

Environmental Service Learning Spring 2025 Projects



Center for Earth and Environmental Science





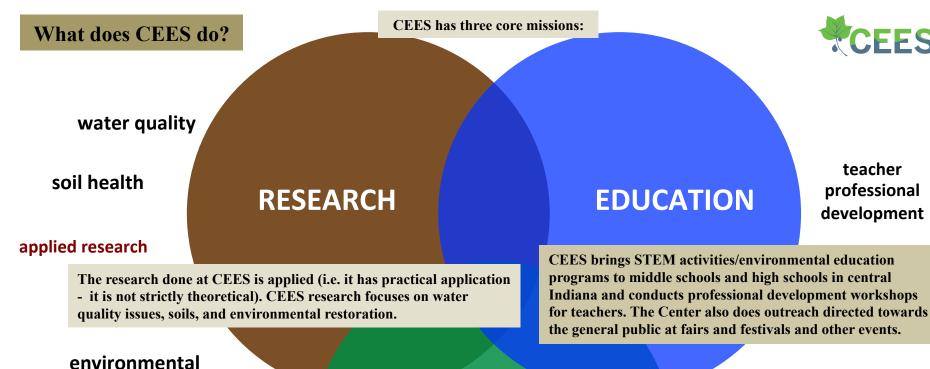
Who is CEES?

What is CEES?



Center for Earth and Environmental Science





STEM programs

CEES is a grant-funded center: its work is made possible through grants, donations (from people like you), and other charitable gifts.

restoration

University funding is minimal.



ENVIRONMENTAL STEWARDSHIP

environmental science themes

Environmental stewardship occurs through the Center's Service Learning program.

community service & education



Environmental Service Learning:

- Providing opportunities for environmental stewardship and experiential learning.
- Engaging in dialog about environmental issues.
- Introducing regional natural areas.
- Introducing groups that maintain these areas.
- Introducing issues to stimulate changes in behavior as well as critical thinking about humanity's role as an agent of change.
- Restoring and improving natural areas.
- Mitigating and preventing pollution.
- Building a sense of community.



Aside from the obvious faculty requirement or extra-credit bribe?



IMPROVE WATER QUALITY

.... and some projects also result in improved water quality – both locally and regionally!



CEES's Service Learning program provides opportunities for all of the above

Service Learning Projects



Spring 2025

Spring 2025 stewardship will focus on:

community science

invasive species removal

environmental clean up



CEES

Bird Watching for Community Science

The Great Backyard Bird Count

Birds are, metaphorically speaking, the canaries in the coal mine for many environmental issues.

Purpose

GBBC (initiated in 1998) is a long term global project that provides a snapshot of bird diversity and abundance in mid February.

Community science projects increase "eyes on the ground" for data observation.

No birding skills needed - we train you for Indiana winter bird ID!

People of all skill levels can take part.

Birding is often the "gateway drug" to an appreciation of the diversity of the natural world – and – participation in community science projects.

Birds hold a middle position in most food webs: they feed on insects, fruits, and grains – lower level components of food webs.

Their dependence on insects to feed their young during the breeding season is particularly important.

This is because birds are large, relatively obvious, and therefore more easily studied.





Environmental impacts affecting lower-level food web components (and thus ecosystem integrity/function) may be more readily observed/assessed through their impacts on birds.

Citizen Science: GBBC











The Great Backyard Bird Count



If your instructor wants you to do a water-quality related project, do not select GBBC.

Home

About the GBBC

Get Started

Submit Observations

Explore Data

Mv eBir

Instructor APPROVAL



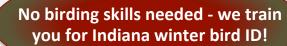
GBBC is always President's Day weekend

2025 Great Backyard Bird Count is February 14-17

Bird watchers of all ages count birds to create a real-time snapshot of where birds are.

Count birds anytime, anywhere, with eBird »

This project is indoors (but we may go outside, weather permitting).



Project 1 & 2

February 14 (Friday)

Project 3 & 4

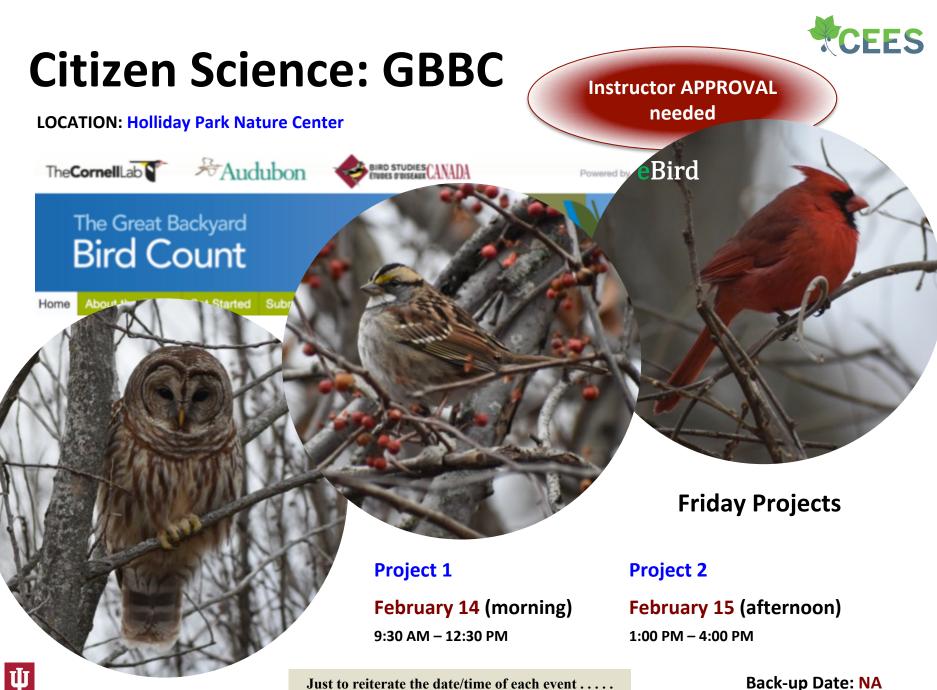
February 15 (Saturday)

There is a morning and afternoon project each day

morning project is 9:30 AM – 12:30 PM afternoon project is 1:00 PM – 4:00 PM

There is no back-up date: we do this project rain or shine.





Back-up Date: NA



Citizen Science: GBBC

We will use the wildlife observation room at the **Holiday Park Nature Center.**

Instructor APPROVAL needed

Bird

The Great Backyard **Bird Count**

About the GBBC Get Started

Project 3

February 15 (morning)

9:30 AM - 12:30 PM

Do you have field glasses or a 35mm DSLR camera?

Project 4

February 15 (afternoon)

1:00 PM - 4:00 PM

Back-up Date: NA

Bring them!



Invasive Species Removal





Invasive Species Removal

Purpose

Removing invasive species helps address (remediate) the various negative impacts caused by the presence of the invasive species in the environment.

improve habitat

These are just a few of the negative impacts invasive species can have.

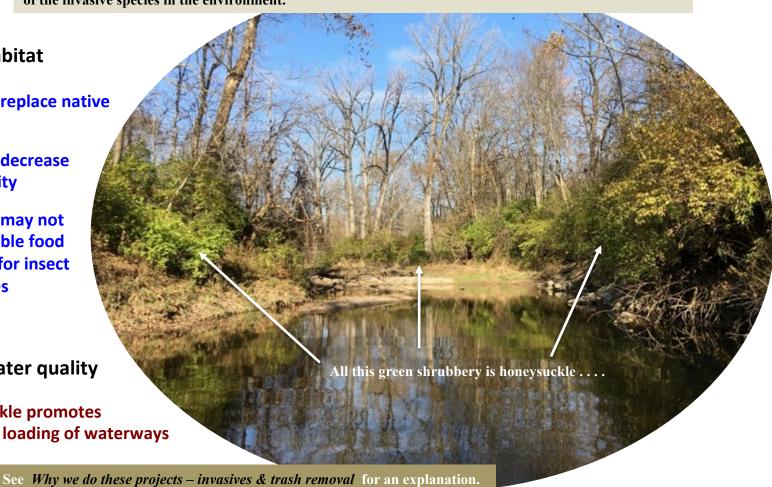
invasives replace native **species**

invasives decrease biodiversity

invasives may not be a suitable food resource for insect herbivores

improve water quality

honeysuckle promotes sediment loading of waterways





Southwestway Park

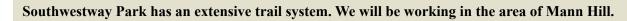
LOCATION: south side of Indianapolis

8400 Mann Rd.

3rd largest park in Indianapolis!

Invasive Species Removal





Project 5

March 28 (Friday)

10:00 AM - 1:00 PM

Project 6

March 29 (Saturday)

10:00 AM - 1:00 PM

Honeysuckle leafs out very early!

Backup Date: Sunday, March 30

10:00 AM - 1:00 PM







LOCATION: north side of Indianapolis near 64th St.

Project 7

April 18 (Friday)

10:00 AM - 1:00 PM

Project 8

April 19 (Saturday)

10:00 AM - 1:00 PM

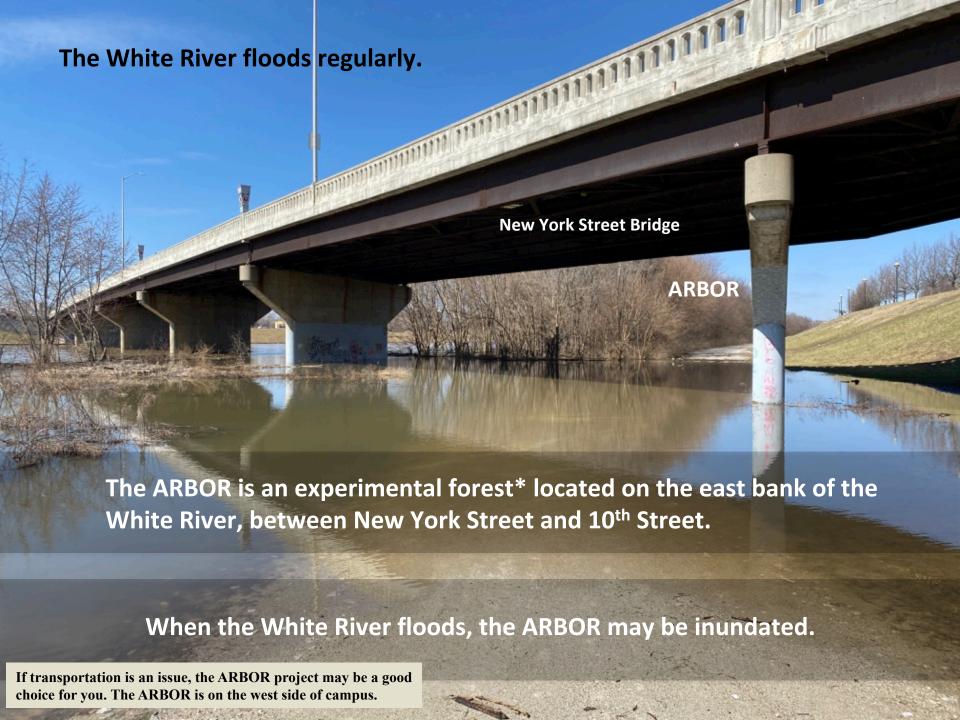
Invasive Species Removal

Back-up Date: April 20 (Sunday)

10:00 AM - 1:00 PM

Holliday park is a location with a lot of topography. We will be "off trail" and it can get rather muddy at this time of year.











ARBOR Trash Clean-up

The White River floods frequently.

Purpose

With each flood event, trash is deposited in the floodplain.

return recyclables to the recycling stream

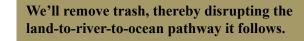
interrupt the land-to-ocean pathway of plastics

improve habitat

improve water quality

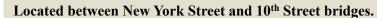
Collected trash will be sorted as recyclable or nonrecyclable, and disposed of accordingly.

the west side of campus - it's the forest located along









The ARBOR is a riparian forest on the east bank of the White River. The trees (initially just tiny twigs and small saplings) were planted during service learning events that took place in the fall of 2000.

"Riparian" simply means that the forest is is located along a river or stream.

All sorts of odd trash is found at the ARBOR.

ARBOR



URBAN WILDERN



LOCATION: Lilly ARBOR – Porto Alegre St. between 10th Street and New York Street bridges

Project 9

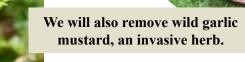
Friday, April 4

10:00 AM - 1:00 PM

Backup Date:

April 6 (Sunday)

10:00 AM - 1:00 PM

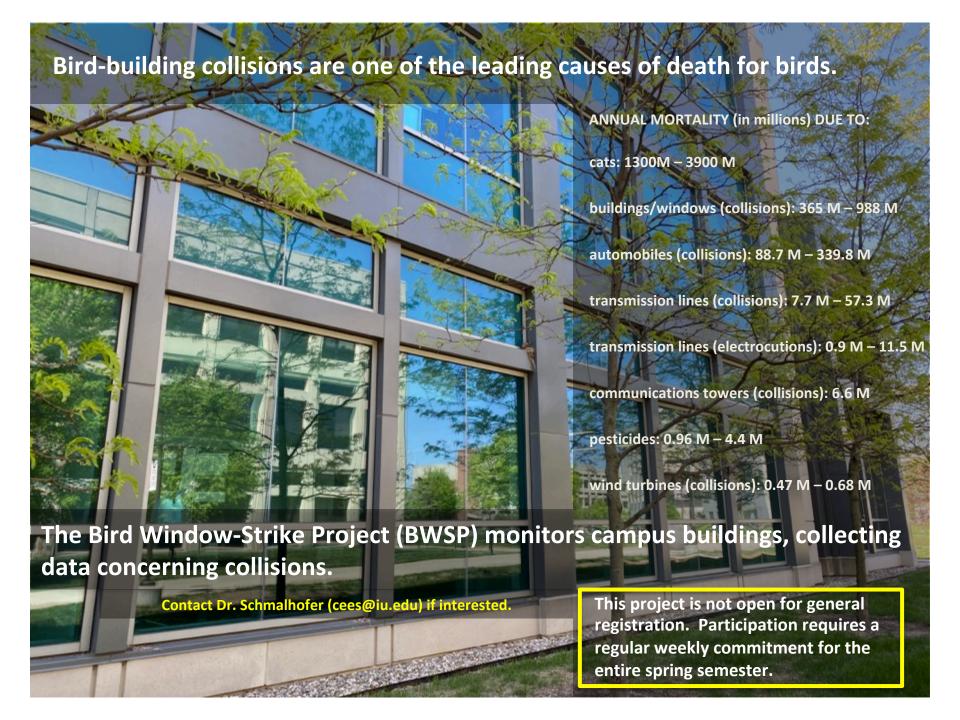


Project 10

Saturday, April 5

10:00 AM - 1:00 PM





For more information about the BWSP



NEWS



INDIANA UNIVERSITY INDIANAPOLIS

go to the CEES Service Learning menu a

SCHOLARSHIPS / JOBS

Center for **Earth** and **Environmental Science**

More information about the Bird Window Strike Project (BWSP) can be found on the CEES web site.

Use the *Information*and Resources link
under the Service
Learning drop-down
menu to navigate to the
project page.



Environment education a

Our vision is to greenvironmental and through our resea outreach, and put stewardship.

What to Expect
Register
Reflective Essay
Faculty Sign-up
FAQ
Information and Resources

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SERVICE LEARNING

Read more about CEES







Education



Environmental Stewardship



SCHOLARSHIPS / JOBS

Center for Earth and Environmental Science

ABOUT

RESEARCH

EDUCATION PROGRAMS

SERVICE LEARNING

NEWS

You don't have to officially take part in the project to help out. If you find a dead or injured bird on campus, use the link at the bottom of the page to report the bird to CEES.



Current Projects &
Events

More Project
Information

All Project Sites

Our Community

Bird window strike project

As with many other organisms, bird numbers have declined significantly in recent decades. Bird-building collisions (typically window strikes) are an important source of bird mortality and contribute to an estimated 365 million to 988 million bird deaths in the United States annually.¹

The project page provides details about the project and links to resources.

Service Learning Registration



The registration process is described under a separate link.

The Process . . .





Questions?

Contact:

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Stay Connected!

Facebook: www.facebook.com/CEES.IUI





Center for Earth and Environmental Science at IU Indianapolis

897 likes • 955 followers



Service Learning photos are posted to our Face Book page.

Interesting environmental science, ecology & geology themed material is posted as well.





MUCH LEARNING

VERY SERVICE

SO WATER

The Doge is no longer considered funny – alas!

'Tis not a vibe.

Its humor has ceased to be.

This is an ex-meme.



AMAZE

SUCH CLEAN

WOW