



Agriculture

PATHWAY: Animal Systems

Are you interested in animals? Do you want to learn about animal behavior and well-being, or how to raise or medically treat them?

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	DUAL (COLLEGE) CREDITS POSSIBLE	FULFILLS CORE 40 CREDITS AS...
Introduction to Agriculture, Food & Natural Resources	8, 9, 10	Year		
PREREQUISITE FOR CONCENTRATOR COURSES Animal Science <i>To take in 9th grade, must have taken Intro to Agriculture</i>	9, 10, 11, 12	Year	3	Science
ADVANCED LIFE SCIENCE: ANIMALS (REQUIRED CONCENTRATOR COURSE)	11, 12	YEAR	3	SCIENCE & QUANTITATIVE REASONING
AGRIBUSINESS MANAGEMENT (REQUIRED CONCENTRATOR COURSE)	11, 12	YEAR	3	QUANTITATIVE REASONING

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.

- Advanced Life Science: Plants and Soils
- Biology II
- Chemistry
- CTSO Leadership Development in Action- Agriculture
- Environmental Science/AP Environmental Science
- **Future Farmers of America Club (FFA)**

- Integrated Chemistry and Physics (ICP)
- Natural Resources
- Physics
- Supervised Agricultural Experience
- Work-Based Learning Capstone
- Zoology

Possible Careers Requiring 0-4 Years of Additional Training or Education	
<ul style="list-style-type: none"> • Animal Assisted Therapist • Animal Caretaker-Poultry Manager • Aquaculturalist • Artificial Insemination Technician 	<ul style="list-style-type: none"> • Dairy Producer • Equine Manager • Feed Sales Representative • Veterinary Assistant

Possible Careers Requiring 4+ Years of Additional Training or Education	
<ul style="list-style-type: none"> • Agriculture Banking & Finance • Agriculture Educator/Extension Agent • Animal Geneticist • Animal Nutritionist 	<ul style="list-style-type: none"> • Meat Science Researcher • Wildlife Biologist • USDA Inspector • Veterinarian

Local Industry Partners				
Black Pines Animal Sanctuary Boggs Farm Cargill Nutrena Chore Time Brock	Community Animal Hospital Ivy Tech Community College John's Butchershop Krider's Meat Processing	Lake City Animal Health & Wellness Center Lake City Bank Magical Meadows Maple Leaf Farms	Milford Veterinary Miller Cattle Company Miller Poultry Purina Nutrition	Sands Farms Silver Lake Agricenter Silver Lake Vet Clinic The Dog House (North Webster)

THREE GRADUATION REQUIREMENTS	
THREE REQUIREMENTS	OPTIONS (Pick <u>at least one</u> in <u>EACH</u> box)
<p>1 HIGH SCHOOL DIPLOMA</p> <p>Must complete <u>at least one</u> item Check all that apply</p>	<input type="checkbox"/> Core 40 <input type="checkbox"/> Core 40 with Academic Honors <input type="checkbox"/> Core 40 with Technical Honors
<p>2 EMPLOYABILITY SKILLS</p> <p>Must complete <u>at least one</u> item Check all that apply</p>	<input type="checkbox"/> Project-Based Learning Experience <input type="checkbox"/> Service-Based Learning Experience <input type="checkbox"/> Work-Based Learning Experience
<p>3 POSTSECONDARY-READY COMPETENCIES</p> <p>Must complete <u>at least one</u> item Check all that apply</p>	<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