



CITIZEN SCIENCE

Thursdays, January 27-April 28 (no class Feb 24, Apr 7; 12 weeks)

9:30am-11:00am

Ages 11+

Students become citizen scientists as we explore the research goals of different projects, learn how to properly collect and analyze scientific data and contribute to databases that assist with research about space, animal behavior and the environment.

A laptop, tablet or smart phone would be useful, but not required for each lab. All lab costs are included in registration fee.

Instructor: Nan Reese, MSc, MEd

Location: STEM Lab (suite 21)

Course fee: \$275 OR \$25/lab

10% sibling discount

Register for full semester or individual labs.

LAB SCHEDULE:

Globe at Night Project - Thursday, January 27

Students explore how scientists study light pollution through this citizen science project, learn how to collect data about nighttime light in their area, and contribute as citizen scientists by submitting data to the global database.

Galaxy Zoo Project - Thursday, February 3

We learn to analyze photos and characterize galaxies in the Sloan Digital Sky Survey, as we contribute to a growing database to help determine how galaxy shape determines light emissions.

C-BARQ and Fe-BARQ Projects - Thursday, February 10

For this project, we contribute as citizen scientists by making observations about our pet dogs and cats so scientists at the University of Pennsylvania can better understand the causes of behavioral problems with pets.

Beats Per Life Project - Thursday, February 17

Kids learn how to conduct background research as they search scientific papers for data on the heart rate of various mammal, bird and reptile species and submit the information for researchers at North Carolina State University.

eBird Project - Thursday, March 3



Students become citizen scientists for the Cornell Lab of Ornithology as they learn to identify birds by sight and song, and submit data about birds in their neighborhood to help determine the health of the local ecosystem.

Ant Picnic Project - Thursday, March 10

We conduct feeding experiments to collect data and specimens for researchers at North Carolina State University about the the feeding preferences of different ant species across the world.

iNaturalist Project - Thursday, March 17

Kids use the iNaturalist app to photodocument organisms in their natural habitat which provides data for research projects exploring the diversity and distribution of plants, animals and fungi all over the world.

Soil Collection Program - Thursday, March 24

Students collect samples for the Soil Collection Program database and learn how University of Oklahoma researchers use dirt from your backyard to search for life-saving microbial discoveries.

Cloud Gaze Project - Thursday, March 31

Today, we contribute to the NASA Globe Cloud Gaze project by analyzing cloud cover photographs to help researchers know more about our atmosphere.

Fungal Diversity Survey - Thursday, April 14

Students add to the FunDiS Project by photodocumenting fungi from their area and submitting the photos to the database for identification to contribute to fungal diversity research.

Lost Ladybug Project - Thursday, April 21

This week, we study the biology of ladybugs as we learn to collect data for the Lost Ladybug Project to help scientists find new populations of the native nine-spotted ladybug.

Project Squirrel - Thursday, April 28

Kids learn how to photograph and collect data about local squirrels and their habitats for submission to Project Squirrel to help scientists learn more about tree squirrel behavior and ecology.