

PATHWAY: Plant Systems

Do you like gardening, plants and the science of how things grow?

Would you like to help feed our growing population by monitoring and improving the quality and safety of our food?

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		
Plant and Soil Science To take in 9 th grade, must have taken Intro to Agriculture Only offered odd graduation years	9, 10, 11, 12	Year	3	Science
ADVANCED LIFE SCIENCE: PLANTS AND SOILS (REQUIRED CONCENTRATOR COURSE)	11, 12	YEAR	3	SCIENCE
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.

- Chemistry I
- CTSO Leadership Development in Action- Agriculture
- Environmental Science/AP Environmental Science
- Future Farmers of America Club (FFA)

- Horticulture Science
- Natural Resources
- Supervised Agricultural Experience
- Work-Based Learning Capstone

Agricultural Journalist Biotechnology Lab Technician Commodity Marketing Specialist Crop Scout Custom Hay/Silage Operator Additional Training or Education Farmer Golf Course Manager Grain Operation Superintendent Greenhouse Manager Rancher

Possible Careers Requiring 4+ Years of Additional Training or Education				
 Agriculture Educator/Extension Agent 	Botanist			
 Agronomist 	 Entomologist 			
 Analytical Chemist 	 Plant Breeder, Geneticist, Pathologist 			
 Bioinformatics Specialist 	Soil Scientist			
 Biosecurity Monitor 	Viticulturist			

Local Industry Partners					
Bishop Farms Boggs Farms Clunette Elevator Deatsman Grain Farm	Ferguson Farms Grace College Agricultural Business Dept Greenmark Equipment	Ivy Tech Community College Louis Dryfus Company Metzger & Sons Trucking North Central Co-op	Parker & Sons Equipment Pioneer Hy-Bred Int. Polk Equipment Ransbottom Farms	Silveus Insurance State Farm Insurance Tom Farms	

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

's Four-Year Plan

GRAD	English	Math Fill blanks with electives	Science Fill blanks with electives	Social Studies Fill blanks with electives	Physical Education/ Health or 3 FACS Fill blanks with electives	Elective Courses	Pathway and Academy Courses Fill blanks with electives	Summer School Credits
8//	Any middle school credits							
	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
3	(continued)	(continued)	(continued)	World History Civ. A or B (9-10th grade)	PE credit			Session B before 9 th grade
0	English 10	Geometry	Chemistry I, or ICP, or Physics I		PE credit or waiver			Session A before 10 th grade
1	(continued)	(continued)	(continued)		Health or 2 other qualifying FACS credits			Session B before 10 th grade
-	English 11	Algebra II	Qualifying Core 40 science of your choice	U.S. History				Session A before 11 th grade
1	(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
1	(continued)			Economics (fulfills requirement for quantitative reasoning)				Session B before 12 th grade