



# Agriculture and Environmental Systems Career Pathway

Certificate,  
Water Technician

Associate Degree,  
Environmental Science

Bachelor's Degree,  
Environmental Engineering

## Start Pre-Agriculture

As early as grade 7  
(based on readiness)

## Water Plant Operator

Median Salary: \$43,400  
Job Growth (10 yr): 4.4%  
Annual Openings: 138  
Average Tuition (1 yr): \$0 – \$3,900/yr

## Water Plant Manager

Median Salary: \$52,940  
Job Growth (10 yr): -0.2%  
Annual Openings: 400  
Average Tuition (2 yr): \$3,900/yr

## Utilities Director 👍

Median Salary: \$81,100  
Job Growth (10 yr): 14%  
Annual Openings: 39  
Average Tuition (4 yr): \$9,600/yr



Workplace Visits  
Job Shadow  
Internship  
Work

Supervised Experience  
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Work

Supervised Experience  
Internship  
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Work

Internship  
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Work

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.

 Ohio In-demand Occupations

Data reflects 2014 Ohio labor statistics and public institutions of higher education for 2013-2014. For specific tuition costs, visit [ohiohighered.org](http://ohiohighered.org).



# Agriculture and Environmental Systems Career Pathway

Secondary Pathway: Natural Resource Management

Postsecondary Program: Environmental Science

## An Example of Courses with Secondary and Postsecondary Credits

Secondary	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Ag, Food, & Natural Resources	Natural Resources	
	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	Environmental Science	World Languages	
	11	English III	Algebra II	Chemistry	U.S. History	Environmental Systems Management	World Languages		
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Bio Energy	Hydraulics & Pneumatics		
Postsecondary	Year 1 1st Semester	English Composition I	Biology I	College Algebra	Public Speaking	Wastewater Treatment			
	Year 1 2nd Semester	English Composition II	Biology II	Environmental Sustainability	Water Resources	Environmental Field Biology			
	Year 2 1st Semester	Introduction to Psychology	Chemistry I	Trigonometry	Water Collection	Water Distribution			
	Year 2 2nd Semester	Technical Writing	Utility Management	Statistics	Environmental Policy, Law & Ethics				

### High School Career-Technical Education Program Courses

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

### Required Courses

### Recommended Electives

Visit [education.ohio.gov/CareerConnections](http://education.ohio.gov/CareerConnections) for reference information.

Course titles and sequences will vary between schools.

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