

Field Trip Program: Freshwater Ecology

At The North Carolina Arboretum

During this program, students will explore freshwater ecosystems at The Arboretum by monitoring water quality, identifying bioindicators, and analyzing data collected from a stream ecosystem. This hands-on-program has students in the creek taking real time data!

Principles

- Human activity impacts physical and biological factors of streams, including: temperature, dissolved oxygen, pH, and turbidity
- The presence of aquatic insects in a stream provides insight into water quality, which may be impacted by human activity.
- There are a variety of ways that humans impact stream health including agriculture, transportation, construction, factories, and more



Duration: 1.5 hours

Cost: *

Students	Visit Fee	Lunch Location Fee	Program Fee	Total Cost	Total Cost/ Person
10-20	\$65.00	\$20.00	\$105.00	\$190.00	\$19.00 - \$9.50
21-40	\$65.00	\$20.00	\$210.00	\$295.00	\$14.05- \$7.38
41-60	\$95.00	\$20.00	\$315.00	\$430.00	\$10.49- \$7.17
61-80	\$95.00	\$20.00	\$420.00	\$535.00	\$8.77- \$6.69
81-100	\$150.00	\$20.00	\$525.00	\$695.00	\$8.58- \$6.95
101-120	\$150.00	\$20.00	\$630.00	\$800.00	\$7.92- \$6.67

Months Offered: September through October, mid-March to May.

NC Science Essential Standards:

EighthGrade: ESS.8.3.1

Starting Location: In front of the **Education Center** (unless told otherwise) at the program start time (either 9:30 am or 12:00 pm) set upon booking the program. It is recommended that groups arrive on property at least 15 minutes before the start of the program to ensure enough time to complete the program. Groups arriving early may enjoy the property and facilities.

What do my students need?

Students should wear clothing that is appropriate for the weather. In addition, students must be ready to enter the creek at the beginning of the program. Sandals or old tennis shoes may be worn in the creek (not flip flops!). A change of clothing is recommended. Students with accessibility needs are capable of participating in the creek walk. Please notify the Coordinator prior to the day of the program to make any special arrangements.

Want to schedule this program? Fill out the Google Form. For assistance, contact Youth Education, at youtheducation@ncarboretum.org or 828-567-3165 ext. 219

Questions about this program? Contact Rich Preyer, Programs Coordinator, at rpreyer@ncarboretum.org or (828) 412-8558 ext. 626