

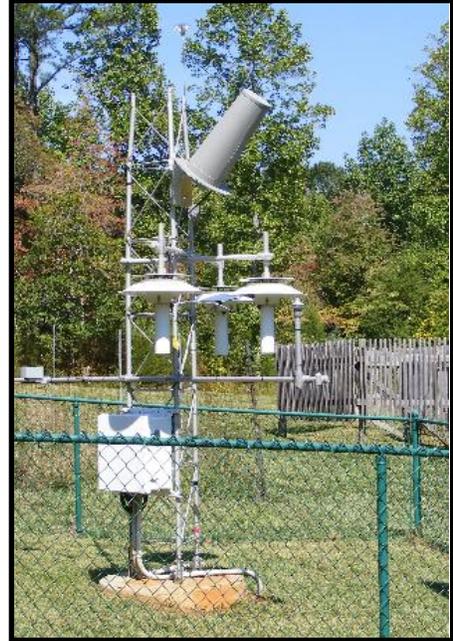
# Field Trip Program- Meteorological Methods

At The North Carolina Arboretum

Students get a first-hand look at technology used in weather monitoring by visiting the Arboretum's own NOAA weather station. Anemometers, thermometers and other instruments are used as student study-groups make weather measurements and predictions in multiple locations to learn about how tree cover and other factors affect temperature and wind speed.

Principles:

- Temperature, wind direction, wind speed, cloud cover and precipitation can measure weather quantitatively.
- Tools such as wind vanes, anemometers, thermometers and rain gauges can be used to take weather measurements.
- Precipitation can be found in many forms, including rain, snow, hail and fog.
- Global patterns such as the jet stream and water currents influence local weather patterns.
- Upcoming weather events can be predicted from weather data collected through observation and measurements.



Duration: 1.5 hours

Cost: \$6.00 per student/parent chaperone. Teachers with the school are free. Payment should be given to the instructor at the start of the program. A second program can be booked at a cost of an additional \$3.00 per student.

Months Offered: September to May.

NC Science Essential Standards:

Fifth Grade: 5.E.1.1, 5.E.1.2, 5.E.1.3

Starting Location: In front of the **Education Center** at the program start time (either 9:30 am or 12:00 pm) set upon booking the program. Groups arriving early may enjoy the property and facilities. Only school groups that have pre-registered for an exhibit visit may enter the exhibits at the Baker Exhibit Center.

*What do my students need?*

Students should wear clothing that is appropriate for the weather. A majority of the program will take place outdoors, so students, teachers and adult chaperones should wear sturdy footwear. Students with physical disabilities or limitations are capable of participating, but the instructor should be told prior to day of the program to make any special arrangements.

Want to schedule this program? Contact Michelle Pearce, Youth Education Coordinator, at [mpearce@ncarboretum.org](mailto:mpearce@ncarboretum.org) or (828) 665-2492 ext. 624