



Manufacturing & Logistics

PATHWAY: Welding

Do you want a hands-on career? Do you want to learn all about metal?
Would you like to earn the skills needed for a successful future?

COURSES IN YELLOW are pathway concentrator courses and must be finished with a **C- average or above** to meet Indiana's 3rd requirement to graduate.
COMPLETE ALL COURSES below with a B- or above to graduate with **Academy recognition**.

COURSE NAME	GRADES AVAILABLE	LENGTH	PERIODS PER DAY	DUAL (COLLEGE) CREDITS POSSIBLE
Introduction to Manufacturing OR Manufacturing <i>Same as Introduction to Manufacturing, but this one is only for upperclassmen</i>	9, 10 11, 12	Year Year	1 1	
WELDING TECHNOLOGY I (REQUIRED CONCENTRATOR COURSE)	11, 12	YEAR	2	6
WELDING TECHNOLOGY II (REQUIRED CONCENTRATOR COURSE)	12	YEAR	2	9

Acceptance into some courses may depend on meeting additional requirements listed in the COURSE OF STUDY GUIDE.

State- and Industry-Recognized Certification:
AWS Certified Welder

Must earn a specified certification or dual credit to graduate
with Academy recognition. Apply your senior year.

Check out the list below for more courses related to this pathway - see the Course of Study Guide for details.

- Integrated Chemistry and Physics
- Introduction to Transportation
- Physics
- PLTW Honors Computer Integrated Manufacturing

- Precision Machining I
- PLTW Introduction to Engineering Design
- Sculpture
- Work-Based Learning Capstone

Possible Careers Requiring 0-4 Years of Additional Training or Education

<ul style="list-style-type: none"> • Boilermaker • Cross Country Pipeline • Custom Fabrication • Inspection • Ironworker 	<ul style="list-style-type: none"> • LEAN Management • Maintenance Technician • Marine and Shipbuilding • Millwright • Nuclear Components 	<ul style="list-style-type: none"> • Off Shore Oil Rigs • Pipefitter • Pressure Vessels • Production Welding • Quality Control Technician 	<ul style="list-style-type: none"> • RV Manufacturing • Safety Director • Tool and Die Maker
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Local Industry Partners

Ivy Tech Community College Par-Kan Co	Warsaw Engineering & Fabricating, Inc.
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THREE GRADUATION REQUIREMENTS

	THREE REQUIREMENTS	OPTIONS (Pick <u>at least one</u> in <u>EACH</u> box)
1	HIGH SCHOOL DIPLOMA Must complete <u>at least one</u> item Check all that apply	<input type="checkbox"/> Core 40 <input type="checkbox"/> Core 40 with Academic Honors <input type="checkbox"/> Core 40 with Technical Honors
2	EMPLOYABILITY SKILLS Must complete <u>at least one</u> item Check all that apply	<input type="checkbox"/> Project-Based Learning Experience <input type="checkbox"/> Service-Based Learning Experience <input type="checkbox"/> Work-Based Learning Experience
3	POSTSECONDARY-READY COMPETENCIES Must complete <u>at least one</u> item Check all that apply	<input type="checkbox"/> Complete: Concentrator courses and their prerequisite courses (in YELLOW) from a pathway Maintain a C- average minimum in the CONCENTRATOR COURSES for that pathway Chosen pathway: _____ <input type="checkbox"/> Core 40 with Technical Honors diploma <input type="checkbox"/> Core 40 with Academic Honors diploma <input type="checkbox"/> AP/Dual Credit: Must earn a C- <u>average</u> or higher in at least three courses <input type="checkbox"/> ACT with college-ready benchmarks <input type="checkbox"/> SAT with college-ready benchmarks <input type="checkbox"/> ASVAB with minimum AFQT score to qualify for placement into one of the branches of the US military <input type="checkbox"/> State- and Industry-recognized credential or certification <input type="checkbox"/> State-, Federal-, or Industry-recognized apprenticeship

_____ 's Four-Year Plan

GRAD	English	Math	Science	Social Studies	Physical Education/ Health or 3 FACS	Elective Courses	Pathway and Academy Courses	Summer School Credits
		Fill blanks with electives	Fill blanks with electives	Fill blanks with electives	Fill blanks with electives		Fill blanks with electives	
7/8	Any middle school credits							
9	English 9	Algebra I	Biology I	World History Civ. A or B (9-10th grade)	Preparing for College & Careers			Session A before 9 th grade
	(continued)	(continued)	(continued)	World History Civ. A or B (9-10th grade)	PE credit			Session B before 9 th grade
10	English 10	Geometry	Chemistry I, or ICP, or Physics I		PE credit or waiver			Session A before 10 th grade
	(continued)	(continued)	(continued)		Health or 2 other qualifying FACS credits			Session B before 10 th grade
11	English 11	Algebra II	Qualifying Core 40 science of your choice	U.S. History				Session A before 11 th grade
	(continued)	(continued)	(continued)	(continued)				Session B before 11 th grade
12	English 12	Quantitative reasoning or math recommended		Government				Session A before 12 th grade
	(continued)			Economics (fulfills requirement for quantitative reasoning)				Session B before 12 th grade