

# Cuyahoga Community College, East Campus Green Infrastructure Masterplan Cleveland, Ohio

To support Cuyahoga Community College's innovative Green Academy curriculum, URS developed a green infrastructure masterplan for the East Campus.

The masterplan, for the 250 acre campus located at the headwaters of two urbanized watersheds, will accommodate 8 new academic buildings totaling 480,000 square feet, expanded student services, parking, and an amphitheater, while enhancing the walkability of the campus.

The Green Infrastructure masterplan envisions phased construction of a broad array of measures including permeable pavements, bioswales, raingardens, cisterns, green roofs, stream and wetland restoration, reforestation, as well as solar and wind energy systems. These installations will provide an onsite land laboratory for teaching best management practices to students.

The plan supports the Sustainability Masterplan URS previously prepared for all campus facilities.

The first phase Health Careers Technology Building is under construction and will incorporate and demonstrate green infrastructure measures including raingardens, vegetated swales, a green roof, ecological restoration, and a cistern.



## Green Infrastructure Toolbox

### hardscape & parking

- ex. parking lot bioswales retrofit
- new parking lot bioswales
- permeable pavement
  - grass pavers
  - permeable pavers
  - permeable concrete
  - permeable asphalt
  - permeable recycled glass,tires
- shade trees
- paired studies

### buildings

- LEED certified retrofit buildings
- LEED certified new construction
- green roofs
- vegetated swales
- cisterns & rainwater irrigation
- raingardens
- raingarden planters

### clean energy

- demonstration wind turbines
- solar energy demonstration sites

### ecological restoration

- stream restoration
- daylighting
- stormwater wetlands
- wetland restoration
- reforestation
- meadow & upland restoration
- nature trails & biodiversity research

The Green Infrastructure masterplan envisions a broad array of green infrastructure measures to support the academic curriculum as well as reduce and filter runoff.



The Health Careers Technology Building will incorporate raingardens, vegetated swale, green roof, and a cistern.