

# STUDENT PROGRAMS DOWNTOWN

PRESCHOOL–GRADE 5

*2015–2016*

## EDUCATOR'S GUIDE

*to Museum Services*

**NORTH CAROLINA Museum of Natural Sciences**  
Downtown Raleigh • corner of Jones & Salisbury Streets • [naturalsciences.org](http://naturalsciences.org)

# STUDENT PROGRAM REGISTRATION

*Preschool–Grade 5*

<b>Ages</b>	Preschool–Grade 5
<b>Dates</b>	Oct. 5, 2015–May 27, 2016 (except where noted)
<b>Times</b>	Programs offered Tuesday–Friday.
<b>Program Fees</b>	\$50 per 1-hour program except where noted. Program length 1 hour unless otherwise noted.
<b>Class Size</b>	Minimum 8, preschool maximum 20, grades K–12 maximum 30 <b>Chaperone Requirements:</b> Six adults per program recommended. Additional adults and siblings may tour building during program. Student attendants not counted.
<b>To Schedule</b>	Call Jon Inscoc, Scheduling Assistant, at 919.707.8860 except where noted. Scheduling request form available online starting August 10 at <a href="#">Link</a>
<b>Scheduling Starts</b>	Tuesday, August 11, 2015 Note: You must register programs at least four weeks in advance of your group’s visit. NRC programs require six weeks advance notice.
<b>Invoice</b>	Will be e-mailed within five days of your confirmation from the Scheduling Assistant.
<b>Cancellation</b>	A minimum two-week notice in writing is required for refund. Groups that do not cancel will be billed the full amount of the programs.
<b>Weather Cancellation</b>	If the Museum or the group needs to cancel due to weather, the program will be rescheduled at the teacher’s request and as the Museum’s calendar permits.
<b>Financial Assistance</b>	Limited availability for some groups. For information, please contact Liz Baird, Director of Education, at <a href="mailto:liz.baird@naturalsciences.org">liz.baird@naturalsciences.org</a>
<b>Special Populations</b>	Most programs can be tailored to meet the needs of special populations. Please indicate the special needs of your group when scheduling a program.

# STUDENT PROGRAM DESCRIPTIONS

*Preschool–Grade 5*

## PARENT-LED PROGRAMS

*Parents with children 3 years old and younger*

*Fee: \$35*

*NEC, Discovery Room*

*Wednesday to Friday*

Especially for play groups and young home school groups, this program reserves the Discovery Room. After a brief introduction, Museum staff provides guidance and room supervision during this 45-minute experience. Staff will share a special animal friend with the families.

## DINOSAURS ROAR!

*Preschool–Grade 1*

*NEC, Discovery Room*

*Wednesday to Friday*

*K.L.1, 1.L.1*

Take an imaginary field trip back to the time of dinosaurs. Discover how long, how tall and how hungry dinosaurs were. Meet some live animals whose ancestors lived in prehistoric times. Program includes 20 minutes of Discovery Room exploration, teacher packet and a natural science object for the classroom.

## YOUR BACKYARD IN FALL, WINTER, SPRING OR SUMMER

*Preschool–Grade 1*

*NEC, Discovery Room*

*Wednesday to Friday*

*K.L.1, 1.L.1, 1.L.2*

Discover the fascinating world of your backyard. Meet this season's backyard "stars": live animals like box turtles, beetles, rabbits, salamanders and flying squirrels. Learn how backyards can be good animal homes and how animal activity changes with each season and the weather. Program includes 20 minutes of Discovery Room exploration, teacher packet and a natural science object for the classroom.

## BEAVER PONDS

*Kindergarten–Grade 1*

*NEC, Discovery Room*

*Wednesday to Friday*

*K.L.1, 1.L.1, 1.L.2*

Meet wet creatures, such as dragonfly nymphs, frogs, tadpoles and turtles that live in or near the Piedmont pond. Learn how they eat, swim and grow up in ponds designed and built by beavers. Program includes 20 minutes of Discovery Room exploration, teacher packet and a natural science object for the classroom.

## ROCK STORIES

*Kindergarten–Grade 1*

*NEC, Discovery Room*

*Wednesday to Friday*

*K.P.2, K.L.1, 1.E.2*

Share a journey through time with three rocks: metamorphic, igneous and sedimentary. Learn how rocks are formed. Meet a live animal whose ancestors can be found in the fossil record. Program includes 20 minutes of Discovery Room exploration, teacher packet and a natural science object for the classroom.

## ANIMALS 2 X 2

*Kindergarten–Grade 1*

*All seasons*

*NEC, Curiosity Classrooms*

*K.L.1, 1.L.1, 1.L.2*

There are different kinds of animals in all shapes, sizes and colors roaming our planet. They move in different ways and have various coverings on their body. In this program, students will meet live animals of the same type, and compare and contrast them.

# STUDENT PROGRAM DESCRIPTIONS

Preschool–Grade 5

## NORTH CAROLINA WILDLIFE

Kindergarten–Grade 1,2,4,5

NEC, Curiosity Classrooms

K.L.1, 1.L.1, 1.L.2, 2.L.1, 4.L.1, 5.L.2

Find out where wildlife lives — from the mountains to the coast to your own backyard. Investigate the amazing variety of habitats in the Tar Heel State and meet some of the animals that call North Carolina home. Touch several live animals. This hands-on program is adapted to grade level.

## ANIMAL LIFE CYCLES

Grade 2

NEC, Curiosity Classrooms

2.L.1

How do living creatures grow and change? Students will explore the life cycle of five major groups of animals: amphibians, reptiles, mammals, birds and insects. Meet live animals and learn about their stages of development.

## GREEN PLANTS

Grade 3

NEC, Curiosity Classrooms

3.L.2

Why so green? Examine plants through hands-on activities and role-playing. Students will observe plant structures, and learn how plants compete with each other and defend themselves from predators.

## TEACHER-LED EXPLORATION OF COLLECTIONS

Grades 3–12

NRC, Naturalist Center

Available year round

Mondays, 9, 10 and 11 a.m.

Thursdays, 6 and 7 p.m.

Maximum 15 Students

Fee: \$35 per hour program

Teachers can conduct their own lessons while using the Naturalist Center's collections and equipment. Museum staff provides room supervision. We recommend that teachers visit the Center before bringing their class. This program is ideal for Envirothon and Science Olympiad teams, scout troops, home school groups and science clubs. Room can be reserved for up to two hours maximum. A five-minute orientation is required for all new visitors.

To schedule this program, contact Cindy Lincoln, coordinator of the Naturalist Center, at 919.707.9269, or submit an online scheduling request form.

[naturalsciences.org/education/programs/scheduling-worksheet-form](http://naturalsciences.org/education/programs/scheduling-worksheet-form)

## ANIMAL DETECTIVES

Grade 4

October 2015–January 2016

NEC, Curiosity Classrooms

4.L.1

Why do some animals have slimy skin or webbed feet? Working in teams, students use observation skills and field guides to identify live North Carolina animals and investigate what special adaptations they have for survival. Students will share their findings with classmates.

## FOSSILS: EVIDENCE OF THE PAST

Grade 4

NEC, Curiosity Classrooms

4.E.2

What can we learn from fossils? What do they tell us about past life? Learn how fossil plants and animals reveal clues to the past and explore how life has changed over time in this hands-on, guided program.



# STUDENT PROGRAM DESCRIPTIONS

*Preschool–Grade 5*

## **BONES & MUSCLES OF THE BODY**

*Grade 5*

*NEC, Curiosity Classrooms*

5.L.1

How do the bones and muscles in a human body compare to those in other animals? In this class, students will learn about the skeletal and muscular systems of the human body while explaining those systems in other animal groups.

## **HUMAN BODY SYSTEMS**

*Grades 5–8*

*NRC, Micro World Investigate Lab*

Wednesdays, Thursdays, Fridays

5.L.1

Use models and hands-on activities to explore five major human body systems (digestive, nervous, circulatory, excretory and respiratory) and learn how each system functions to maintain life. The program ends with an optional instructor-led viewing of a dissected fetal pig.

## **SPY CHEMISTRY OF THE AMERICAN REVOLUTION**

*Grades 5–12*

*NRC, Micro World Investigate Lab*

Wednesdays, Thursdays, Fridays

5.L.2, 5.P.2, 5.P.3

Enter the world of historical espionage and learn from an actual event, the Battle of New York, how Colonial spies used the principles of chemistry, geology and biology, and the subtleties of language, to ensure their messages got safely to the intended party. Learn also about the cultural views regarding spies, the evolution of the battle, and how General George Washington and his army barely escaped total destruction.

Social Studies Curriculum Correlations: 5.H.1, 5.H.2

## **WEATHER WONDERS**

*Grades 5–8*

*NRC, Visual World Investigate Lab*

*Thursdays*

5.E.1

By applying real-world applications of science concepts and procedures using computer applications students will learn about weather events firsthand. Students will also learn what causes certain weather conditions and how they affect us.

## **TROPICAL BIODIVERSITY**

*Grades 5–8*

*NEC, Living Conservatory*

5.L.2

See live plants and animals typical of a Central American dry tropical forest during this program that highlights biodiversity within tropical ecosystems, North Carolina's connections with the New World tropics, and plant and animal survival strategies.

## **TROPICAL BUGS AND THEIR NORTH CAROLINA COUSINS**

*Grades 5–8*

*NEC, Living Conservatory*

5.L.2

Delve into the amazing world of insects and spiders and explore the many roles of arthropods in the tropics. Learn about the unique natural histories and unusual adaptations of several tropical arthropods and their North Carolina counterparts.

# STUDENT PROGRAM DESCRIPTIONS

*Preschool–Grade 5*

## **BRINGING THE OUTDOORS IN: WHY AND HOW?**

*Grades 5–12*

*NEC, Living Conservatory*

*5.L.2*

Explore the connections that North Carolina has to the New World tropics and get hands-on experience with the technology that maintains a piece of tropical dry forest on the fourth floor of the Museum.

## **INVESTIGATE LAB EXPERIENCE**

*Grade 5–12*

*NRC, Micro World Investigate Lab or*

*Natural World Investigate Lab or*

*Visual World Investigate Lab*

*Thursdays, Fridays*

*Program Length: 30 minutes*

*Fee: \$35*

Spend the morning exploring one of our Investigate Labs current offerings of hands-on science activities. Topics and activities may vary seasonally.