Agriculture and Environmental Systems Career Pathway

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

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

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

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

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Certificate, Water Technician
Associate Degree, Environmental Science
Bachelor’s Degree, Environmental Engineering

Workplace Visits
Job Shadow
Internship
Work

Supervised Experience
---
Work

Supervised Experience
Internship
---
Work

Internship
---
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.
### An Example of Courses with Secondary and Postsecondary Credits

| Secondary | Year | Semester | English | Mathematics | Science | Social Studies | Fine Arts | Ag, Food, & Natural Resources | Natural Resources
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<tbody>
<tr>
<td>7 8</td>
<td></td>
<td></td>
<td>English I</td>
<td>Algebra I</td>
<td>Physical Science</td>
<td>Social Studies</td>
<td>Fine Arts</td>
<td>Ag, Food, &amp; Natural Resources</td>
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<tr>
<td>9 10</td>
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<td></td>
<td>English II</td>
<td>Geometry</td>
<td>Biology</td>
<td>World History</td>
<td>Health (.5)</td>
<td>Environmental Science</td>
<td>World Languages</td>
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<td></td>
<td>English III</td>
<td>Algebra II</td>
<td>Chemistry</td>
<td>U.S. History</td>
<td>Environmental Systems Management</td>
<td>World Languages</td>
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<tr>
<th>Postsecondary</th>
<th>Year</th>
<th>Semester</th>
<th>English Composition I</th>
<th>Biology I</th>
<th>College Algebra</th>
<th>Public Speaking</th>
<th>Wastewater Treatment</th>
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<tbody>
<tr>
<td>Year 1</td>
<td></td>
<td>1st Semester</td>
<td>English Composition I</td>
<td>Biology I</td>
<td>College Algebra</td>
<td>Public Speaking</td>
<td>Wastewater Treatment</td>
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<tr>
<td>Year 1</td>
<td></td>
<td>2nd Semester</td>
<td>English Composition II</td>
<td>Biology II</td>
<td>Environmental Sustainability</td>
<td>Water Resources</td>
<td>Environmental Field Biology</td>
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<tr>
<td>Year 2</td>
<td></td>
<td>1st Semester</td>
<td>Introduction to Psychology</td>
<td>Chemistry I</td>
<td>Trigonometry</td>
<td>Water Collection</td>
<td>Water Distribution</td>
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<tr>
<td>Year 2</td>
<td></td>
<td>2nd Semester</td>
<td>Technical Writing</td>
<td>Utility Management</td>
<td>Statistics</td>
<td>Environmental Policy, Law &amp; Ethics</td>
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</tr>
</tbody>
</table>

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**High School Career-Technical Education Program Courses**

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

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Recommended Electives</th>
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Visit education.ohio.gov/CareerConnections for reference information. Course titles and sequences will vary between schools.