

# Horticulture

Jay County • Adams Central • Norwell • South Adams • Bluffton  
Southern Wells • Belmont • Huntington North • Blackford

## AGRICULTURE: Horticulture & Landscape Management

### POSSIBLE CAREERS:

FARMERS AND RANCHERS  
LANDSCAPERS  
FLORAL ARRANGERS  
GROUNDS MAINTENANCE  
GREENHOUSE MANAGERS  
SOIL SPECIALISTS  
FOREST MANAGEMENT  
CONSERVATION  
FOOD SCIENCE TECHNICIANS



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**Farmers, ranchers, and other agricultural managers typically gain skills through work experience and usually have at least a high school diploma. As farm and land management has grown more complex, more farmers and ranchers now have a bachelor's degree in agriculture or a related field. Additionally, a number of government programs help new farmers get training.technical post-secondary school.**



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### COURSES:

ADV. LIFE SCIENCE: PLANTS & SOILS  
LANDSCAPE MANAGEMENT  
HORTICULTURAL SCIENCE

### CTSO:

FUTURE FARMERS OF AMERICA

### DUAL COLLEGE CREDITS

3 credits at Ivy Tech College

### TECHNICAL HONORS DIPLOMA



### JOB OUTLOOK

Employment of farmers, ranchers, and other agricultural managers is expected to decline moderately by 8 percent from 2010 to 2020. Employment of agricultural and food science technicians is expected to grow by 7 percent from 2010 to 2020.

**Source: Bureau of Labor Statistics**



CTE Cooperative Serving Adams • Blackford • Huntington • Jay • Wells Counties

For more information:  
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**See your school guidance counselor for assistance if your school currently does not offer the classes in which you are interested. There are shared programs among the nine high schools in Area 18's Career and Technical Education.**

Indiana College and Career Pathway Plan – State Model									
Cluster: Agriculture					Pathway: Horticulture & Landscape Management				
Core 40 with Honors High School Graduation Plan*									
*This is a SAMPLE plan for schools to use in planning. Course sequences and grade level in which courses are offered may vary according to local policies, practices and resources.									
Students should enroll in Indiana Career Explorer, complete interest inventories, and investigate careers in clusters & pathways prior to or during the time they create their individual Pathway Plans.									
SECONDARY	Grade	English/ Language Arts	Math	Science	Health/PE Social Studies	CTE/Career Preparation Courses for this Pathway		Other Elective Courses for this Pathway	
	9	English 9	Algebra I	Biology	Health & Wellness/ Physical Ed	Preparing for College & Careers;	Introduction to Agriculture, Food & Natural Resources	Jay County Bellmont	World Language
	10	English 10	Geometry	Chemistry	Geography/History of the World or World History/Civilization	Plant & Soil Science Jay County Blackford	** Horticultural Science	Digital Citizenship; Personal Financial Responsibility	World Language
	11	English 11	Algebra II	**Advanced Life Science Plants	US History	**Landscape Management I		Jay County Norwell	World Language
	12	English 12	Math or Quantitative Reasoning		Government Economics	**Landscape Management II			Fine Arts
State specified Pathway Assessments: Dual Credit Exams									
Industry Recognized Certification: NA									

#### Horticultural Science

Horticultural Science is a two semester course designed to give students a background in the field of horticulture and its many career opportunities. It addresses the biology and technology involved in the production, processing, and marketing of horticultural plants and products. Topics covered include: reproduction and propagation of plants, plant growth, growth media, management practices for field

and greenhouse production, marketing concepts, production of plants of local interest, and pest management. Students participate in a variety of activities including extensive laboratory work usually in a school greenhouse. Intensive laboratory applications are a component of this course and may be either school based or work based or a combination of the two. Work-based learning experiences should be in a closely related industry setting.

#### Landscape Management

Landscape Management is a two semester course that provides the student with an overview of the many career opportunities in the diverse field of landscape management. Students are introduced to the procedures used in the planning and design of a landscape using current technology practices, the principles and procedures involved with landscape

construction, the determination of maintenance schedules, communications and management skills necessary in landscaping operations, and the care and use of equipment utilized by landscapers. Upon completion of the program, students have the opportunity to become Indiana Landscape Industry Certified through a state approved program.

#### Plant and Soil Science

Plant and Soil Science is a two semester course that provides students with opportunities to participate in a variety of activities including laboratory work. Topics covered include: the taxonomy of plants, the various plant components and their functions, plant growth, plant reproduction and propagation, photosynthesis and respiration, environmental factors affecting plant growth, diseases and

pests of plants and their management, biotechnology, the basic components and types of soil, calculation of fertilizer application rates and procedures for application, soil tillage and conservation, irrigation and drainage, land measurement, cropping systems, precision agriculture, principles and benefits of global positioning systems, harvesting, and career opportunities in the field of plant and soil science.

### BRITTANY BRIDGES

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Brittany Bridges teaches at Jay County High School and specializes in Horticulture and Landscape Management. A graduate from Purdue University, Bridges brings much to Area 18 having worked in the university greenhouse for five years. She feels it is important for the students to gain practical, hands-on experience, and to learn how to give back to the community. "I've always tried to be involved with the community and I want the kids to be part of that too," Bridges said. She is also co-sponsor of an active, 260-member FFA.



Horticultural Science  
Landscape Management

