


 A collage of images related to agriculture and natural resources, including a forest, water bottles, a stack of logs, a hand holding soil, a cow, wind turbines, and a laboratory flask.

Agriculture

PATHWAY: Natural Resource Systems

Do you love spending time outdoors interacting with nature? Would you like working to develop and manage forests and natural environments, as well as acquiring various types of marine and wildlife for the benefit of all?

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		
NATURAL RESOURCES (REQUIRED CONCENTRATOR COURSE)	10, 11, 12	YEAR	3	SCIENCE
Advanced Life Science: Plants and Soils OR Advanced Life Science: Animals	11, 12 11, 12	Year Year	3 3	Science Science & Quantitative Reasoning
SUSTAINABLE ENERGY ALTERNATIVES <i>Only offered even graduation years</i> (REQUIRED CONCENTRATOR COURSE)	11, 12	YEAR		SCIENCE

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.

- Agribusiness Management
- Chemistry I
- CTSO Leadership Development in Action- Agriculture
- Environmental Science/AP Environmental Science

- **Future Farmers of America Club (FFA)**
- Integrated Chemistry Physics
- Plant and Soil Science
- Supervised Agricultural Experience
- Work-Based Learning Capstone

Possible Careers Requiring 0-4 Years of Additional Training or Education	
<ul style="list-style-type: none"> • Apiary Worker • Commercial Fisherman • Fisheries Technician • Forest Technician • Geology Technician 	<ul style="list-style-type: none"> • Park Manager • Pulp and Paper Manager • Range Technician • Water Monitoring Technician • Wildlife Manager

Possible Careers Requiring 4+ Years of Additional Training or Education	
<ul style="list-style-type: none"> • Agriculture Educator/Extension Agent • Conservation Scientist • Ecologist • Environmental Engineer • Fish and Game/ Conservation Officer 	<ul style="list-style-type: none"> • Geologist • Hydrologist • Marine Biologist • Solar and Wind Energy Engineer • Wildlife Biologist

Local Industry Partners		
Grace College Center for Lakes & Streams Indiana DNR	Ivy Tech Community College K Water & Soil	Solar Store at Collier's

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