



## GLISTEN Collaborative Cluster Summary – Northeast Ohio Cluster



| Campuses                        | Departments                       | Faculty  | Courses  | Semester or Term | Enrollment | Stewardship Liaisons | Community Partners            | Environmental Service-Learning Project Examples   |
|---------------------------------|-----------------------------------|----------|--|------------------|------------|----------------------|-------------------------------|---|
| University of Akron             | Geology and Environmental Science | Donnelly | Introduction to Geographic Information Systems (GIS) | Fall 2011        | 6          | Houze<br>Gerdes      | Cuyahoga Valley National Park | Create maps of power line right-of-ways including native grasses, shrubs, or trees to inform decision-making about clear-cutting every 3 years by power company   |
| Case Western Reserve University | Biology                           | Bader    | Genes and Evolution                                  | Summer 2010      | 28         |                      | Cleveland Metroparks          | Collect data on the abundance of macro invertebrate populations, the distribution of invasive and native cattails, and the diversity of soil microbes in Lake Abram and the surrounding wetlands for use in developing management plan to preserve the property for use by the public |
|                                 |                                   |          | Aquatic Biology                                      | Fall 2010        | 30         |                      |                               | Conduct Primary headwater Habitat Evaluation and assess the quality of four primary headwater streams at West Creek to promote development of experimentally supported restoration plans for mitigating the negative effects of storm water runoff on local urban watersheds          |

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|--|------------------|----------|---|------------------|------------|----------------------|-------------------------------|---|
| Case Western Reserve University (cont'd) | Biology (cont'd) | Bader    | Aquatic Biology Lab                             | Fall 2010        | 12         | see above            | see above                     | see above   |
|  |                  | Koonce   |   | Spring 2011      | 12         |                      |                               |   |
|  |                  | Burns    |   | Fall 2011        | 6          |                      |                               |   |
|  |                  | Petersen | Principles in Ecology                           | Fall 2010        | 30         |                      |                               |   |
|  |                  |          | Ecology Lab                                     | Fall 2010        | 19         |                      |                               |   |
|  |                  | Bader    | Laboratory in Quantitative Biology              | Fall 2011        | 16         |                      |                               |   |
|  |                  | Koonce   |   | Spring 2012      | 11         |                      |                               |   |
| Baldwin Wallace University               | Biology          | Stanton  | Sustaining Our Local Waterways: The Rocky River | Summer 2010      | 6          | Rahanian             | Rocky River Watershed Council | Monitor aquatic macro invertebrates in three locations along Baldwin Creek (Rocky River tributary) The RRWC identified these 3 sites as their biggest need for data. Stewardship liaisons and the students collected macro invertebrates until the end of August. |
|  |                  |          |   |                  |            | Perry                |                               | Construct rain barrels and educational materials for use on campus, which is in the Rocky River watershed   |

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| Hiram College | Biology     | Taylor  | Introductory Field Biology | Fall 2010        | 24         | Tran<br>Garland<br>Rumora<br>Crowl<br>Consolo | Hiram Historical Society | Remove invasive plants and reconstruct a historic herb garden  |
|               |             |         |                            | Fall 2011        | 30         |   |                          | Create website to highlight sustainable gardening practices  |
|               |             |         |                            | Spring 2012      | 75         |   |                          |  |
|               |             |         | Getting Wired for Learning | Fall 2010        | 16         |   |                          | Transform community gardens from display flower gardens to educational outreach venues for the community, displaying best practices in sustainability (using local materials and native or non-invasive species, while increasing diversity and decreasing harmful use of pesticides and herbicides) |

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| Oberlin College | Environmental Science | Wolfe    | Introduction to the Black River Watershed    | Fall 2010        | 10         | Dancy<br><br>Shevin<br><br>Nisen | Oberlin Public Schools | Assist local public school teachers in their classrooms to implement place-based interdisciplinary environmental education  |
|                 |                       |          |  |                  |            |                                  |                        | Lorain County Community Development Department  |
|                 |                       |          | Practicum in Environmental Education         | Spring 2011      | 4          |                                  | City of Oberlin        | Assist in developing an environmentally and socially contextualized real-time display of water and electricity use in residences and throughout the city as a whole, while examining water quality in the Black River watershed (see <a href="http://www.oberlindashboard.org">www.oberlindashboard.org</a> ) to foster a greater sense of connection between personal resource use and environmental quality |
|                 |                       | Petersen | Ecological Communication                     | Fall 2011        | 8          |                                  |                        |   |
|                 |                       |          |  | Spring 2012      | 8          |                                  |                        |   |
|                 |                       | Masi     | Natural History of the Black River Watershed | Fall 2011        | 24         |                                  |                        |   |

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| Cuyahoga Community College | Biology      | Rifici       | Environmental Technology<br>Environmental Sampling and Analysis<br>Professional Practice | Fall 2010        | 120          | Cenni<br><br>Vogele<br><br>Robertson | Cuyahoga County Planning Commission | Investigate habitat and water quality alterations resulting from restoration of a segment of Mill Creek by monitoring the local urban stream and offer an opportunity for residents to observe changes resulting from stream restoration |
|                            |              | Rowan        | Principles of Biology II   | Fall 2010        | 100          |                                      |                                     | Include the community in water quality monitoring events and present information where community members gather such as local branch of Cuyahoga County Public Library and college community   |
| <b>TOTAL</b>               | <b>TOTAL</b> | <b>TOTAL</b> | <b>TOTAL</b>   | <b>TOTAL</b>     | <b>TOTAL</b> | <b>TOTAL</b>                         | <b>TOTAL</b>                        | <b>TOTAL</b>   |
| 6                          | 6            | 12           | 18   | 5                | 475          | 15                                   | 8                                   | 11   |