



Program Description Guide

2021-2022

Harrison High School
Jefferson High School
McCutcheon High School
Oakland High School
West Lafayette High School

For more information, visit www.GLCareerAcademy.com

Program Description Guide

2021-2022

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SUMMARY CHART

The following career programs are offered at Greater Lafayette Career Academy, including the DOE Course Number, DOE Title, DOE Abbreviation, and Teacher. Detailed descriptions of each career program are included in the GLCA Program Description Guide, the guide is available at www.GLCareerAcademy.com.

| GLCA Title | IDOE Course # | DOE Title | Meets Technical Honor Diploma Requirements | Location |
|-----------------------------------|----------------|---|--|--------------------|
| Advanced Manufacturing I | 5608 | Advanced Manufacturing I | | GLCA |
| Advanced Manufacturing II | 5606 | Advanced Manufacturing II | | GLCA |
| Automotive Services Technology I | 5510 | Automotive Services Technology I | | GLCA |
| Automotive Services Technology II | 5546 | Automotive Services Technology II | | GLCA |
| Aviation Management/Flight | 7214/7217/7207 | Aviation Operations | | GLCA/ Purdue |
| Aviation Maintenance Technology I | 5520 | Aviation Maintenance Technology I | | GLCA/ Purdue |
| Computer Science II | 5236 | Computer Science II | 6 Dual Credits | GLCA |
| Computer Science III | 5251 | Computer Science III | | GLCA – Fall 2022 |
| Construction Trades I | 5580 | Construction Trades I | | GLCA |
| Construction Trades II | 5578 | Construction Trades II | | GLCA |
| Cosmetology | 5802/5806 | Cosmetology I & II | Indiana State Board of Cosmetology and Barber Examiners – 1500 Cosmetology | Christina & Co. |
| Criminal Justice I | 5822 | Criminal Justice I | | GLCA |
| Criminal Justice II | 5824 | Criminal Justice II | | GLCA |
| Culinary Arts & Hospitality I | 5440 | Culinary Arts & Hospitality I | ServSafe & Prostart Certificate (Both Required) | GLCA |
| Culinary Arts & Hospitality II | 5346 | Culinary Arts & Hospitality II: Culinary Arts | ServSafe & Prostart Certificate (Both Required) | GLCA |
| Education Professions I | 5408 | Education Professions I | | GLCA |
| Education Professions II | 5404 | Education Professions II | | GLCA |
| Engineering (PLTW) | 5650/5698/5974 | Civil Engineering and Architecture, WBL, and Engineering Design & Development | 3 Dual Credits from IED or POE 3 Dual Credits from GLCA | GLCA |
| Engineering (Motorsports) | 5698/5510 | Engineering Design & Development and Automotive Services I | | GLCA |
| Emergency Medical Services (EMS) | 5210 | Emergency Medical Services | 10.5 Dual Credits EMT- Basic | Franciscan Central |
| Fire & Rescue | 5820 | Fire & Rescue I | Fire Fighter I | Lafayette Fire |
| Health Science I | 5282/5274/5276 | Health Science Education I, Medical Terminology, and Anatomy & Physiology | 9 Dual Credits | GLCA |
| Health Science II: Nursing | 5284 | Health Science Education II: Nursing | 8 Dual Credits Certified Nurse Assistant (CNA) | GLCA |
| Networking I | 5234 | Networking I | Comp TIA Network+ (N10-007) | GLCA |
| Networking II | 5245 | Networking II | Comp TIA Server+ (SK0-004) | GLCA |
| Precision Agriculture | 7117/7116/7113 | Precision Agriculture | | GLCA |
| Radio & Television I | 5986 | Radio & Television I | | JHS |
| Radio & Television II | 5992 | Radio & Television II | | JHS |
| Welding I | 5776 | Welding Technology I | | GLCA |
| Welding II | 5778 | Welding Technology II | | GLCA |
| Work Based Learning | 5974 | Work Based Learning Capstone | | GLCA |

GENERAL INFORMATION

Schedule

Most classes meet 2 hours, 25 minutes a day. Students attend one of the two sessions. The remainder of the school day is scheduled at the home school. Students enroll in career programs for the entire school year.

Location

The GLCA campus is located at 2201 S. 18th St, Lafayette, 47909. Most career programs are held on the GLCA campus. Other locations are noted in the Program Description Guide. Students in several careers programs will complete work experiences during the year at other locations in the area. These sites and transportation options are coordinated by GLCA staff.

Transportation

Students must obtain permission to drive to GLCA. Students must have a completed GLCA CTE Transportation Form on file and a GLCA parking sticker on their home school parking tag to drive and park at GLCA. To obtain permission, students must plan ahead and obtain signatures from the home school, parents, and GLCA on the transportation form. Driving without permission will result in disciplinary action.

Pre-Enrollment for a First Year Program

Three local school corporations work together to offer the programs that make up GLCA. Students from each high school have an equal opportunity to complete the pre-enrollment form and participate in career programs. Students obtain a pre-enrollment form from the CTE coordinator in their school. Students will complete the form, and return it to the Student Services Office by the schools deadline. It should be understood that submitting the form is a request for consideration to participate in a career program and not a guarantee of enrollment. A student's school records will be used by the home school committee to determine career program eligibility. Student records will be reviewed based on: Progress toward graduation, Attendance and Discipline.

GLCA may need to make selection decisions due to more students enrolling in a career program than can be accommodated. In such cases, the above criteria will be used to review each application. GLCA staff will also consult with staff from the sending high schools. Students who are not enrolled may be placed on an alternate list. As spots become available, students may be enrolled from the alternate list. Students may be denied enrollment by the home high school or GLCA due to poor attendance, excessive disciplinary incidents, or lack of satisfactory progress toward graduation.

ACCESS Program

Select students may enroll early and attend GLCA beginning in their 10th grade year. Students must be recommended by their high school counselor and meet the following requirements:

- o Good academic standing with a GPA of 2.25 or better for the first semester
- o No major discipline issues
- o Excellent att
- o To be considered for the ACCESS program, contact your guidance cendance with 7 or fewer absences at the time of application
- o High maturity level
- o Career bound

Commitment

Acceptance into a career program is a full-year, two-semester commitment. Students who begin a career program are expected to successfully complete the school year.

Dual College Credits

Most GLCA career programs offer dual college credit opportunities. GLCA has dual credit agreements with Ivy Tech Community College and Vincennes University. Earning dual college credits in high school:

- o Enriches the high school curriculum.
- o Introduces high school students to the rigors of college credit courses.
- o Helps students in the transition from high school to college.
- o Helps ensure the students will graduate from college on time.
- o Helps to satisfy the requirements for Indiana Graduation Pathways, Core 40 with Academic Honors and/or Technical Honors diplomas.
- o Helps parents and students assess the student's readiness for college.
- o **Significantly reduces the cost of a college education. Most dual credits are offered to the student at no cost or at a significantly reduced cost.**

The number of dual credits available and the awarding institution varies by career program. Enrollment is required for all dual credits, and placement testing and/or pre-requisite courses may also be required. Placement testing is completed at GLCA or at the home high schools. Test scores determine dual credit eligibility for those career programs that require placement testing. To receive dual credits, students must meet the prerequisite requirements, enroll, and successfully complete the work required. Students may be dropped from dual credit eligibility due to insufficient progress in a course. Career program teachers provide guidance on dual credit procedures, and all paperwork is completed through GLCA. In some cases, a fee may apply. The ability to transfer dual credits to other colleges is dependent upon the receiving institution. Visit transferIN.net to learn more about transferring credits between colleges. Dual credits offered in each career program are subject to change. For the most current information available, contact GLCA or visit www.GLCareerAcademy.com.

Industry Certification

All career programs offer opportunities for students to earn industry certification. The certification process documents skills obtained by students within a career area. The skills and certification are recognized by employers and provide students with an advantage when going into the workforce and/or to postsecondary education. The industry certifications available vary by career program. Testing is required for all industry certifications, and students must successfully complete all requirements to receive certification. In some cases, a fee may apply. Industry certifications offered in each career program are subject to change. For the most current information available, visit www.GLCareerAcademy.com.

Academic Honors Diplomas & Technical Honors Diplomas

Students who participate in the career programs may be eligible to earn both Academic Honors Diplomas (AHD) and Technical Honors Diplomas (THD), depending on the courses they have successfully completed throughout high school and meeting all other diploma requirements.

For more information on using credits and credentials earned in career programs to meet requirements for Academic and Technical Honors Diplomas, see your guidance counselor or contact GLCA.

CAREER PROGRAM DESCRIPTIONS

Industrial Maintenance - Mechanical (NLPS)

Principles of Advanced Manufacturing is a course that includes classroom and laboratory experiences in Industrial Technology and Manufacturing Trends. Domains include safety and impact, manufacturing essentials, lean manufacturing, design principles, and careers in advanced manufacturing. Hands-on projects and team activities will allow students to apply learning on the latest industry technologies. Work-based learning experiences and industry partnerships are highly encouraged for an authentic industry experience. Advanced Manufacturing Technology introduces manufacturing processes and practices used in manufacturing environments. The course also covers key electrical principles, including current, voltage, resistance, power, inductance, capacitance, and transformers, along with basic mechanical and fluid power principles. Topics include, types of production, production materials, machining and tooling, manufacturing planning, production control, and product distribution will be covered. Students will be expected to understand the product life cycle from conception through distribution. This course also focuses on technologies used in production processes. Basic power systems, energy transfer systems, machine operation and control will be explored. This course will use lecture, lab, online simulation and programming to prepare students for Certified Production Technician Testing through Manufacturing Skill Standards Council (MSSC). Industrial Mechanical Fundamentals introduces students to fundamental Welding and Machining skills. Students will be introduced to basic skills in welding, cutting and brazing, and machine tooling that are applicable in a wide variety of trade professions. Specifically, students will learn safe practices in oxy-fuel and Arc welding processes along with experience in using turning, milling, and grinding applications.

DOE Code: 7108, 7103, 7104

Recommended Grade Level: 11, 12

Recommended Course Prerequisites: Introduction to Advanced Manufacturing and Logistics

High School Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum for each course

Principles of Advanced Manufacturing

Advanced Manufacturing Technology

Industrial Mechanical Fundamentals

Additional Information: Counts as a Directed Elective or Elective for all diplomas

Course Fees: \$40.00

Industry Certification Available: None

Class location: Greater Lafayette Career Academy

Ivy Tech Dual College Credits Available:

| Course | College Credits | Prerequisite(s) | Other |
|---|-----------------|-----------------|--|
| CIMT 100 - Electronics for Automation | 3 | | Qualifies for THD Priority Dual Credit |
| CIMT 100L - Electronics for Automation Laboratory | 3 | | Qualifies for THD Priority Dual Credit |

Industrial Maintenance Capstone (NLPS)

The Industrial Maintenance Capstone course focuses on the installation, maintenance, and repair of industrial robots. Students will also learn the basics of pneumatic, electro pneumatic and hydraulic control circuits as well as the basic theory, fundamentals of digital logic, and programming of programmable logic controllers (PLCs) in a complex mechatronic system. Students will learn to identify malfunctioning robots and to apply troubleshooting strategies to identify and localize problems caused by pneumatic and hydraulic control circuits and PLC hardware. Completing the capstone course will provide students the opportunity to earn a postsecondary certificate and will prepare students to take nationally recognized industry certification exams. Hands-on projects and team activities will allow students to apply learning on the latest industry technologies. Extended work-based learning experiences and industry partnerships are highly encouraged for an authentic industry experience.

DOE Code: TBD

Recommended Grade Level: 12

Required Course Prerequisites: Industrial Maintenance - Mechanical

High School Credits: 2 semester course, 2 semesters required, 3 credit per semester, 6 credits maximum

Additional Information: Counts as a Directed Elective or Elective for all diplomas

Course Fees: \$40.00

Industry Certification Available: None

Class location: Greater Lafayette Career Academy

Ivy Tech Dual College Credits Available:

| Course | College Credits | Prerequisite(s) | Other |
|-------------------------------------|-----------------|-----------------|--|
| CIMT 175 - Mechatronics 2 hrs | 2 | | Qualifies for THD Priority Dual Credit |
| CIMT 175L - Mechatronics Laboratory | 1 | | Qualifies for THD Priority Dual Credit |

Auto Services Technology I (AUTO TECH I)

Automotive Service Technology I is a one-year course that encompasses the sub topics of NATEF/ASE identified areas of Electrical Systems, Steering & Suspension, Braking Systems. Specific projects within the class focus on the introduction of automotive systems through the designing and building of a go kart, shop tours, designing an automotive shop business plan, and hands-on work on full size vehicles in the following areas; brakes, steering, suspension, and electrical. This course meets the NATEF program certifications for the three primary areas offered in this course. Mathematical skills will be reinforced through precision measuring activities and cost estimation/calculation activities. Scientific principles taught and reinforced in this course include the study of viscosity, friction, thermal expansion, and compound solutions. Written and oral skills will also be emphasized to help students communicate with customers, colleagues, and supervisors.

DOE Code: 5510

Recommended Grade Level: 11, 12

Required Course Prerequisites: none

Recommended Prerequisites: Intro to Transportation

High School Credits: 2 semester course, 2 semesters required, 3 credit per semester, 6 credits maximum

Additional Information: Counts as a Directed Elective or Elective for all diplomas

Course Fees: \$60.00

Industry Certification Available: None

Class location: Greater Lafayette Career Academy

Ivy Tech Dual College Credits Available:

| Course | College Credits | Prerequisite(s) | Other |
|--|-----------------|-----------------|--|
| AUTI 100 Basic Auto Service | 3 | None | Qualifies for THD Priority Dual Credit |
| AUTI 111 Electrical I | 3 | AUTI 100 | Qualifies for THD Priority Dual Credit |
| AUTI 121 Brake Systems | 3 | AUTI 111 | Qualifies for THD Priority Dual Credit |
| AUTI 122 Steering and Suspension Systems | 3 | AUTI 100 | Qualifies for THD Priority Dual Credit |

Auto Services Technology II (Motorsports) (AUTO TECH II)

Automotive Services Technology II is a one-year course that encompasses the sub topics of the NATEF/ASE identified areas of Engine Fundamentals/Performance and Driveline Service. Specific projects within the class focus on the automotive engine, specifically tearing down and rebuilding engines, learning the fundamentals of vehicle drivelines (transmissions, differentials, etc.) Students will also work in a hands-on environment designing, funding, building, and testing their Electrical Vehicle (EV) Grand Prix electric racing karts and their Super Mileage Vehicle While also competing in State and National competitions in the Fall and Spring semesters. This course meets the NATEF program certifications for the two primary areas offered in this course. Mathematical skills will be reinforced through precision measuring activities and cost estimation/calculation activities. Scientific principles taught and reinforced in this course include the study of viscosity, friction, thermal expansion, and compound solutions. Written and oral skills will also be emphasized to help students communicate with customers, colleagues, and supervisors.

DOE Code: 5546

Recommended Grade Level: 12

Required Course Prerequisites: Auto Services Technology I

High School Credits: 2 semester course, 2 semesters required, 3 credit per semester, 6 credits maximum

Additional Information: Counts as a Directed Elective or Elective for all diplomas

Course Fees: \$60.00

Industry Certification Available: None

Class location: Greater Lafayette Career Academy

Ivy Tech Dual College Credits Available:

| Course | College Credits | Prerequisite(s) | Other |
|-------------------------------|-----------------|-----------------|--|
| AUTI 131 Engine Performance I | 3 | AUTI 111 | Qualifies for THD Priority Dual Credit |
| AUTI 141 Engine Fundamentals | 3 | | Qualifies for THD Priority Dual Credit |
| AUTI 145 Driveline Service | 3 | | Qualifies for THD Priority Dual Credit |

Aviation Management/Flight

This course provides the student the opportunity to develop an understanding of various aspects of the aviation industry to include general regulations and laws associated with the field. Included is an overview of the aviation field and all employment opportunities. Areas of study include aerodynamics, aircraft systems, performance, weight and balance, physiology, regulations, cross country planning, weather, and decision-making skills. Students will also learn of the departments associated with an airport and their impact on the industry as a whole. Students will receive ground school knowledge required for certification as a private pilot with an airplane single engine land rating. Areas of study include aerodynamics, aircraft systems, performance, weight and balance, physiology, regulations, cross country planning, weather, and decision-making skills. This course also includes the operation and management of the Fixed Base Operation (FBO). It introduces the challenges and complexity of aviation security faced by aviation professionals across the industry and traces the evolution of current security approaches and explores technologies and processes targeting threat mitigation and improved operational efficiency. Emphasis will be placed on financial and operational considerations as well as on regulatory requirements and constraints. After successful completion of this course, students will be eligible to complete the flight portion of the private pilots license.

DOE Code: 7214/7217/7207

Required Grade Level: 12

Required Course Prerequisite: None

High School Credits: 2 semester course, 2 semesters required, 3 credits per semester, 6 credits maximum

Additional Information: Counts as a Directed Elective or Elective for all diplomas

Course Fees: \$50

Industry Certification Available: Ground School Certificate, and the [Federal Aviation Administration Part 107 Certified Remote Pilots License](#), also known as DRONE certification.

Class location: Greater Lafayette Career Academy

Tentative College Credits Available:

| Course | College Credits | Prerequisite(s) | Other |
|--|-----------------|-----------------|--|
| AVIT 111 - Introduction to Aviation Technology | 3 | | Qualifies for THD Priority Dual Credit |
| AVIT 120 - Private Pilot Theory | 3 | | Qualifies for THD Priority Dual Credit |
| AVIT 132 - Aviation Operations | 3 | | Qualifies for THD Priority Dual Credit |

Aviation Maintenance Technology I (AV MAINT)

Aviation Maintenance I is a comprehensive course that familiarizes the student with Federal Aviation Regulations, weight and balance, ground operation, maintenance forms and records, non-destructive testing methods, aircraft paint and refinishing systems and the basics of aircraft welding. The course also covers various onboard systems including cabin atmospheric control systems, pressurization and fire detection/extinguishing systems. This course familiarizes students with the inspection, damage evaluation and repair of composite and wood structures, windows and fabric covering systems used on aircraft.

DOE Code: 5520

Recommended Grade Levels: 11, 12

Required Course Prerequisite: None

High School Credits: 2 semester course, 2 semesters required, 3 credits per semester, 6 credits maximum

Additional Information: Counts as a Directed Elective or Elective for all diplomas

Course Fees: \$50

Industry Certification Available: FAA Powerplant Mechanics License

Class location: Greater Lafayette Career Academy

College Credits Available:

| Course | College Credits | Prerequisite(s) | Other |
|--------|-----------------|-----------------|-------|
| TBD | | | |

Computer Science II: (CS II PROG)

Computer Science II: Programming explores and builds skills in programming and a basic understanding of the fundamentals of procedural program development using structured, modular concepts. Coursework emphasizes logical program design involving user-defined functions and standard structure elements. Discussions will include the role of data types, variables, structures, addressable memory locations, arrays and pointers and data file access methods. An emphasis on logical program design using a modular approach, which involves task oriented program functions.

DOE Code: 5236

Recommended Grade Levels: 11, 12

Required Course Prerequisite: Computer Science I

High School Credits: 2 semester course, 2 semesters required, 3 credits per semester, 6 credits maximum

Additional Information: Counts as a Directed Elective or Elective for all diplomas

Qualifies as a quantitative reasoning course

Course Fees: 0

Industry Certification Available: None

Class location: Greater Lafayette Career Academy

Ivy Tech Dual College Credits Available:

| Course | College Credits | Prerequisite(s) | Other |
|--|-----------------|--------------------------|---|
| SDEV 140 Intro to Software Development | 3 | SDEV 120 Math Accuplacer | Qualifies for THD Priority Dual Credits |

Construction Trades I (CONST TECH I)

Construction Technology I focuses on classroom and lab experiences involving the formation, installation, maintenance, and repair of buildings, homes, and other structures. A history of construction, with an emphasis on future trends and career options, is also covered. This program provides instruction in reading technical drawings and transforming those drawings into physical structures. The relationship of views and details, interpretation of dimension, transposing scale, tolerance, electrical symbols, sections, materials list, architectural plans, geometric construction, three dimensional drawing techniques, and sketching are presented as well as elementary aspects of residential design and site work. Students examine the design and construction of floor and wall systems and develop layout and floor construction skills. Blueprints and other professional planning documents are also covered. Students will develop an understanding and interpretation of the Indiana Residential Code for one and two-family dwellings and safety practices including OSHA's safety & health standards for the construction industry.

DOE Code: 5580

Recommended Grade Levels: 11, 12

Recommended Course Prerequisite: Introduction to Construction

High School Credits: 2 semester course, 2 semesters required, 3 credits per semester, 6 credits maximum

Additional Information: Counts as a Directed Elective or Elective for all diplomas

Course Fees: \$45.00

Industry Certification Available:

OSHA 10-Hour Safety Certification

Carpenters Union Articulation

Class location: Greater Lafayette Career Academy

Vincennes University Dual College Credits Available:

| Course | College Credits | Prerequisite(s) | Other |
|-------------------------------|-----------------|-----------------|---|
| CNST 100 Construction Seminar | 1 | None | Qualifies for THD Priority Dual Credits |
| CNST 105 Framing | 2 | None | Corequisite CNST 105L |
| CNST 105L Framing Lab | 2 | None | Corequisite CNST 105 |
| CNST 120 Construction Safety | 2 | Accuplacer | Qualifies for THD Priority Dual Credits |
| CNST 155 Electrical Wiring | 2 | None | Corequisite CNST 155L |
| CNST 155L Electrical Lab | 1 | None | Corequisite CNST 155 |

Construction Trades II (CONSTECH II)

Construction Technology II builds on the formation, installation, maintenance, and repair skills learned in Construction Technology I. Information on materials, occupations, and professional organizations within the industry are covered. Students will develop basic knowledge, skills, and awareness of interior trim and the installation of drywall, moldings, interior doors, cabinets, and baseboard moldings. Students will also develop exterior finishing skills. The program includes instruction on the installation of cornices, windows, doors, and various types of sidings currently used in industry. Studies will also focus on the design and construction of roof systems and the use of framing squares for traditional rafter and truss roofing.

DOE Code: 5578

Recommended Grade Level: 12

Required Course Prerequisite: Construction Technology I

Qualifies as a quantitative reasoning course.

High School Credits: 2 semester course, 2 semesters required, 3 credits per semester, 6 credits maximum

Additional Information: Counts as a Directed Elective or Elective for all diplomas

Course Fees: \$45.00

Industry Certification Available: *Carpenters Union Articulation*

Class location: Greater Lafayette Career Academy

Vincennes University Dual College Credits Available:

| Course | College Credits | Prerequisite(s) | Other |
|--------------------------------|-----------------|-----------------|-----------------------|
| CNST 160 Finish Carpentry | 2 | None | Corequisite CNST 160L |
| CNST 160L Finish Carpentry Lab | 2 | None | Corequisite CNST 160 |

Cosmetology I & II (CSMTLGY)

Cosmetology I offers an introduction to cosmetology with an emphasis on basic practical skills and theories including roller control, quick styling, shampooing, hair coloring, permanent waving, facials, manicuring, business and personal ethics, bacteriology, and sanitation. In the second semester, greater emphasis is placed on the application and development of these skills. The State of Indiana requires a total of 1500 hours of required instruction learning advanced skills in styling, hair coloring, permanent waving, facials and manicuring. Students will also study anatomy and physiology, professionalism, and salon management in relation to cosmetology. Upon completing this program and passing the State examination, students become licensed and are prepared to be employed in a salon. Students also pursue 2 and 4-year postsecondary degrees in business, fashion design, or related fields. Some students use their license to work while continuing their education.

DOE Code: 5802/5806

Required Grade Level: 12

Required Course Prerequisite: None

Other Requirements: Students must be 18 to take the certification exam.

High School Credits: 2 semester course, 2 semesters plus summer required, 6 credits per semester, 12 credits maximum - ***Course begins in June.**

Course Fees: \$5,000, payment plans available at Christina & Co.

Industry Certification Available: Indiana State Board of Cosmetology License

Class location: Christina & Co.

Vincennes University Dual College Credits Available:

| Course | College Credits | Prerequisite(s) | Other |
|--------------------------|-----------------|-----------------|--|
| COSM 100 Cosmetology I | 7 | Accuplacer | Qualifies for THD Priority Dual Credit |
| COSM 150 Cosmetology II | 7 | COSM 100 | Qualifies for THD Priority Dual Credit |
| COSM 200 Cosmetology III | 7 | COSM 150 | Qualifies for THD Priority Dual Credit |

Criminal Justice (NLPS)

Principles of Criminal Justice covers the purposes, functions, and history of the three primary parts of the criminal justice system: law enforcement, courts, and corrections. This course further explores the interrelationships and responsibilities of these three primary elements of the criminal justice system. It will critically examine the history and nature of the major theoretical perspectives in criminology, and the theories found within those perspectives. Analyzes the research support for such theories and perspectives, and the connections between theory and criminal justice system practice within all the major components of the criminal justice system. Demonstrates the application of specific theories to explain violent and non-violent criminal behavior on both the micro and macro levels of analysis. Law Enforcement and Cultural Awareness introduces fundamental law enforcement operations and organization. Includes the evolution of law enforcement at federal, state, and local levels. Emphasizes the study of American criminal justice problems and systems in historical and cultural perspectives, as well as discussing social and public policy factors affecting crime. Courts and Corrections introduces topics related to the adjudication process in criminal cases, including arraignments and preliminary hearings, suppression hearings, trials, sentencing, juvenile court, and probation and parole. Reviews the role of criminal justice personnel in court processes. This course also examines the American correctional system; the study of administration of local, state, and federal correctional agencies. The examination includes the history and development of correctional policies and practices, criminal sentencing, jails, prisons, alternative sentencing, prisoner rights, rehabilitation, and community corrections including probation and parole. Current philosophies of corrections and the debates surrounding the roles and effectiveness of criminal sentences, institutional procedures, technological developments, and special populations are discussed.

DOE Code: 7193, 7191, 7188

Recommended Grade Level: 11,12

Recommended Prerequisites: Interpersonal Relationships

High School Credits: 2 semester course, 2 semesters required, 3 credits per semester, 6 credits maximum

Principles of Criminal Justice

Law Enforcement Fundamentals

Law Enforcement Fundamentals

Counts as a Directed Electives or Electives for all diplomas

Course Fees: \$45.00

Industry Certification Available: None

Class location: Greater Lafayette Career Academy

Vincennes University Dual College Credits Available:

| Course | College Credits | Prerequisite(s) | Other |
|--|-----------------|-----------------|--|
| LAW 100 Survey of Criminal Justice | 3 | | Qualifies for THD Priority Dual Credit |
| LAW 101 Basic Police Operations | 3 | | Qualifies for THD Priority Dual Credit |
| LAW 145 Ethics and Professionalism in Criminal Justice | 3 | | Qualifies for THD Priority Dual Credit |
| LAW 150 Criminal Minds and Deviant Behaviors | 3 | | Qualifies for THD Priority Dual Credit |

Criminal Justice Capstone (NLPS)

Criminal Justice II introduces students to concepts and practices in forensic investigation at crime scenes. Students will have opportunities to use the knowledge to simulate a crime scene. Criminal investigations will be used to teach scientific knowledge related to anatomy, biology, and chemistry as well as collection of evidence, developing and questioning suspects, and protecting the integrity of physical evidence found at the scene and while in transit to a forensic science laboratory.

DOE Code: 5824

Recommended Grade Level: 11, 12

Recommended Course Prerequisites: Criminal Justice

High School Credits: 2 semester course, 2 semesters required, 3 credits per semester, 6 credits maximum

Counts as a Directed Elective or Elective for all diplomas

Course Fees: Workbooks for certification

Industry Certification Available: None

Class location: Greater Lafayette Career Academy

Dual College Credits Available:

| Course | College Credits | Prerequisite(s) | Other |
|---|-----------------|-----------------|-------|
| LAW 270 Internship in Law Enforcement (150 hours) | 3 | | |
| LAW 281 Indiana Law Enforcement Certification | 3 | | |

| | | | |
|--|---|--|--|
| | | | |
| LAW 282 Indiana Jail Officer Certification | 3 | | |

Culinary Arts & Hospitality I (CULART HOSP)

Culinary Arts and Hospitality I prepares students for occupations and higher education programs of study related to the entire spectrum of careers in the hospitality industry. This course builds a foundation that prepares students to enter the Advanced Culinary Arts or Advanced Hospitality courses. Major topics include: introduction to the hospitality industry; food safety and personal hygiene; sanitation and safety; regulations, procedures, and emergencies; basic culinary skills; culinary math; and food preparation techniques and applications; principles of purchasing, storage, preparation, and service of food and food products; ; apply basic principles of sanitation and safety in order to maintain safe and healthy food service and hospitality environments; use and maintain related tools and equipment; and apply management principles in food service or hospitality operations. Intensive laboratory experiences with commercial applications are a required component of this course of study.

Culinary Arts and Hospitality I allows students to explore more complex recipes, independent projects, and lead the kitchen. Students will display their skills by preparing and serving food for catering events and when operating the Greater Lafayette Career Academy restaurant "Mise En Place". Students completing this program may choose to continue their culinary education by taking Advanced Culinary Arts, if they are current junior, enroll in a 2 and/or 4 year postsecondary degree program if they are a current senior, or gain employment in a variety of food service operations.

DOE Code: 5440

Recommended Grade Level: 11, 12

Required Course Prerequisite: Nutrition and Wellness, Introduction to Culinary Arts & Hospitality

High School Credits: 2 semester course, 2 semesters required, 3 credits per semester, 6 credits maximum

Counts as a Directed Elective or Elective for all diplomas.

Course Fees: \$130.00

Industry Certification Available: ProStart National Certificate of Achievement Year I, ServSafe Certification

Class location: Greater Lafayette Career Academy

Ivy Tech Dual College Credits Available:

| Course | College Credits | Prerequisite(s) | Other |
|---------------------------------------|-----------------|-----------------|--|
| HOSP 101 Sanitation and First Aid | 3 | Accuplacer | Qualifies for THD Priority Dual Credit |
| HOSP 102 Basic Food Theory and Skills | 3 | HOSP 101 | Qualifies for THD Priority Dual Credit |

Culinary Arts & Hospitality II (CUL HOSP II: CUL ARTS)

Culinary Arts and Hospitality II: Culinary Arts prepares students for occupations and higher education programs of study related to the entire spectrum of careers in the food industry, including (but not limited to) food production and services; food science, dietetics, and nutrition; and baking and pastry arts. Major topics for this advanced course include: basic baking theory and skills, introduction to breads, introduction to pastry arts, nutrition, nutrition accommodations and adaptations, cost control and purchasing, and current marketing and trends. Instruction and intensive laboratory experiences include commercial applications of principles of nutrition, aesthetic, and sanitary selection; purchasing, storage, preparation, and service of food and food products; using and maintaining related tools and equipment; baking and pastry arts skills; managing operations in food service, food science, or hospitality establishments; providing for the dietary needs of persons with special requirements; and related research, development, and testing. Intensive laboratory experiences with commercial applications are a required component of this course of study. Student laboratory experiences may be either school-based or "on-the-job" or a combination of the two. Advanced Culinary Arts builds upon skills and techniques learned in Culinary Arts and Hospitality Management, which must be successfully completed before enrolling in this advanced course. Intensive laboratory experiences with commercial applications are a required component of this course of study.

Culinary Arts and Hospitality II allows students to explore more complex recipes, independent projects, and lead the kitchen. The Culinary Arts II students will prepare the desserts and pastries for the GLCA restaurant "Mise En Place" as well as their own Teal Bakery. Students completing this program may choose to continue their culinary education by enrolling in a 2 and/or 4 year postsecondary degree program or gain employment in a variety of food service operations.

DOE Code: 5346

Recommended Grade Level: 12

Required Course Prerequisite: Culinary Arts & Hospitality I

High School Credits: 2 semester course, 2 semesters required, 3 credits per semester, 6 credits maximum

Counts as a Directed Elective or Elective for all diplomas.

Course Fees: \$105.00

Industry Certification Available: ProStart National Certificate of Achievement Year II

Class location: Greater Lafayette Career Academy

Ivy Tech Dual College Credits Available:

| Course | College Credits | Prerequisite(s) | Other |
|--------|-----------------|-----------------|-------|
|--------|-----------------|-----------------|-------|

| | | | |
|---------------------------------|---|------------|--|
| HOSP 104 Nutrition | 3 | Accuplacer | Qualifies for THD Priority Dual Credit |
| HOSP 105 Introduction to Baking | 3 | HOSP 101 | Qualifies for THD Priority Dual Credit |

Education Careers (NLPS)

This course provides a general introduction to the field of teaching. Students will explore educational careers, teaching preparation, and professional expectations as well as requirements for teacher certification. Current trends and issues in education will be examined. A volunteer experience of a minimum of 20 hours is required for successful completion of this course. This course has been approved to be offered for dual credit. Students pursuing this course for dual credit are still required to meet the minimum prerequisites for the course and pass the course with a C or better in order for dual credit to be awarded. Child and Adolescent Development examines the physical, social, emotional, cognitive, and moral development of the child from birth through adolescence with a focus on the middle years through adolescence. Basic theories of child development, biological and environmental foundations of development, and the study of children through observation and interviewing techniques are explored. The influence of parents, peers, the school environment, culture and the media are discussed. An observation experience up to 20 hours may be required for completion of this course. This course has been approved to be offered for dual credit. Students pursuing this course for dual credit are still required to meet the minimum prerequisites for the course and pass the course with a C or better in order for dual credit to be awarded. Teaching and Learning provides students the opportunity to apply many of the concepts that they have learned throughout the Education Professions pathway. In addition to a focus on best practices, this course will provide an introduction to the role that technology plays in the modern classroom. Through hands-on experience with educational software, utility packages, and commonly used microcomputer hardware, students will analyze ways to integrate technology as a tool for instruction, evaluation, and management.

DOE Code: 7161, 7157, 7162

Recommended Grade Level: 11, 12

Recommended Course Prerequisite: Advanced Child Development

High School Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum for each course

Counts as a Directed Elective or Elective for all diplomas.

Principles of Teaching

Child and Adolescent Development

Teaching and Learning

Course Fees: \$46.00

Industry Certification Available: Education Fundamentals Certification (Pre-PAC)

Class location: Greater Lafayette Career Academy

Purdue University Dual College Credits Available:

| Course | College Credits | Prerequisite(s) | Other |
|--|-----------------|-----------------|--|
| EDCI 205: Exploring Teaching as a Career | 3 | | Qualifies for THD Priority Dual Credit |

Ivy Tech Dual College Credits Available:

| Course | College Credits | Prerequisite(s) | Other |
|---|-----------------|-----------------|-------|
| EDUC 121 Child & Adolescent Development | 3 | EdReady | |
| EDCU 201 Technology in Education | 3 | EdReady | |

Education Careers Capstone (NLPS)

The Education Professions Capstone provides an extended opportunity for field experience to further apply concepts that have been presented throughout the pathway. Students will also have the opportunity to explore the topics of the exceptional child and literacy development through children's literature. Students will gain a deeper understanding of inclusive teaching techniques along with policies, theories, and laws related to special education. Students interested in pursuing a career in Elementary Education are encouraged to also study the benefits of using children's literature in the classroom. Before the capstone is finalized for the 2022- 2023 school year, this course may be further developed to include specific content for students interested in pursuing a career in secondary education.

DOE Code: 7267

Recommended Grade Level: 12

Required Course Prerequisite: Education Careers

High School Credits: 2 semester course, 2 semesters required, 3 credits per semester, 6 credits maximum

Counts as a Directed Elective or Elective for all diplomas

Course Fees: \$46.00

Dual College Credits Available: None

Industry Certification Available: None

Class location: Greater Lafayette Career Academy

Dual College Credits Available:

| Course | College Credits | Prerequisite(s) | Other |
|---|-----------------|-----------------|-------|
| EDCU 233 Literacy Development through Children's Literature | 3 | EdReady | |
| EDCU 230 The Exceptional Child | 3 | Accuplacer | |

Emergency Medical Services

The Emergency Medical Service Education program prepares students to work as an Emergency Medical Technician (EMT) in a variety of environments. Those environments include but are not limited to; 911 emergency care, inter-facility transportation, emergency rooms, doctor's offices and more. Students will learn to appropriately access patients, assess conditions, formulate a plan of action and administer the proper care using the appropriate equipment/medications per protocol. Additionally, this course covers personal safety, human anatomy and physiology, legal and ethical issues, incident management, hazardous materials recognition, emergency vehicle operation, and much more.

The course also requires laboratory practice and clinical observation. Labs will be conducted regularly and students will gain additional experience in clinical observations in the emergency room and riding along with Tippecanoe Emergency Ambulance Service. Successful completion of the course will allow the student to sit for testing with the National Registry of Emergency Medical Technicians (NREMT). Successful certification with NREMT will allow the student to receive an EMT license/certification in most US states and all branches of the military.

DOE Code: 5210

Required Grade Level: 12

Recommended Prerequisite: Health Science Education I or Fire & Rescue I

High School Credits: 2 semester course, 2 semesters required, 3 credits per semester, 6 credits maximum

Counts as a Directed Elective or Elective for all diplomas

Course Fees: \$175.00

Industry Certification Available: National EMT Certification

Class location: Franciscan Health Lafayette Central

Ivy Tech Dual College Credits Available:

| Course | College Credits | Prerequisite(s) | Other |
|--|-----------------|-----------------|--|
| HSPS 125 Emergency Medical Responder | 3 | None | Qualifies for THD Priority Dual Credit |
| PARM 102 Emergency Medical Technician Basic Training | 7.5 | Accuplacer | Qualifies for THD Priority Dual Credit |

Engineering (PLTW)

Civil Engineering and Architecture introduces students to the fundamental design and development aspects of civil engineering and architectural planning activities. Application and design principles will be used in conjunction with mathematical and scientific knowledge. Computer software programs should allow students opportunities to design, simulate, and evaluate the construction of buildings and communities. During the planning and design phases, instructional emphasis should be placed on related transportation, water resource, and environmental issues. Activities include the preparation of cost estimates as well as a review of regulatory procedures that would affect the project design.

Engineering Design and Development is an engineering research course in which students work in teams to research, design, test, and construct a solution to an open-ended engineering problem with local industry partners. The product development life cycle and a design process are used to guide the team to reach a solution to the problem. The team/ and or individuals communicate their solution to a panel of stakeholders at the conclusion of the course. As the capstone course in the Engineering Pathway, EDD engages students in critical thinking, problem-solving, time management, and teamwork skills.

Students will participate in a work-based learning opportunity. A minimum of 75 hours of work-based learning will be scheduled for each student.

DOE Code: 5650 (1 credit) /5698 (1 credit) /5974 (1 credit)

Recommended Grade Levels: 11, 12

Required Course Prerequisites: Introduction to Engineering Design and Principles of Engineering

Credits: 2 semester course, 2 semesters required, 3 credits per semester, 6 credits maximum

Additional Information: Counts as a Directed Elective or Elective for all diplomas

Qualifies as 3 quantitative reasoning courses

Course Fees: \$45.00

Industry Certification Available: None

Class location: Greater Lafayette Career Academy

Ivy Tech Dual College Credits Available:

| Course | College Credits | Prerequisite(s) | Other |
|-------------------------------|-----------------|-----------------|---|
| DESN 105 Architectural Design | 3 | DESN 101 | Qualifies for THD Priority Dual Credits |

Engineering Design and Development (Motorsports)

Engineering Design and Development is a one-year course that specializes in modern design and engineering processes with a focus on creative problem solving. This hands-on, student-driven course allows the students to develop skills in multiple disciplines such as mechanical and electrical engineering, fabrication, automotive technology, physics, product research, project management, and business management all while focusing on the world of motorsports and alternative energy. Students will work in a hands-on environment designing, funding, building, and testing their Electrical Vehicle (EV) Grand Prix electric racing karts and their Super Mileage Vehicle While also competing in State and National competitions in the Fall and Spring semesters. Students will also be receiving 4 credits in Automotive Services Technology I and 2 credits in Engineering Design and Development.

DOE Code: 5510 (2 credits) /5698 (1 credit)

Recommended Grade Levels: 12

Required Course Prerequisites: Principles of Engineering

Credits: 2 semester course, 2 semesters required, 3 credits per semester, 6 credits maximum

Additional Information: Counts as a Directed Elective or Elective for all diplomas

Qualifies as 3 quantitative reasoning courses

Course Fees: \$75.00

Industry Certification Available: None

Class location: Greater Lafayette Career Academy

Ivy Tech Dual College Credits Available:

| Course | College Credits | Prerequisite(s) | Other |
|--|-----------------|-----------------|-------|
| AUTI 111 Electrical I | 3 | AUTI 100 | |
| AUTI 121 Brake Systems | 3 | AUTI 111 | |
| AUTI 122 Steering and Suspension Systems | 3 | AUTI 100 | |

Fire & Rescue I

Every year, fires and other emergencies take thousands of lives and destroy property worth billions of dollars. Firefighters and emergency services workers help protect the public against these dangers by rapidly responding to a variety of emergencies. They are frequently the first emergency personnel at the scene of a traffic accident or medical emergency and may be called upon to put out a fire, treat injuries or perform other vital functions. The Fire and Rescue curriculum includes five Indiana state fire certifications: (1) Mandatory, (2) Firefighter I, (3) Firefighter II, (4) Hazardous Materials Awareness, (5) Hazardous Materials Operations.

DOE Code: 5820

Recommended Grade Levels: 11, 12

Required Course Prerequisites: None

Credits: 2 semester course, 2 semesters required, 3 credits per semester, 6 credits maximum

Additional Information: Counts as a Directed Elective or Elective for all diplomas

Qualifies as 3 quantitative reasoning courses

Course Fees: \$260.00

Industry Certification Available:

Mandatory Firefighter

Firefighter I

Firefighter II

Hazmat Awareness

Hazmat Operations

Class location: Greater Lafayette Career Academy

Ivy Tech Dual College Credits Available:

| Course | College Credits | Prerequisite(s) | Other |
|--|-----------------|-----------------|--|
| HSPS 106 Fire Suppression | 3 | None | Qualifies for THD Priority Dual Credit |
| HSPS 121 Hazmat Awareness & Operations | 3 | None | Qualifies for THD Priority Dual Credit |
| HSPS 165 Firefighter I | 3 | None | Qualifies for THD Priority Dual Credit |
| HSPS 167 Firefighter II | 3 | None | Qualifies for THD Priority Dual Credit |

Health Science Education I (HLTH ED I)

Health Science I students study topics such as human anatomy and physiology, medical terminology, medical ethics, CPR, and practical skills applicable to all health-related occupations. Leadership skills developed through participation in the HOSA student organization are also included. Job shadow experiences are completed at local health care facilities throughout one semester of the program. Job seeking and job maintenance skills, personal management skills, and self-analysis to aid in career selection are also included. Participation in HOSA encourages the development of leadership, communication and career related skills, and opportunities for community service.

DOE Code: 5282 (1 credit)/ 5274 (1 credit)/ 5276 (1 credit)

Recommended Grade Levels: 11, 12

Required Prerequisites: None

High School Credits: 2 semester course, 2 semesters required, 3 total credits per semester, maximum of 6 credits

5282 Counts as a Directed Elective or Elective for all diplomas

5274 Counts as a Directed Elective or Elective for all diplomas

5276 Counts as Core 40 Science course and Directed Elective or Elective for all diplomas

Course Fees: \$288.00

Class location: Greater Lafayette Career Academy

Industry Certification Available:

AHA Heartsaver & First Aid Certification

Ivy Tech Lafayette Dual College Credits Available:

| Course | College Credits | Prerequisite(s) | Other |
|---|-----------------|-----------------|--|
| HLHS 100 Introduction to Health Careers | 3 | None | Qualifies for THD Priority Dual Credit |
| HLHS 101 Medical Terminology | 3 | Accuplacer | Qualifies for THD Priority Dual Credit |
| HLHS 102 Essentials of Anatomy & Physiology (2020-2021) | 3 | Accuplacer | |

Health Science II: Nursing (HSE II NURS)

Health Science II is an extended laboratory experience at a clinical site designed to provide students the opportunity to assume the role of nurse assisting and practice technical skills previously learned in the classroom, including information on the health care system, employment opportunities at a variety of entry levels, an overview of the health care delivery systems, health care teams, and legal and ethical considerations. It prepares students with the knowledge, skills, and attitudes essential for providing basic care in extended care facilities, hospitals, and home health agencies under the direction of licensed nurses. These skills include recording patient medical histories and symptoms, consulting other healthcare providers, operating and monitoring medical equipment, performing diagnostic tests, teaching patients and families how to manage illness or injury, and performing general health screenings. This program also provides students with the knowledge, attitudes, and skills needed to make the transition from school to work in the field of nurse assisting, including self-analysis to aid in career selection, job seeking and job maintenance skills, personal management skills, and completion of the application process for admission into a postsecondary program. HOSA, the Health Science student organization, encourages development of leadership, communication, community service, and health care related skills. Students completing this program continue their education in 2 or 4-year postsecondary degree programs, obtain employment in the healthcare industry, or use the CNA license to work while continuing their education.

DOE Code: 5284

Required Grade Level: 12

Required Prerequisite: None

High School Credits: 2 semester course, 2 semesters required, 3 credits per semester, maximum of 6 credits

Counts as a Directed Elective or Elective for all diplomas

Course Fees: \$173.00

Industry Certification Available: CNA (Indiana State Certified Nursing Assistant) Certification Testing required

CPR healthcare Provider Certification

Class location: Greater Lafayette Career Academy

Ivy Tech Dual College Credits Available:

| Course | College Credits | Prerequisite(s) | Other |
|--------------------------|-----------------|------------------|--|
| HLHS 107 CNA Preparation | 5 | ISDH Regulations | Qualifies for THD Priority Dual Credit |
| HLHS 113 Dementia Care | 3 | None | |

Networking I (NET I)

Networking I - explores and demonstrates how a network operates in our everyday lives. The course covers the technical pieces and parts of a network and also societal implications such as security and data integrity. This course offers students the critical information needed for a role as an Information Technology professional who supports computer networks. Concepts covered include the TCP/IP model, OS administration, designing a network topology, configuring the TCP/IP protocols, managing network devices and clients, configuring routers and switches, wireless technology and troubleshooting. The course has a heavy hands-on component to meet various learning styles.

DOE Code: 5234

Recommended Grade Level: 11, 12

Required Prerequisite: Information Technology Support, must have attempted A+ certification I & II

High School Credits: 2 semester course, 2 semesters required, 3 credits per semester, 6 credits maximum

Counts as a Directed Elective or Elective for all diplomas

Course Fees: 0

Industry Certification Available: Net+ or CISCO Certified Entry Network Technician (CCENT)

Class location: Greater Lafayette Career Academy

Vincennes University Dual College Credits Available:

| Course | College Credits | Prerequisite(s) | Other |
|----------------------------------|-----------------|-----------------|---|
| CMET 140 Computer Maintenance I | 3 | None | Qualifies for THD Priority Dual Credits |
| CMET 185 Computer Maintenance II | 3 | CMET 140 | Qualifies for THD Priority Dual Credits |

Networking II: Cybersecurity

Networking II: Cybersecurity is a capstone experience of the Network Support Pathway. It builds upon a base knowledge of Information Technology as gained through lower level courses such as IT support and Networking I. This particular capstone course concentrates on the Security field within networking, also called the cybersecurity field. Laboratory and classroom components are used to cover key elements such as Information Security, Systems Security, Network Security, Mobile Security and, Defense and Mitigation Techniques. The core concepts of confidentiality, integrity and availability are covered.

DOE Code: 5245

Recommended Grade Level: 12

Required Prerequisite: Networking I

High School Credits: 2 semester course, 2 semesters required, 3 credits per semester, 6 credits maximum

Counts as a Directed Elective or Elective for all diplomas

Course Fees: 0

Class location: Greater Lafayette Career Academy

Industry Certification Available: CISCO Certified Network Associate (CCNA)

Vincennes University Dual College Credits Available:

| Course | College Credits | Prerequisite(s) | Other |
|--------|-----------------|-----------------|-------|
|--------|-----------------|-----------------|-------|

| | | | |
|-----------------------------------|---|-----------------------------------|---|
| CPNS 101 LAN Basics and OSI Model | 3 | None | |
| CPNS 102 WAN Basics and Routers | 3 | CPNS 101 Concurrent Enrollment | |
| CMET 215 Computer Maintenance III | 3 | None | Qualifies for THD Priority Dual Credits |
| CPNS 170 Computer Networking I | 3 | None | |

Precision Agriculture

The Precision Agriculture course provides students the opportunity to learn automation, crop spatial variability, data analysis, differential correction, geographic information systems, global positioning systems, nutrient spatial variability, sensors, soil & water spatial variability, and telematics. Students will use industry recognized technology in the classroom setting. Equipment currently used in the classroom includes: Davis Instruments Weather Station, DJI Phantom 4 Pro, DJI Spark Drone, Drone Deploy Software, FarmBot Genesis XL, iGrow 800 Greenhouse Control, SeaPerch Robotics, Sentera High Precision Single Sensor, SMS Software, and Soil Analysis Equipment. Students will have the opportunity to connect with community agriculture partners for weekly externship experiences throughout course enrollment.

Upon successful completion of the course students will obtain dual credits from Ivy Tech Community College, the Federal Aviation Administration Part 107 Certified Remote Pilots License, OSHA 10 Hour General Industry Certification, and partnerships with local industry recognized employers.

DOE Code: 7117/7116/7113

Recommended Grade Level: 11, 12

Required Prerequisite: None

High School Credits: 2 semester course, 2 semesters required, 3 credits per semester, 6 credits maximum

Counts as a Directed Elective or Elective for all diplomas

Course Fees: \$25.00

Class location: Greater Lafayette Career Academy

Industry Certification Available: Federal Aviation Administration Part 107 Certified Remote Pilots License and OSHA 10 Hour General Industry Certification

Ivy Tech Dual College Credits Available:

| Course | College Credits | Prerequisite(s) | Other |
|---------------------------------------|-----------------|-----------------|-------|
| AGRI 100 Introduction to Agriculture | 3 | | |
| PAET 100 Introduction to Precision Ag | 3 | | |
| PAET 107 Unmanned Aerial Systems | 3 | | |
| AGRI 223 Plant Pest ID and Control | 3 | | |
| AGRI 280 Co-op Internship | 3 | | |

Radio & Television I

Radio and TV I introduces students to the multi-faceted world of mass communication in the United States. In addition to studying the history of radio and television, students will gain an understanding of the broadcast media as tools of persuasion, and their impact on society. Students will develop oral and written communication skills, acquire software and equipment operating abilities, and integrate teamwork skills. Students will study programming trends and strategies, and also work in video and audio production, including work on Jefferson High School's FM radio station, WJEF. Students will be placed in a work-based learning setting in the community. Admittance to Radio-TV I is by instructor consent after the audition process is completed. Auditions will be scheduled during spring semester and held at Jefferson High School.

DOE Code: 5986 (1 credit)/5974 (2 credits)

Recommended Grade Level: 11, 12

Required Prerequisite: Successfully complete an audition and earn a 'C' or better in previous semester English class.

High School Credits: 2 semester course, 2 semesters required, 3 credits per semester, 6 credits maximum

Counts as a Directed Elective or Elective for all diplomas

Course Fees: 0

Class location: Lafayette Jefferson High School

Industry Certification Available: None

Vincennes University Dual College Credits Available:

| Course | College Credits | Prerequisite(s) | Other |
|--|-----------------|-----------------|---|
| BCST 102 Intro to Audio-Video Production (fall) | 3 | Accuplacer | |
| BCST 120 Audio Production (fall/spring) | 3 | BCST 102 | Qualifies for THD Priority Dual Credits |
| BCST 140 Video production I - Studio Production (spring) | 3 | BCST 102 | Qualifies for THD Priority Dual Credits |

Radio & Television II

Radio and TV II continues training in radio with WJEF, the school's 250 watt FM radio station. Students will continue learning on-air DJ techniques, news/sports/weather announcing, and news writing skills for radio. After school experiences are a requirement for both A and B semester grades. Students wishing to further their education in radio can become involved in live sports broadcasts on WJEF. All students will work in video production through a series of projects ranging from studio commercials to school interview and newscast programs. Students will also develop oral and written communication skills and learn communication ethics and law.

DOE Code: 5992 (1 credit) /5974 (2 credits)

Recommended Grade Level: 12

Required Prerequisite: RTV I instructor consent

High School Credits: 2 semester course, 2 semesters required, 3 credits per semester, 6 credits maximum

Counts as a Directed Elective or Elective for all diplomas

Course Fees: 0

Class location: Lafayette Jefferson High School

Industry Certification Available: None

Vincennes University Dual College Credits Available:

| Course | College Credits | Prerequisite(s) | Other |
|---|-----------------|-----------------|-------|
| BCST 206 Video Production II - Field Production | 3 | BCST 102 | |

Welding Technology (NLPS)

Principles of Welding Technology includes classroom and laboratory experiences that develop a variety of skills in oxy-fuel cutting and basic welding. This course is designed for individuals who intend to make a career as a Welder, Technician, Designer, Researcher, or Engineer. Emphasis is placed on safety at all times. OSHA standards and guidelines endorsed by the American Welding Society (AWS) are used. Instructional activities emphasize properties of metals, safety issues, blueprint reading, electrical principles, welding symbols, and mechanical drawing through projects and exercises that teach students how to weld and be prepared for postsecondary and career success. Shielded Metal Arc Welding involves the theory and application of the Shielded Metal Arc Welding process. Process theory will include basic electricity, power sources, electrode selection, and all aspects pertaining to equipment operation and maintenance. Laboratory welds will be performed in basic weld joints with a variety of electrodes in the flat, horizontal and vertical positions. Emphasis will be placed on developing the basic skills necessary to comply with AWS industry standards. Gas Welding Processes is designed to cover the operation of Gas Metal Arc Welding (MIG) equipment. This will include all settings, adjustments and maintenance needed to weld with a wire feed system. Instruction on both short-arc and spray-arc transfer methods will be covered. Tee, lap, and open groove joints will be done in all positions with solid, fluxcore, and aluminum wire. Test plates will be made for progress evaluation. Schools may choose to offer the course as a comprehensive MIG Welding course or a combination of introductory MIG and TIG Welding operations

DOE Code: 7110, 7111, 7101

Recommended Grade Level: 11, 12

Required Prerequisite: none

High School Credits: 2 semester course, 2 semesters required, 1 credit per semester, 2 credits maximum for each course:

7110 Principles of Welding Technology

7111 Shielded Metal Arc Welding

7101 Gas Welding Processes

Counts as a Directed Elective or Elective for all diplomas

Course Fees: \$50.00
Class location: Greater Lafayette Career Academy
Industry Certification Available: None

Ivy Tech Community College Dual College Credits Available:

| Course | College Credits | Prerequisite(s) | Other |
|--------------------------------|-----------------|-----------------|---|
| WELD 100 Oxy-Acetylene Welding | 3 | Accuplacer | Qualifies for THD Priority Dual Credits |
| WELD 108 | 3 | | Qualifies for THD Priority Dual Credits |
| WELD 207 | 3 | WELD 100 | Qualifies for THD Priority Dual Credits |
| WELD 206 | 3 | | Qualifies for THD Priority Dual Credits |
| WELD 208 | 3 | | Qualifies for THD Priority Dual Credits |

Welding Technology Capstone (NLPS)

The Welding Technology Capstone course builds upon the knowledge and skills developed in Welding Fundamentals, Shielded Metal Arc Welding, and Gas Metal Arc Welding by developing advanced welding skills in Gas Tungsten Arc Welding (TIG), Pipe Welding, and Fabrication. As a capstone course, students should have the opportunity to apply their knowledge and use skills through an intensive work-based learning experience.

DOE Code: 7226
Recommended Grade Level: 12
Required Prerequisite: Welding Technology
High School Credits: 2 semester course, 2 semesters required, 3 credits per semester, 6 credits maximum
Counts as a Directed Elective or Elective for all diplomas
Course Fees: \$50.00
Class location: Greater Lafayette Career Academy
Industry Certification Available: None

Vincennes University Dual College Credits Available:

| Course | College Credits | Prerequisite(s) | Other |
|-----------|-----------------|-----------------|-------|
| WELD 272 | 3 | | |
| WELD 273* | | | |
| WELD 203* | | | |
| WELD 210* | | | |
| Elective* | | | |

Work Based Learning Capstone

WORK BASED LEARNING CAPSTONE 5974 (WBL) Work Based Learning Capstone is a stand-alone course that prepares students for college and career. This strategy builds students' skills and knowledge in their chosen career path. Work Based Learning Capstone experiences occur in workplaces and involve an employer assigning a student meaningful job tasks to develop his or her skills, knowledge, and readiness for work. A

clear partnership agreement and training plan is developed by the student, teacher, and workplace mentor/supervisor to guide the student's work based experiences and assist in evaluating achievement and performance. In stand-alone WBL Capstone courses, students have the opportunity to apply the concepts, skills, and dispositions learned in their pathways in real world business and industry settings. Work-based experiences need to be in an industry setting closely related to a student's CTE pathway. Instructors have a clear partnership agreement and training plan for each student participating in Work Based experiences.

DOE Code: 5974

Recommended Grade Level: 12

Recommended Prerequisite: Complete at least one advanced career and technical education course from a program. Student's worksite placement should align to the student pathway.

High School Credits: 2 semester course, 2 semesters required, 3 credits per semester, 6 credits maximum

Counts as a Directed Elective or Elective for all diplomas

Course Fees: 0

Class location: Greater Lafayette Career Academy

Industry Certification Available: None

Dual College Credits Available: None