills required for a career and degree in Airport Management, Airline Management and Air Traffic Control

Vincennes credit may be earned for the following courses during the second hour:

AMNT 100 *Intro to Aviation* 2 credits

AFLT 258 *Air Transportation* 3 credits

AVIATION AEROSPACE ENGINEERING (PLTW)

Length/Credits: 1 period; 1 credit (AM)

Offered: 2 semester program

Open to: Grades 11, 12

Prerequisite: None

Dual Credit: Vincennes University -7 credits



- Apply mathematical, scientific, and engineering principles to aerospace concepts
- Design, develop, and evaluate aircraft, space vehicles and their operating systems
- Design, test, and evaluate a variety of air and space vehicles with creative thinking and problem-solving skills
- Investigate characteristics of flight and aerodynamics

Vincennes University credit can be earned for the following

AFLT 190 *Aircraft Propulsion & System* 4 credits

AMNT 103 *Aircraft Science* 3 credits

AVIATION MAINTENANCE I

AVIATION MAINTENANCE II



Length/Credits: 3 period block; 3 credits
 Offered: 2 or 4 semester program (1st yr-PM/ 2nd yr-AM)
 Open to: Grade 11, 12
 Prerequisite: None
 Dual Credit: Vincennes University -40 credits
 Note: Students must provide their own transportation to ATC, 2175 S. Hoffman Road, Indianapolis

- 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).
- Acquire own set of tools (approximately \$800 first year, \$1,000 second year); tool list provided by instructor
- Note: if enrolled as Early College Program, summer classes will be required between junior and senior years

Vincennes credit can be earned for the following courses:

Sem. 1

AMNT 102 *Aviation Maintenance* 4 credits
 AMNT 106 *Materials, Process, and Welding* 4 credits

Sem. 2

AMNT 162 *Sheet Metal* 4 credits
 AMNT 166 *Composite Structures* 4 credits

Summer Semester for Early College

AMNT 107 *Hydraulics & Pneumatics* 4 credits
 AMNT 164 *Aircraft Systems* 4 credits

Sem. 3

AMNT 104 *Intro to Electricity* 4 credits
 AMNT 167 *Aircraft Electrical* 4 credits

Sem. 4

AMNT 266 *Aircraft Inspection* 4 credits
 AMNT 274 *FAA Certification* 4 credits

CISCO NETWORKING ACADEMY I

CISCO NETWORKING ACADEMY II



Length/Credits: 1 period, 1 credit per period
 Offered: 4 semester program (AM/PM)
 Open to: Grades 11, 12
 Prerequisite: Algebra I,
 Dual Credit: Vincennes University – 6 credits

- Learn Internet theory and networking skills: build network cables, pull cables, use switches and routers, IP addressing (including subnet masks), router configurations and protocols
- Develop skills to troubleshoot network systems
- Become competent working with CISCO Networking program
- Use online technology for learning networking concepts
- Earn “CISCO certification” upon successfully completion of course material and certification testing

Vincennes University credit can be earned for the following courses:

CPNS 101 *LAN Basics & OSI Model* 3 credits
 CPNS 102 *WAN Basics & Routers* 3 credits



COLLISION REPAIR TECHNOLOGY I
COLLISION REPAIR TECHNOLOGY II



Length/Credits: 3 period block; 3 credits
Offered: 4 semester program (1st yr-AM/ 1st & 2nd yr-PM)
Open to: Grades 11, 12
Prerequisite: None
Dual Credit: Vincennes University – 16 credits
Note: Juniors are scheduled into the morning class; seniors are scheduled into the afternoon class.

- Transform dents and dings into works of art
- 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; metalworking skills; hammer and dolly filler applications; blocking and sanding; shrinking and stretching methods; refinishing techniques and use of spray painting equipment, computerized mixing and matching of paints (solvent and water based)
- Develop skills in MIG 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

Vincennes University credits may be earned for the following courses:

<i>BODY 100</i>	<i>Body Repair I</i>	<i>3 credits</i>
<i>BODY 100L</i>	<i>Body Repair I Lab</i>	<i>4 credits</i>
<i>AUTO 105</i>	<i>Transportation Fundamentals</i>	<i>2 credits</i>
<i>BODY 150</i>	<i>Body Repair II</i>	<i>3 credits</i>
<i>BODY 150L</i>	<i>Body Repair II Lab</i>	<i>4 credits</i>

COMPUTER TECH SUPPORT
(COMPUTER REPAIR)



Length/Credits: 2 period block; 2 credits
Offered: 2 semester program (AM/PM)
Open to: Grades 11, 12
Prerequisite: None
Dual Credit: Vincennes University – 6 credits

- Create a network, hack your rivals, and win if you keep them out too!
- Troubleshoot and repair real computer hardware and software
- Learn basic systems technology concepts and management, personal computer components, common problems
- Learn to network operating systems: install, administer, control, manage and diagnose problems on a variety of systems
- Earn A+ Certification
- Engage in work based learning experience for second year seniors with recommendation; transportation required

Vincennes University credits may be earned for the following course:

<i>CMET 140</i>	<i>Computer Maintenance I</i>	<i>3 credits</i>
<i>CMET 185</i>	<i>Computer Maintenance II</i>	<i>3 credits</i>



CONSTRUCTION TRADES I
CONSTRUCTION TRADES II



Length/Credits: 3 period block; 3 credits
Offered: 4 semester program (1st & 2nd yr-AM/ 1st & 2nd yr-PM)
Open to: Grades 11, 12
Prerequisite: None
Dual Credit: Ivy Tech(Richmond) – 18 credits

- Experience construction from the foundation up
- Explore career possibilities in the construction industry: carpentry, masonry, electrical, plumbing, concrete, painting, roofing, and drywall
- 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
- Possible work based learning experience for second year seniors with recommendation and transportation to job site

Ivy Tech - Richmond credits for the following courses:

BCOT 104	Floor & Wall Layout	3 credits
BCOT 105	Roof Construction	3 credits
BCOT 114	Exterior Trim	3 credits
CONT 101	Intro to Construction	3 credits
CONT 102	Const. Materials & Spec	3 credits
BCOT 113	Interior Trim	3 credits

COSMETOLOGY I

COSMETOLOGY II



Length/Credits: 4 period block; 3 credits
 Offered: 4 semester program (1st yr AM & PM/ 2nd yr PM only)
 Open to: Grades 11, 12
 Prerequisite: None
 Note: Applicants must have a cumulative GPA of 2.0 (C average) and good attendance record
 Dual Credit: Vincennes University – 30 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 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 \$500; 2nd year cost is approximately \$250
- Provide a Non-refundable deposit of \$50 by June 1st; credited toward the cost of the kit
- Indiana State Board of Cosmetology Certification

Vincennes University credit can be earned for the following courses:

COSM 100	Cosmetology I	7 credits
COSM 150	Cosmetology II	7 credits
COSM 200	Cosmetology III	7 credits
COSM 250	Cosmetology IV	9 credits



CRIMINAL JUSTICE I

Length/Credits: 3 period block; 3 credits
 Offered: 2 semester program (AM/PM)
 Open to: Grades 11, 12
 Prerequisite: None
 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)

Vincennes University credits may be earned for the following courses:

LAW 100	Survey of Criminal Justice	3 credits
LAW 150	Introduction to Criminology	3 credits
LAW 160	Criminal Investigation	3 credits
LAW 106	Intro to Traffic Control	3 credits

CULINARY ARTS AND HOSPITALITY MANAGEMENT (I)

ADVANCED CULINARY ARTS (II)

Length/Credits: 3 period block; 3 credits

Offered: 4 semester program (1st yr-PM/2nd yr-AM)

Open to: Grades 11, 12

Prerequisite: None

Dual Credit: Vincennes University – 30 credits
Sullivan University – 14 credits



- 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 (1), and apron (2); approximate cost \$120

Vincennes University credit can be earned for the following courses:

<i>CULN 110</i>	<i>Quality Food Production</i>	<i>5 credits</i>
<i>REST 100</i>	<i>Intro to Hospitality Mgmt.</i>	<i>3 credits</i>
<i>REST 120</i>	<i>Food Service Sanitation</i>	<i>3 credits</i>
<i>REST 210</i>	<i>Beverage Sales Services</i>	<i>3 credits</i>
<i>REST 230</i>	<i>Menu Planning</i>	<i>3 credits</i>
<i>CULN 150</i>	<i>Adv. Culinary & Food</i>	<i>5 credits</i>
<i>CULN 215</i>	<i>Superv. of Quality foods</i>	<i>3 credits</i>
<i>CULN 260</i>	<i>Haute Cuisine & Speciality</i>	<i>5 credits</i>

Sullivan University credit can be earned for the following courses:

<i>BFS 104</i>	<i>Basic Culinary Skills Theory</i>	<i>4 credits</i>
<i>BFS 106</i>	<i>Basic Culinary Skills Lab</i>	<i>6 credits</i>
<i>CAM 134</i>	<i>Food Service Sanitation</i>	<i>4 credits</i>

DENTAL CAREERS

Length/Credits: 3 period block; 3 credits

Offered: 2 semester program

Open to: Grade 12

Prerequisite: None

Dual Credit: Kaplan College – 23 1/2 credits



- Participate in one of the fastest-growing occupations in the nation through the year 2020.
- 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
- Required to wear uniforms, white leather tennis shoes, and name tag
- Required to provide a TB and Hepatitis B health certificate

Kaplan College credit can be earned for the following courses:

<i>DAKL 151</i>	<i>Foundation Skills Dental Asst</i>	<i>6 credits</i>
<i>DAW 151</i>	<i>Tech & Terminology for Dental</i>	<i>6 credits</i>
<i>DAY 151</i>	<i>Diagnostic Assisting</i>	<i>5 credits</i>
<i>DAG 151</i>	<i>Patient Interaction</i>	<i>6.5 credits</i>

EARLY CHILDHOOD EDUCATION I

Length/Credits: 3 period block; 3 credits

Offered: 2 semester program (AM/PM)

Open to: Grades 11, 12

Prerequisite: None

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 History which is approximately \$20 - \$40
- 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:

Sem. 1

ECED 100 Intro to Early Childhood Ed 3 credits

Sem. 1

ECED 101 Health, Safety & Nutrition 3 credits

Sem. 2

ECED 103 Curriculum in the Classroom 3 credits

EARLY CHILDHOOD EDUCATION II (Coop)

Length/Credits: 3 period block; 3 credits

Offered: 2 semester program (AM/PM)

Open to: Grade 12

Prerequisite: 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
- Students will complete CDA portfolio/test/verification visits
- 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

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

ECED 105 CDA Process 3 credits



EMERGENCY MEDICAL SERVICES

(FIRE & RESCUE II)

Length/Credits: 2 period block; 2 credits

Offered: 2 semester program (AM/PM)

Open to: Grade 12

Prerequisite: None

Dual Credit: Vincennes University – 6 credits / Ivy Tech – 7.5 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
- Document clinical experiences, some to be completed on student's own time (evenings and weekends)
- Provide a limited criminal history check and immunization records
- State of Indiana Emergency Medical Technicians Certification available upon completion of standards and state test



- Required uniform will cost approximately \$60
- Vincennes University credits may be earned for the following course:
EMTB 212 Emergency Medical Technician-Basic 6 VU credits



Ivy Tech Community College credits may be earned for the following course:
PARM 102 Emergency Medical Technician-Basic 7.5 Ivy Tech credits

FIRE AND RESCUE I

Length/Credits: 3 period block; 3 credits

Offered: 2 semester program (PM only)

Open to: Grades 11, 12

Prerequisite: None

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
- Earn credits toward an associate degree program in Fire Science
- Uniform required: shirts, safety glasses, gloves; approximately \$120
- Physical may be 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 165</i>	<i>Firefighter I</i>	<i>3 credits</i>
<i>HSPS 167</i>	<i>Firefighter II</i>	<i>3 credits</i>
<i>PSAF 115</i>	<i>Hazmat Awareness</i>	<i>3 credits</i>

NOTE: Second year students should enroll in the Emergency Medical Services program. This will give students the opportunity to earn an additional college credits toward a fire science associate degree.

GRAPHIC IMAGING TECHNOLOGY I

GRAPHIC IMAGING TECHNOLOGY II

Length/Credits: 3 period block; 3 credits

Offered: 4 semester program (AM only)

Open to: Grades 11, 12

Prerequisite: None

Dual Credit: Vincennes University – 9 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

Vincennes University credit may be earned for the following courses:

<i>DESN 155</i>	<i>Computer Page Layout</i>	<i>3 credits</i>
<i>ARTT 120</i>	<i>Intro Traditional & Digital Photo</i>	<i>3 credits</i>
<i>DESN 120</i>	<i>Computer Illustration</i>	<i>3 credits</i>

HEALTH SCIENCE EDUCATION I

Length/Credits: 3 period block; 3 credit

Offered: 2 semester program (AM/PM)

Open to: Grades 11, 12

Prerequisite: None

Dual Credit: Ivy Tech Community College – 11 credits



- Experience the high demand of the healthcare 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 healthcare facility under the supervision of a licensed nurse
- Costs for clinical experience is approximately \$250 in addition to obtaining a physical, TB test, and criminal background check
- Other costs possible: transportation and the state certification exam (approximately \$75.00)
- Required uniform cost is approximately \$50
- Grades, classroom performance, and attendance are reviewed before acceptance in a second year program
- CPR certification approximately \$10

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 and passes Accuplacer test in the areas of math, reading, and writing.

HLHS 101	Medical Terminology	3 credits
HLHS 107	CNA Preparation	5 credits
HLHS 100	Intro to Health Careers	3 credits

HEALTH SCIENCE EDUCATION II

(CNA CO-OP)

Length/Credits: 3 period block; 3 credit

Offered: 2 semester program (PM only)

Open to: Grades 12

Prerequisite: Teacher recommendation and State CNA 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
- Or enroll in medical assisting, dental assisting, pharmacy technician, or emergency medical services programs



HEATING AND AIR - HVAC I

HEATING AND AIR - HVAC II

Length/Credits: 3 period block; 3 credits

Offered: 4 semester program (AM/PM)

Open to: Grades 11, 12

Prerequisite: None

Dual Credit: Ivy Tech Community College – 9 credits / U of NW Ohio – 6 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

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

HVAC 101	Heating Fundamentals	3 credits
HVAC 103	Refrigeration I	3 credits
INDT 113	Basic Electricity	3 credits

University of NW Ohio credits may be earned for the following course:

HV 101	Service & Procedures	6 credits
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HORTICULTURE & LANDSCAPE MANAGEMENT I
HORTICULTURE & LANDSCAPE MANAGEMENT II

Length/Credits: 3 period block; 3 credits

Offered: 4 semester program (AM/PM)

Open to: Grades 11, 12

Prerequisite: None



College
Credit

Dual Credit: Vincennes University – 12 credits

- Study basic horticulture & landscape skills and career opportunities
- Practice landscaping, study weed problems and control, non-pathogenic problems and diseases, and management of these problems
- Identify plants for landscaping and turf management & horticulture management
- Analyze growth characteristics of grass species used in lawns in the Midwest and Great Lakes areas
- Experience horticulture & landscape labs that include greenhouse and outdoor work

Vincennes University credits may be earned for the following courses:

<i>HORT 105</i>	<i>Intro to Horticulture</i>	<i>3 credits</i>
<i>AGBS 101</i>	<i>Intro to Agribusiness mgt.</i>	<i>3 credits</i>
<i>HORT 205</i>	<i>Elementary Design</i>	<i>3 credits</i>
<i>HORT 255</i>	<i>Advanced Landscape</i>	<i>3 credits</i>

MEDICAL ASSISTING

Length/Credits: 3 period block; 3 credits

Offered: 2 semester program

Open to: Grade 12

Prerequisite: None

Dual Credit: Kaplan College – 21 credits

Note: Students must provide a TB and Hepatitis B health certificate.



College
Credit

- complete part of the Kaplan Medical Assisting curriculum in this one year program
- 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
- Understand anatomy and physiology: all body systems and organization
- Study exam room procedures, aseptic practices, 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
- Requirements: Kaplan approved uniform, shoes, nametag, TB and Hepatitis B health certificate.
- After graduation, students will need to complete the program at Kaplan as well as a 2-3 month externship
- Taught by Kaplan College at Area 31 Career Center

Kaplan College credit can be earned for the following courses:

<i>AH 101</i>	<i>Fund. Of Allied Health</i>	<i>3 credits</i>
<i>AH 102</i>	<i>Intro to Allied Health Careers</i>	<i>4 credits</i>
<i>CS 101</i>	<i>Academic Strategies</i>	<i>4 credits</i>
<i>CS 102</i>	<i>Academic Skills</i>	<i>4 credits</i>
<i>MAY 155</i>	<i>Integumentary, Urinary, & Repro</i>	<i>6 credits</i>

PHARMACY TECH

Length/Credits: 3 period block; 3 credits

Offered: 2 semester program (AM/PM)

Open to: Grade 12

Prerequisite: None



College
Credit

Dual Credit: Vincennes University – 25 credits

Note: Students must provide a background check in order to apply for Indiana Technician in Training License.

- 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 contacting insurance companies

- 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
- Required uniform cost is approximately \$86

Students may earn Vincennes University credits for the following courses:

<i>HIMT 110</i>	<i>Medical Term</i>	<i>3 credits</i>
<i>PHARM 105</i>	<i>Pharmacology I</i>	<i>3 credits</i>
<i>PHARM 106</i>	<i>Pharmacology II</i>	<i>3 credits</i>
<i>PHARM 110</i>	<i>Dispensing Lab I</i>	<i>2 credits</i>
<i>PHARM 111</i>	<i>Dispensing Lab II</i>	<i>3 credits</i>
<i>PHARM 115</i>	<i>Pharmacy Law</i>	<i>for Tech 3 credits</i>
<i>PHARM 120</i>	<i>Pharmacy Calculations</i>	<i>3 credits</i>
<i>PHARM 125</i>	<i>Practicum</i>	<i>2 credits</i>
<i>PHARM 200</i>	<i>Pharmacy Mgmt</i>	<i>3 credits</i>

PRECISION MACHINING I

PRECISION MACHINING II

Length/Credits: 3 period block; 3 credits
 Offered: 4 semester program (AM/PM)
 Open to: Grades 11, 12
 Prerequisite: Algebra I



Dual Credit: Vincennes University – 38 credits

- 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

Vincennes University credits may be earned for the following courses:

<i>PMTD 105</i>	<i>Metalogy & Blueprint</i>	<i>2 credits</i>
<i>PMTD 110</i>	<i>Manufacturing Processes</i>	<i>3 credits</i>
<i>PMTD 111</i>	<i>General Machine Lab</i>	<i>3 credits</i>
<i>PMTD 125</i>	<i>CNC Programming</i>	<i>3 credits</i>
<i>PMTD 150</i>	<i>Precision Tooling</i>	<i>6 credits</i>
<i>WELD 160</i>	<i>General Welding</i>	<i>2 credits</i>
<i>WELD 165</i>	<i>Adv. General Welding</i>	<i>2 credits</i>
<i>PMTD 108</i>	<i>Intro to Machining I</i>	<i>2 credits</i>
<i>PMTD 120</i>	<i>General Machines</i>	<i>6 credits</i>
<i>PMTD 109</i>	<i>Intro to Machine II</i>	<i>2 credits</i>
<i>PMTD 122</i>	<i>Advanced Machine III</i>	<i>3 credits</i>
<i>PMTD 145</i>	<i>Quality Assurance</i>	<i>4 credits</i>

RADIO BROADCASTING I

Length/Credits: 1, 2 or 3 periods; up to 3 credits
 Offered: 2 semester program (1st yr-AM)
 Open to: Grades 11, 12
 Prerequisite: None
 Dual Credit: Vincennes University – 3 credits



- 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:

MCOM 102 Audio/Visual Production 3 credits

RADIO BROADCASTING II

Length/Credits: 1, 2, or 3 periods; up to 3 credits
 Offered: 2 semester program (2nd yr-PM)
 Open to: Grades 12
 Prerequisite: Instructor's approval
 Dual Credit: Vincennes University – 3 credits



- Broadcast your own radio show on the air
- Members become leaders in the WBDG program
- Management opportunities available
- Internships possible
- Projects and skills in Radio Broadcasting
- Day-to-day WBDG management responsibilities
- 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:

MDIA 120 Audio Production I 3 credits

SUPPLY CHAIN MANAGEMENT/LOGISTICS

Length/Credits: 3 periods – 3 credits
 Offered: 2 semesters (PM only)
 Open to: Grades 11, 12
 Recommended
 Prerequisite: Introduction to Advanced Manufacturing
 Certification: GLA – Global Logistics Associates program includes:
 10 Hour OSHA General Safety Training
 FLE – Fork-lift Essentials (for students 18 or older)



NOTE: Students must provide their own transportation to Vincennes University Logistics Training and Education Center, 853 S. Columbia Rd., Suite 151, Plainfield, Indiana

- Explore the variety of entry-level positions in the field of supply chain management and logistics
- First semester students will participate in the Global Logistics Associate certification program (GLA). This program focuses on general knowledge of transportation/logistics and the associated operations necessary for the delivery of goods
- Subjects covered include: workplace essentials, supply chain management, transportation management, warehouse management, computer systems, and safety and awareness
- Students will have extensive hands-on instruction and experience real-life workplace scenarios in the VU Logistics Training and Education Center
- Second semester students will have paid internship opportunities either on site at the VU Logistics Training and Education Center or with a local employer
- Class time Monday through Friday from 12:00 p.m. to 2.30 p.m. at the VU Logistics Training and Education Center. Students must provide own transportation

TELEVISION BROADCASTING I

Length/Credits: 2 or 3 periods; up to 3 credits
 Offered: 2 semester program (1st yr-AM)
 Open to: Grades 11, 12
 Prerequisite: Instructor's approval
 Dual Credit: Vincennes University – 3 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:

MCOM 102 Audio/Visual Production 3 credits

TELEVISION BROADCASTING II

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

Offered: 2 semester program (2nd yr-PM)

Open to: Grades 11, 12

Prerequisite: Instructor’s approval

Dual Credit: Vincennes University – 3



- Live from Ben Davis, it’s WBDTV!
- Continue working with the components of television broadcasting and studio production in this “project oriented” class
- Provide content for and the production of programs produced by BDTV including the announcement newscast and any cable programs
- Use everything you learned in the previous semesters
- Opportunity for work based learning experiences at local TV stations

Vincennes University credits may be earned for the following courses:

MDIA 140 Visual Production I 3 credits

TRACTOR/TRAILER OPERATION

Length/Credits: 3 period block, 3 credits

Offered: 1 semester program (Spring) (PM only)

Open to: Grades 12

Prerequisite: None

Dual Credit: *Vincennes University – 16 credits; TTD 9130 Certificate of Program Completion (C.P.C)*



NOTE: Students must provide their own transportation to Vincennes Logistics Training & Education Center, 853 S. Columbia Rd., Ste.151, Plainfield, Indiana

Offered Semester 2 only - must be 18 years old by April 1

- Provided by Vincennes University at the Logistics Training & Education Center
- Participate in classroom instruction - Monday through Friday from 1:00 p.m. to 4:00 p.m. (First 6 weeks of the semester)
- Remaining weeks focus on hands-on, behind-the-wheel, road driving experience and backing skills
- Must pass a DOT physical exam and drug screen.

Approximate expenses for student include:

- \$17 CDL Learners Permit (CLP): payable to the IN BMV
- \$175 Final driving tests scheduled by Vincennes University at an approved IN 3rd Party CDL exam site
- \$36 Commercial Driver’s License; payable to the IN BMV

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 A or B:

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

WELDING TECHNOLOGY I

Length/Credits: 2 periods – 2 credits

Offered: 2 semester program (1st yr-AM/ 2nd yr-PM)

Open to: Grades 11, 12

Prerequisite: None

Dual Credit: Vincennes University – 6 credits



College
Credit

- Become proficient in welding technique and primary bonding processes
- Study shielded arc metal welding technology, how it is applied in industry, and gas metal arc welding technology
- Earn American Welding Society (AWS) certification upon completing the course and passing certification test

Vincennes college credit may be earned for the following courses:

WELD 102 *Shielded Metal Arc Weld I* *3 credits*

WELD 103 *Gas Metal Arc Weld* *3 credits*