Agriculture and Environmental Systems Pathway Model

Start Pre-Agriculture
As early as grade 7
(based on readiness)

Workplace Visits
Job Shadow
Internship
Work

Greenhouse Laborer
Salary: $24,080
Job Growth (10 yr): 1.3%
Annual Openings: 149
Average Tuition: $0 - 4,000

Supervised Experience

Work

Certificate

Greenhouse Manager
Salary: $48,400
Job Growth (10 yr): -4%
Annual Openings: 20
Average Tuition (2 yr): $7,600

Supervised Experience
Internship

Work

Associate Degree, Crop Management

Crop Producer
Salary: $61,190
Job Growth (10 yr): -3.5%
Annual Openings: 1462
Average Tuition (4 yr): $39,700

Internship

Work

Bachelor's Degree, Agronomy

Provided by middle schools, high schools, employers, Ohio Tech Centers, and colleges.

Preparing students for multiple options after high school:
gainful employment and/or postsecondary study.

Agriculture and Environmental Systems Pathway Model

Secondary Pathway: **Horticulture** Postsecondary Program: **Horticultural Science**

Courses with Secondary and Post-Secondary Credits

Secondary	**7 8**	English	Algebra I	Science	Social Studies	Fine Arts	Ag, Food, & Natural Resources	Animal & Plant Science	
	9 10	English	Geometry	Biology	US History	Health (.5) PE (.5)	Greenhouse & Nursery Management	Agronomic Systems	
	11	English	Algebra II	Chemistry	US Government & Economics	Foreign Language	Business Management		
	12	English	Trigonometry	Physics	Psychology	Foreign Language	Ag Econ, International/ Commodies	A&E Capstone	
Post-Secondary	**Year 1 1st Semester**	English	Soil Science	Ag Survey & Professional Development	Animal Agriculture				
	Year 1 2nd Semester	English	Technical Math	Biology	Soil Fertility	Ag Elective	Ag-Business Co-Op Experience		
	Year 2 1st Semester	Public Speaking	Sales & Sales Management	Ag Business Management	Plant Pests	Crop Production			
	Year 2 2nd Semester	Agricultural Capstone	Ag Marketing & Trade	Pest Management	Equipment Mgt., Maint. & Repair	Humanities/ Social Science Elective			

High School CTE Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommend Electives

Visit education.ohio.gov/CareerConnections for reference information

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