

Our Changing Ecosystems Restoration, Climate Change, and Biodiversity, grades 9–12

PROGRAM OBJECTIVES

- Students will learn how ecological restoration increases biodiversity in managed ecosystems and how climate change influences our restoration practices.
- If a long day component is added, students will participate in the practice of land care management.

PROGRAM DETAILS

Length: 1.5–4 hours

Grade level: 9–12

Season: All

Student to naturalist ratio: 15:1

PROGRAM ACTIVITIES

- Collect and research ecosystem data to understand community dynamics.
- Compare restored to non-restored lands.
- Observe consequences of climate change on natural systems.
- Discuss scenarios in which weather changes can change the landscape.
- Analyze Arboretum phenological records, past and present.
- Create a systems map, identifying how parts of the system are connected.
- Remove invasive species, collect seeds, and/or seed a site (long day component).

STANDARDS ADDRESSED

[Wisconsin Standards for Environmental Literacy and Sustainability](#)

ELS.EX2.B.h

ELS.EX3.B.h

ELS.EX5.B.h

ELS.EN7.C.h

[Wisconsin Standards for Science](#)

SCI.LS2.C.h

[Next Generation Science Standards](#)

HS-LS2-6