

# Our Commitment to Great Teaching and Community Involvement

- >> EarthEd is a two-part program designed to help teachers to teach great science.
- >> The program kicks off with the prestigious week-long EarthEd Institute, sharing current research and best current practices from notable researchers in the earth and environmental sciences. Scientists and graduate students assist teachers in developing labs and lessons based on cutting edge authentic science and aligned with NYSDOE standards and expected outcomes. The summer institute provides 30 hours of continuing education credits.
- >> The second component, EarthEd Outreach, is a highly selective program for classrooms in WNY. This year-long program takes applicants from the EarthEd Institute and pairs them with upper graduate students and professors for a year to seamlessly integrate their summer projects into their annual curriculum.

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# 2023 EarthEd Institute

Professional Development Institute  
and Inquiry-Driven Student Projects



**Ecology**



**Research**



**Education**



**Geology**

A proud two-part collaboration between  
Public School Teachers and the Departments  
of Geology and Environment and  
Sustainability at the University at Buffalo.



University at Buffalo

College of Arts and Sciences



D. Levere, 2021

## EarthEd Summer Institutes

Our departments have developed two different (but connected) 30-hour NYSDOE accredited professional development workshops.

**The Earth Sciences Workshop is geared for those teaching grades 6–12 in content areas including geology, geography, climate patterns, meteorology, oceanography, and other earth related processes.**

**The Environmental Sciences Workshop is designed for teachers in grades 6–12 that emphasize topics like ecology, ecosystem functioning, evolution, pollution, population, climate change and natural history.**

**2023 EarthEd Institute fees will be covered through generous grant funds made available through various grants and donations!**

**email: [earthed@buffalo.edu](mailto:earthed@buffalo.edu) for details.**

## What are the Summer Institutes?

Each of the workshop's days are broken into a morning and afternoon session. Morning sessions feature College of Arts & Sciences faculty presentations on their latest research and its relevance to today's state standards, followed by hands-on activities on the morning's topic that you can take back to your classroom. Best current practices in earth and environmental education will be demonstrated by master teachers and integration specialists, who will help you to develop lessons and labs that engage many differentiated learning styles. We will also develop resources on how to integrate short trips into your classroom. Discussion forums on the practicality of experiential learning in your classroom, where to find support, and how to get your administrators and colleagues on board will be offered every step of the way.

**Workshops include travel costs and fees for field trips in the Buffalo-Niagara area, and professional development credit hours.**

We know that change comes slowly and is not always easy. Attending the EarthEd Institute gives you access to the professors and graduate students that helped you develop your lessons in the first place. Monthly online meetings help you to implement your inquiry-based projects, and the network of fellow teachers and collaborators offers participants to discuss and troubleshoot whatever comes your way!

## EarthEd Outreach

**Let UB's Departments of Geology and Environment & Sustainability support and enhance your classroom!**

The follow-up program is EarthEd Outreach. Summer Institute participants have the opportunity to apply to become EarthEd Outreach collaborators. This second component brings UB graduate students to your classroom to help you to launch your new lessons and labs with your won students. This relationship is a dual benefit, since our graduate students are content specialists, and they can learn great pedagogy from their hosting teachers and classrooms.

**Our outreach program is fully supported through a network of research grants and gives your class real-life experience and skills in STEAM!**

Acceptance to our outreach program will give you tools and techniques for implementing research into your lesson plans, integrate math and the humanities into your core curriculum and help make course material relevant to your students by engaging them in their communities.

