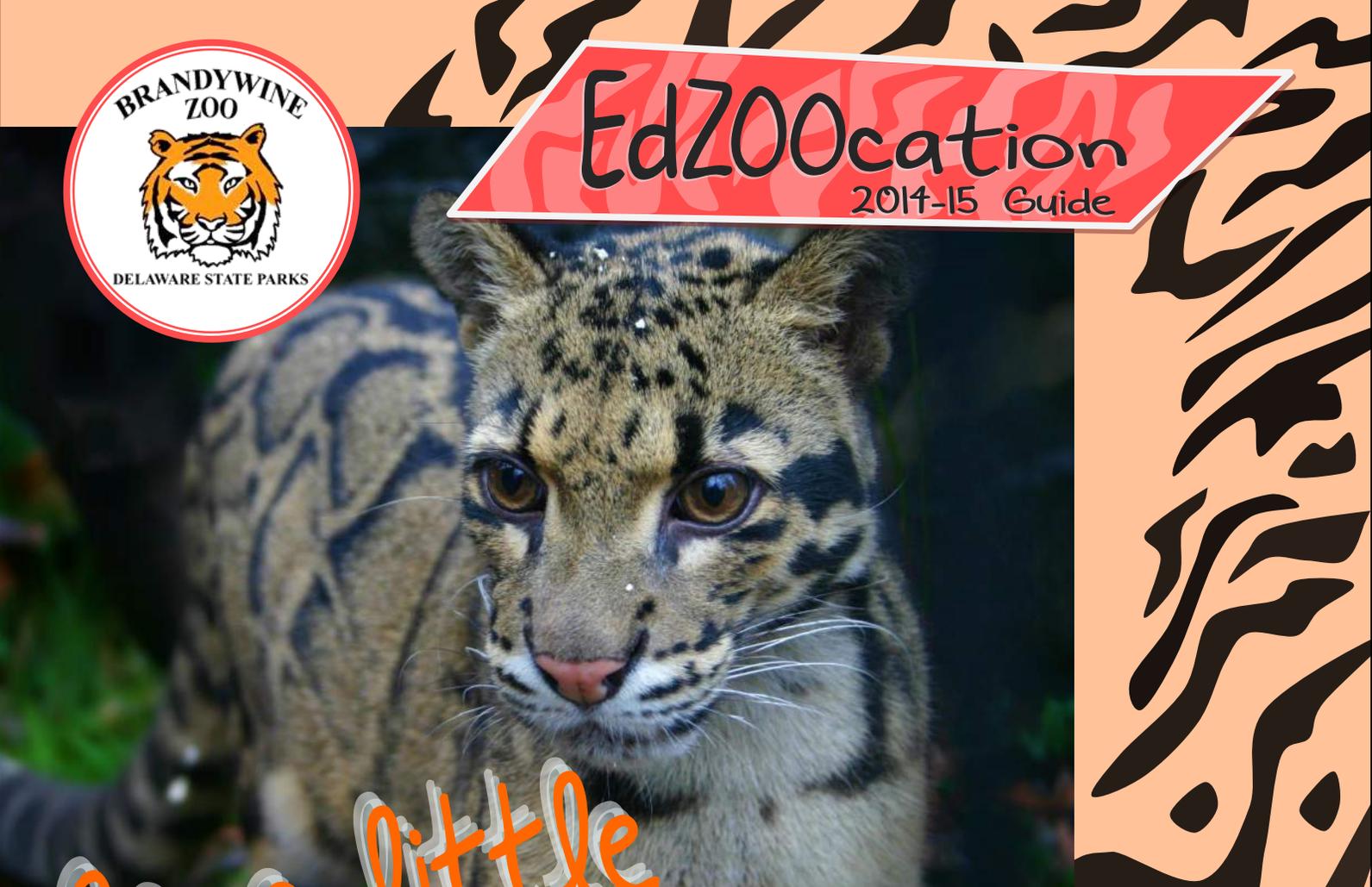




EdZOOcation

2014-15 Guide



Go a little
WILD!



Traveling Zoo Workshops Zoo Tours

The Brandywine Zoo is managed as a part of Wilmington State Parks by the Division of Parks and Recreation, with support from the Delaware Zoological Society





Prices

CALL OR EMAIL TODAY TO BOOK A PROGRAM

Join us for a day at the zoo!

Our Education Department offers a variety of programs which align with curriculum units and National education standards.

Don't forget to check out our **Special Events for Schools** on page 12



Discovery Tour Rates

Program	May-Sept	October-April
Standard	\$8 per person*	\$7 per person*
STEM	\$9 per person*	\$8 per person*
*one free teacher per class (minimum of 15 paid participants or \$100)		

Teachers, mark your calendar!

Fall 2014 Teacher Open House

Friday, October 3 from 5-8pm

Book a program at this open house at receive a 15% discount for fall 2014 programs and a 10% discount for programs in March or April 2015



Join our Education email list by emailing us at DNREC_Parks_ZooPrograms@state.de.us

Traveling Zoo

Look for these symbols to find out if the program is available as a travel or on-site program, or both!



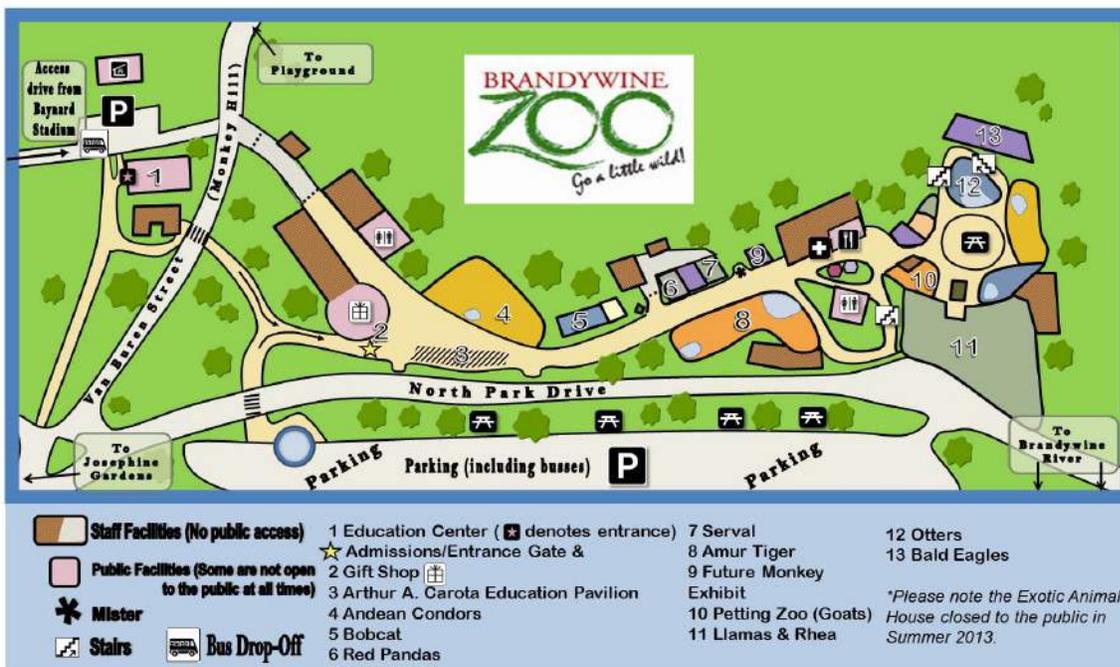
Small Group Traveling Zoo Rates		
Program	Story Time Programs	Standard Programs
Age Group	PreK-2nd Grades & Libraries	Schools/Camps/Adult Centers, etc.
Description	Nature-themed story with live animal presentation	Standards-based program, including live animal presentation
Base Fee	\$175/program + travel fees	\$200/program + travel fees
Additional program fee	\$150 each additional, consecutive program	\$175 each additional, consecutive program
Max per day	3 programs max per day	3 programs max per day
Length and Audience Size	30-35 min Max 50 child audience	40-45 min Max 50 participants

Can't come to the zoo?
Book a **Traveling Zoo** program to have the zoo come to you!

Traveling Zoo fees include both program and mileage rates.

Large Group Traveling Zoo Rates		
Program	Assembly Programs	Walk-By Programs
Age Group	All Ages	All Ages
Description	Standards-based program, including live animals	For public event tables, such as festivals and fairs
Base Fee	\$400	\$250
Additional program fee	\$250	\$50 each additional 30 min.
Max per day	3 programs max per day	Max 3 consecutive hours
Length and Audience Size	40-45 min Max 200 participants	Up to 3 hours No limit for participants

Traveling Zoo Mileage Rates			
Fees measured by distance from Zoo to your site, in one direction			
< 25 miles	\$20 flat rate	56-65 mi	\$65
26-35 mi	\$35	66-75 mi	\$75
36-45 mi	\$45	> 75 mi	\$10 for each additional 10 mi
46-55 mi	\$55		

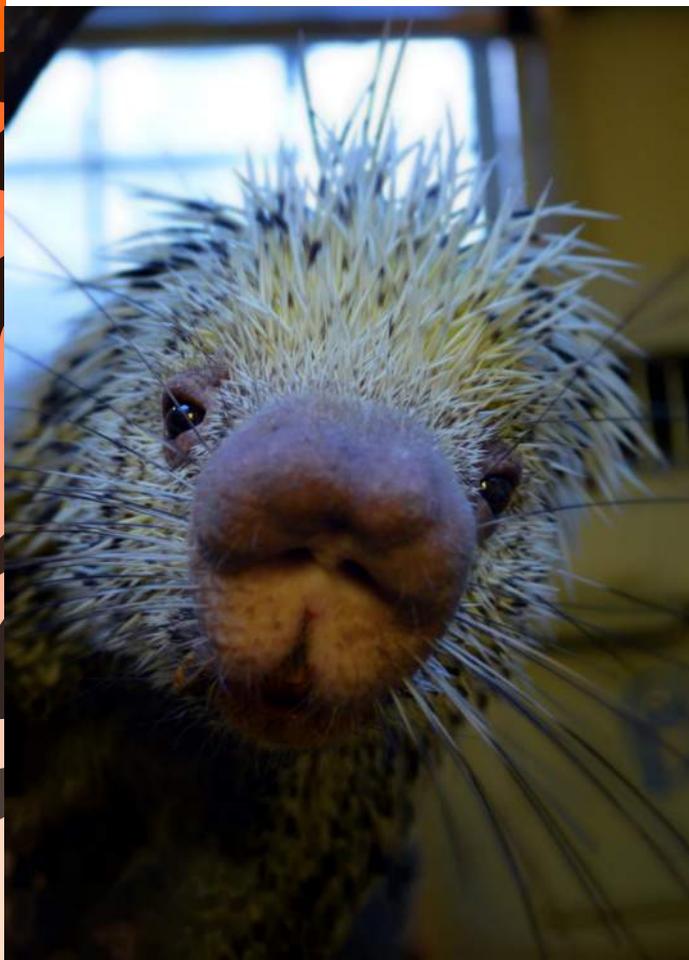


Planning your program

What time of year can I book a program? Discovery Tours in this guide are available during the school year (typically Sept-June) and take place between the hours of 9:30am and 4pm. We offer a limited selection of programs in the summer months, so if you're interested in booking a **summer program**, please see [page 14](#). *Traveling Zoos are available year-round, but may have limited availability to travel in the winter, depending on temperature highs for the day or road conditions.*

How much time should I allot for a zoo program? Our standard **Discovery Tours** are typically 1-2 hours, depending on age of group. Allowing time for bus unloading and loading, as well as visits to the petting zoo, gift shop and bathrooms, you should typically plan for at least 2-3 hours. Our **Traveling Zoo** programs are typically 30-50 minutes, depending on the age of your group.

What are the Zoo's hours? The Brandywine Zoo is open 365 days a year from 10a.m. – 4p.m. Brandywine Park is open dawn until dusk.



How is payment handled? For a **general admission** visit: your group should simply pay at the front gates when they arrive. There is no need to contact the Education Department if you are simply visiting the zoo for the day as a group and do not wish to have a program.



For a **Discovery Tour**: we require a 50% deposit to reserve your tour date. The difference per head can then be paid on the day of your program. If you would like to pay in full ahead of time, that is fine as well.



For a **Traveling Zoo**: you must submit payment in advance of your program. Your contract will specify the program payment date.

Reservations can be made by contacting us at :

Traveling Zoo Line: 302-571-7850x209

Discovery Tour Line: 302-571-7850x208

Or email us at:

DNREC_Parks_ZooPrograms@state.de.us

Design Your Own Program If you do not see a program that covers the information that you wish to illustrate, please call the Zoo's Education Department at 302-571-7850 ext. 208 and let us help you design your own program.

Plan your trip to the zoo...

How many chaperones do I need with my group? We recommend one adult for every 5 students PreK-Grade 2, and one adult for every 10 students grades 3-12 is recommended. Tour groups get one free teacher per class.

What time should we arrive? You should plan to arrive 15 –20minutes before your program time to allow for bus unloading time.

Where do we go when we arrive? Groups that have booked education programs should report to the Education Building, across the street from the main entrance of the zoo. Please see the map of the zoo for locations of Education Building and school bus parking and drop-off areas.

Late Arrivals

-  Due to a very full schedule, programs will not be extended for late-arriving groups beyond the scheduled end time.
-  Staff will make every attempt to cover as much material as possible in the time available.
-  Please obtain information on how to locate the Zoo and the specific meeting location for your group prior to your visit. Refer to the [zoo map on page 3](#) for more detailed location information.
-  Directions to the Zoo are available online at brandywinezoo.org

Teachers often ask us...

What do I do if it rains/snows on the day of my trip?

- We will work with you to provide an option that works the best for you and your students.
- 🐸 We can put on a brave face and deal with the weather... we'll make the most of the bad weather by getting as wet or cold as you and your group get! We can sometimes extend our indoor time, as well.
 - 🐸 Come to the zoo and we will provide a prolonged indoor experience with additional live animals to make it worth the trip!
 - 🐸 We will work with you to reschedule your group for another date that works for you and the zoo.
 - 🐸 If you are unable to reschedule, you can cancel your trip free of charge within 24 hours of your program (only after confirmation from the zoo). We will return whatever funds you have paid toward the trip thus far.

Do Brandywine Zoo Programs meet state education standards?

Yes, our programs are specifically written to align with Delaware State Education Standards as well as National Science Education Standards. The Brandywine Zoo offers a variety of standards based programs for Grades PreK -12.

Is there a gift shop? The Brandywine Zoo's gift shop, "Zootique" offers a variety of fun, educational gifts for students of all ages at a variety of prices. If you would like to schedule a trip to the gift shop we ask that you plan that for before or after your Discovery Tour.

Can we eat lunch at the zoo? You may bring your own lunch or snacks into the zoo. However, there is limited seating for large groups inside the zoo. Seating cannot

- 🐸 be reserved for any group. Brandywine Park is available right outside the main zoo gate; it offers several public picnic tables for your group to eat lunch. *It is a carry in/carry-out park; you will need to provide your own trash bags.*
- 🐸 Our concession stand offers a variety of lunch options. There is also a covered pavilion near the Education Building parking lot that may be reserved. You can contact Wilmington State Parks at 302-577-7020 to make your reservations.

Is there a minimum number of participants for zoo tours?

Yes, we require a minimum of 15 paid participants OR a standard minimum of \$100 per program.



What animals will we meet during the program?

We have approximately 20 education animals that are available for programs from a variety of taxa, including mammals, reptiles, amphibians, and invertebrates, however only 2-4 animals are used per program. Animal choices depend upon the program chosen and animal availability. Specific requests may be made, but ultimately the Zoo has a choice on whether that animal is capable to travel. We will not bring anything that may be harmful to us or to your guests and your site.

Do you have activities that I can do with my class before or after our program?

Yes! Please visit our teacher resources page of our website or ask us if we have complimentary materials for your program. Not all programs have supplementary materials, but just ask!



Kindergarten - 6th Grade

Saving Species

Program Length On-site Tour: 1-1.5 hrs  Traveling Zoo: 40-45min 

All around the planet, endangered species are at risk of going extinct! This program focuses on conservation of endangered species around the world and what YOU can do to help! We'll meet some endangered animal ambassadors and learn what people and zoos are doing to help them and their native habitats. Students will discuss difficult issues and be motivated to take action to help endangered animals.

- 🐾 Students will be able to identify the leading causes of animal endangerment or extinction.
- 🐾 They will learn to define and tell the difference between extinction and endangered and will learn that human actions can have both positive and negative impacts on the environment.

Animal Careers

Program Length On-site Tour: 1-1.5 hrs  Traveling Zoo: 40-45min 

Do you ever wonder what it would be like to work with animals? Learn about the exciting world of zoo careers from our very own 'Dr. Moose!', meet some of the staff's favorite zoo critters, and learn about different careers working with animals.

- 🐾 Students will learn about what courses to focus on in school and types of careers studying or working with animals.
- 🐾 They will learn about the role zoos play in conservation, including specialized captive breeding programs, with an emphasis on genetic diversity.



Grades 7-Adult

Captive Animal Care & Zoo Science

Program Length On-site Tour: 1-1.5 hrs  Traveling Zoo: 40-45min 

Enter the fascinating Zoo world! Learn about why zoos exist and the many different jobs found within. Find out how the Brandywine Zoo takes care of their animal's special needs

- 🐾 Students will learn about the important conservation work zoos do and the different jobs within a zoological park, including exotic animal husbandry.
- 🐾 They will learn about the role zoos play in conservation, including specialized captive breeding programs, with an emphasis on genetic diversity.

Programs for all ages

Tropical Rainforests

Program Length On-site Tour: 1-1.5 hrs 
Traveling Zoo: 40-45min 

What's so special about the rainforest? EVERYTHING! Learn about the journey of one of our favorite rainforest products, chocolate! Then take a walk on the wild side and meet some of our tropical friends!

- 🐾 Students will be able to describe the layers of the rainforest and will learn and give examples of how we can help save the rainforest.



Animal Adaptations

Program Length On-site Tour: 1-1.25 hrs 
Traveling Zoo: 30-35min 

Students will learn about different animal coverings in this introduction to animal classification. Camouflage, fur patterns, defense mechanisms and other adaptations will be discussed in this program.

- 🐾 If requested, program can be focused specifically on the following classes of animals:

 Reptiles

 Mammals

 Amphibians

 Invertebrates



Programs for Students with Disabilities

We'll work with you to tailor any class to meet the needs of all students. We also offer programs specifically designed for groups with disabilities.

Animal Adaptations

Available for all ages

Program Length On-site Tour: 1 hr 
Traveling Zoo: 30-35min 

Minimum of 5 students, with staff as required based on the needs of the group.

Use your senses to explore real animal artifacts, photos, and live animals. Find out how different animals are adapted by taking a closer look at their fur, skin, feathers, and scales. This class can be modified to meet the particular needs of your group.

Animal Encounters

Available for all ages

Program Length On-site Tour: 1 hr 
Traveling Zoo: 30-35min 

Minimum of 5 students, with staff as required based on the needs of the group.

Students meet live animals and touch some of our amazing artifacts. Information is adjusted for the age of student. Their interests and questions guide the discussion on animal features and how they are alike and different.



PreK-Grade 3

Are You My Mother? by P.D. Eastman

Program Length On-site Tour: 1-1.5 hrs 

Begin your tour with the story *Are You My Mother?* and then we'll tour the zoo and discover animal babies and the changes they go through to become adults.

From Head To Toe by Eric Carle

Program Length Traveling Zoo: 30-35min 

Read *From Head to Toe*, then discover facts about animal movement while moving like an animal yourself!

My Little Sister Ate One Hare

by Bill Grossman

Program Length On-site Tour: 1-1.5 hrs 

Traveling Zoo: 30-35min 

Find out how many creatures the little sister eats and meet some of the story animals up close and personal.

The Mitten by Jan Brett

Program Length Traveling Zoo: 30-35min 

Students will learn how fur coats, warm dens, and hibernation are just a few of the interesting means that animals use to stay warm in winter.

Jimmy's Boa Storytime by Trinka Hayes Noble

Program Length Traveling Zoo: 30-35min 

We'll read book from the 'Jimmy's Boa' series and then explore the wonderful world of reptiles.



PreK-Kindergarten

Five Senses [Aligns with Senses Unit]

Program Length On-site Tour: 1-1.5 hrs 

Traveling Zoo: 40-45min 

Different animals use their senses in different ways to see, hear, smell, taste, and touch the environment around them.

- 🐾 Students will identify the five senses and compare their senses with animals' senses.
- 🐾 Students will be able to describe how important the five senses are to an animal's survival.



Creature Categories

Program Length On-site Tour: 1-1.5 hrs 

Traveling Zoo: 40-45min 

Where do animals belong? On a farm, in our house, or in the wild? Find out in this fun-filled program.

- 🐾 Students will identify pets and farm animals, their care requirements, and where they live.
- 🐾 Students will also identify wild animals, their habitat requirements, and where they live.



1st Grade

ZOOrganisms [Aligns with Organisms Unit]

Program Length On-site Tour: 1-1.5 hrs  *Traveling Zoo:* 40-45min 

Students will discover the five things all animals need to survive, help construct a food chain (complete with live animal), and utilize the zoo as an innovative and creative way to learn other concepts, skills, and attitudes.

- 🐾 Students will draw comparisons between themselves and animals.
- 🐾 They will understand the delicate balance of a food web and the role humans play in food chains.



2nd Grade

Spineless wonders [Aligns with **Insects Unit**]

Program Length *Traveling Zoo:* 40-45 min 

Explore the world of invertebrates and find out how these "spineless" animals are specially adapted to survive.

- 🐾 Students will be able to identify, describe, and compare the structures of insects and various other organisms.
- 🐾 They will understand the different stages of development for insects and other organisms.



3rd Grade

Animal Skeletons [Aligns with **Human Bodies Unit**]

Program Length *On-site Tour:* 1-5.2 hrs  *Traveling Zoo:* 45-50 min 

What is a backbone? Do all animals have them? Explore skeleton and body structures of humans and other animals, comparing and contrasting people's and different animals' bodies in this fun, interactive program.

- 🐾 Students will be able to name various skeletal structures of the human anatomy, and will compare and contrast human and animal skeletons.
- 🐾 They will be able to observe live animals and draw conclusions about their skeletal structure and function.



4th Grade

Structures of Life [Aligns with **Structures of Life Unit**]

Program Length *On-site Tour:* 1-5.2 hrs 

Traveling Zoo: 45-50 min 

Students will explore how animals are adapted to live in their habitat and discover the importance of biodiversity and conservation of each organism.

- 🐾 Students will be able to identify and name various plant and animal adaptations.
- 🐾 They will learn to observe an animal and draw logical conclusions about its environment based on observed adaptations.

5th Grade

Habitats [Aligns with **Ecosystems Unit**]

Program Length On-site **Tour:** 1-5.2 hrs 

Traveling Zoo: 45-50 min 

Marshes, Woodlands and Grasslands... just a few of many types of habitats in Delaware where you can find animals. We learn about all different habitats, both here in Delaware and around the world, and meet some animals that come from far and wide!

- 🐾 Students will be able to identify specific adaptations that certain animals have to help them survive different ecosystems.



STEM Programs

Animal Behavior Unit 4th-High School

Use our carefully designed lesson plans to compliment your classroom! Through using animal observation studies, or ethology, students will develop skills in observation, inquiry, data collection, statistical analysis, and writing. This Unit, designed by the Zoo, may include:

- 🐾 A launch lesson plan teaching students the principles of ethology
- 🐾 Be visited by our Traveling Zoo for an on-site introduction to ethology
- 🐾 Do research in your computer lab or at home to synthesize an animal's natural history
- 🐾 Visit the zoo so that students can conduct their own animal behavior research project OR conduct an animal behavior study in your schoolyard



Conducting an Ethogram

Program Length **Traveling Zoo:** 45-50 min 

Become an animal behaviorist for a day in this program focusing on ethograms and wildlife data collection. In this program, students learn how to conduct a behavioral analysis of animals from the zoo's teaching collection. **This program makes a great primer for our Animal Behavior Discovery Tour.**



Animal Behavior Tour

Program Length On-site **Tour:** 2-3 hrs (depending on grade) 

Learn the basics of animal behavior science and make observations to uncover the secret language of the wild. Students will design their own animal behavior study and practice data collection and analysis skills using an ethogram data table.

STEM Program Fees

Traveling Zoo: \$200 + Travel Fees

Discovery Tour: \$8/person Oct-April, \$9/person May-Sept

Discount for scheduling together!

Book both STEM programs and receive a **50% discount on your Traveling Zoo!**

Teen Volunteer Program

The Brandywine Zoo Education Department is looking for dedicated individuals 13 years of age and older who are mature, responsible, motivated, knowledgeable, enjoy working with and can engage the public (particularly children), likes the outdoors, and are passionate about the environment and wildlife conservation. Join us at an open house to learn more about volunteer opportunities, speak with staff, ask questions about the program, and review the steps to our volunteer application process!

Visit BrandywineZoo.org/donate-time.html to see volunteer information and open house dates.

Scout Events & Workshops

Join us with your troop or pack for one of our fun Scout programs. From scout events to workshops, these programs offer girl and boy scouts the opportunity to work toward badge requirements for a variety of animal, nature, and outdoors-focused badges!

Visit brandywinezoo.org/scout-programs.html to learn more about scout programs at the zoo.

Career & Animal Science Workshops

Brandywine Zoo offers a variety of career-focused workshops for pre-teens and teens interested in working with animals. Join us at an upcoming workshop focusing on one of the following topics:

Studying Animals 🦋 Saturday, October 11, 2014, 10-11:30am

What's it take to study animals in the wild? How do we know what they do? Find out how researchers use camera traps, hair snares, radio tracking devices, photographs and even drones to monitor wildlife.

Animal Husbandry 🦎 Saturday, November 22, 2014, 1:30-3

How do we care for our animals here at the zoo? We'll discuss everything from nutrition to vet care in this overview of exotic animal husbandry.

Enrichment 🦋 Saturday, January 17, 2015, 10-11:30am

What is 'enrichment' and why is it so important to animals at the zoo? Discover what our keepers do to enrich the lives of our animals to keep them healthy and happy.

Exhibit Design 🦋 Saturday, February 21, 2015, 1:30-3pm

What does an animals' natural history have to do with how we design exhibits? Everything! During this workshop, we'll look at what it takes to design great exhibits for animals in zoos.

Animal Behavior Studies 🦋 Saturday, March 18, 2015, 9:30a-11a

Become an animal behaviorist for the day and put your observation skills to the test. Learn how zoologists study animals and complete a study of your own.

Animal Health and Veterinary Care 🦋 Saturday, April 18, 1:30-3

It takes a lot to take care of exotic animals. Their health at the zoo is a primary issue as animals age, have young, or develop special conditions. Find out what it means to practice veterinary care in an exotic setting?



Price: \$10/non-member student, \$8 member student. Register for 4 or more sessions at the same time and receive a \$5 discount.

To Register: Email DNREC_Parks_ZooPrograms@state.de.us

School-Day Events

Bring your group for a

School-Day Special Event.

These events feature education stations throughout the zoo as well as live animal demonstrations (as space is available in the classroom).

These events are just \$1 per person, plus admission.

Visit

BrandywineZoo.org/Events

to see upcoming events and programs.

Earth Day for Schools

Friday, April 24, 2015 10-12:30 pm

Endangered Species Day

Friday, May 17, 2015 10-12:30 pm

Price: \$1/person, plus zoo admission

Zoo Admission		
Group Age (15+ participants)	Admission May- September	Admission October- April
0-2 yrs	FREE	FREE
3-17 yrs	\$5	\$3
18-61 yrs	\$7	\$5
62+ yrs	\$5	\$4

School-Year Program Registration Form



Step 1: Complete Registration Form

Step 2: Program registrations can be faxed (302-577-7480), mailed (Education Department of the Brandywine Zoo, 1001 N. Park Drive, Wilmington, DE 19802), or emailed (DNREC_Parks_ZooPrograms@state.de.us) to the Education Department.

Step 3: You will receive a contract with your program date (based on availability) within two weeks of your program registration submission. Please call the Education Department (302-571-7850*209 or 208) if you have not received a confirmation.

Step 4: Discovery Tours -Submit your 50% deposit for your tour to the Brandywine Zoo at the above address with a copy of your contract. Note that Discovery Tour reservations are not considered complete until we receive your 50% deposit for your program. **Traveling Zoo**—payment is due in advance of your program.

Organization Information

Contact Person: _____ School Phone: _____
 Name of Organization: _____ Fax: _____
 Address: _____ Phone for day-of-tour contact: _____
 City: _____ State: _____
 Zip Code: _____ E-Mail: _____

Participant and Program Booking Information:

	Date(s)	Start Time	#Kids	#Adults (including teachers)	Age/ Grade	# of classes	Total \$
1st choice							
2nd choice							

Notes: _____

Select Discovery Tour(s):

- Tours **Pre-K & Kindergarten Programs** (1 hour)
- Five Senses [Unit: Senses] Creature Categories
 - "Are You My Mother?" (storybook)
 - "My Little Sister..." (storybook)

- Tours **1st-3rd Grade Programs**
(1.5-2 hours)
- Animal Adaptations Animal Careers
 - Animal Skeletons [Unit: Human Body]
 - "Are you my mother?" (storybook)
 - "My Little Sister..." (storybook)
 - Saving Species Tropical Rainforests
 - ZOOrganisms [Unit: Organisms]

- Tours **4th-6th Grade Programs**
(1.5-2 hours)
- Habitats [Unit: Habitats] Saving Species
 - Structures of Life [Unit: Structures of Life]
 - Tropical Rainforest Zoo Careers

- NEW: STEM Programs 4th-8th Grade Programs**
(2-3 hours)
- Animal Behavior [math & scientific data collection]

- Tours **7th-12th Grade Programs**
(1.5-2 hours)
- Captive Animal Care & Zoo Science

- Tour **Adult and Special Needs Programs**
(1 hour)
- Animal Adaptations
 - Zoo Careers

Select Traveling Zoo(s):

- Travel **Pre-K & Kindergarten Programs** (30-35min)
- Five Senses [Unit: Senses]
 - "From Head to Toe" (storybook) "The Mitten" (storybook)
 - "Jimmy's Bo" (variable story) "My Little Sister..." (storybook)

- Travel **1st-3rd Grade Programs**
(35-40 min)
- "The Mitten" (storybook) "Jimmy's Bo" (variable story)
 - Animal Skeletons [Unit: Human Body]
 - Saving Species Spineless Wonders [Unit: Insects]
 - Tropical Rainforests ZOOrganisms [Unit: Organisms]

- Travel **4th-6th Grade Programs**
(40-50 min)
- Habitats [Unit: Habitats] Saving Species
 - Structures of Life [Unit: Structures of Life]
 - Tropical Rainforest s Zoo Careers

- NEW: STEM Programs 4th-8th Grade Programs**
(50 min)
- Ethology and Ethograms [math & scientific data collection]

- Travel **7th-12th Grade Programs**
(40-50 min)
- Captive Animal Care
 - Conservation Sciences

- Travel **Adult and Special Needs Programs**
(30-35 min)
- Animal Adaptations
 - Zoo Careers

Check here if you do not wish to receive email bulletins about upcoming Education Department events. The Brandywine Zoo will never sell or distribute your contact information.

