The first accredited Nature Center in the U.S., Lichterman Nature Center features both live and preserved animal specimens, interactive exhibits, and lake, meadow and forest habitats. Putting students in touch with nature has never been easier. The Backyard Wildlife Center and Visitor’s Center are filled with engaging displays that help students make meaningful connections to major themes in life science.

LNC EDUCATION PROGRAMS & TOURS

Instructor-led programs give students the opportunity to immerse themselves in the natural world. Lichterman offers the ideal culminating experience for science units and will allow students a safe and engaging way to explore nature as they learn.

Please note: Chaperone fee for all programs is $4.00, with one chaperone for every 10 students to receive FREE admission.

HABITAT DETECTIVES
(Grades 1 – 12)
Investigate the lake, forest and meadow habitats with interactive learning that incorporates live and preserved wildlife specimens highlighting seasonal, environmental, ecological and conservation concepts.

Fee: $7.00 per student
Up to 180 Students
Up to 2 hours

SUPPORTS CURRICULUM
STANDARDS RELATED TO:
» TN Sci: I, 1, 2, 3, 5
» AR Sci: LS1, LS2, LS3, LS4
» MS Sci: 1a, 1b, 1c, 1d, 3a, 3b, 3c, 3d, 3e

IN YOUR BACKYARD
(Grades K – 8)
Meet your wild neighbors! See live animals, preserved specimens and learn more about animals that call the Mid-South home.

Fees: $6.00 per student
Up to 150 Students
45 minutes

SUPPORTS CURRICULUM
STANDARDS RELATED TO:
» TN Sci: I, 1, 2, 3, 4, 5
» AR Sci: LS1, LS2, LS3, LS4
» MS Sci: 1a, 1b, 1c, 1d, 3a, 3b, 3c, 3d, 3e

BIRD WALK WITH BINOCULARS
(Grades 4 – 8)
Grab some binoculars and a field guide and join us for bird-watching. Visit the forest, lake and meadow habitats using binoculars and field guides to spot and identify different birds living in each unique habitat.

Fee: $8.00 per student
Minimum of 30 Students
Maximum of 60 students
90 minutes

SUPPORTS CURRICULUM
STANDARDS RELATED TO:
» TN Sci: I, E/T, 1, 2, 3, 4, 5
» AR Sci: LS1, LS2, LS3, LS4
» MS Sci: 1a, 3a, 3b, 3c

COME TO YOUR SENSES
(Grades Pre-K – 1)
Humans use five senses to survive and explore the world around them. Use your own senses to learn more about the senses that other animals use to survive.

Fees: $6.00 per student
Up to 30 Students
Up to 1 hour

SUPPORTS CURRICULUM
STANDARDS RELATED TO:
» TN Sci: I, 1, 2, 3
» AR Sci: LS1, LS2, LS3, LS4
» MS Sci: 1a, 1b, 1c, 1d, 3a, 3b, 3c, 3d, 3e

WILDCAT WILDCARDS
(FUN FOR ALL AGES!)
Every Tuesday-Saturday in the Backyard Wildlife Center at noon, come and observe the snakes, turtles or raptors at lunch time. Ask questions, meet animals and find out what the animals are having for lunch!

SUPPORTS CURRICULUM
STANDARDS RELATED TO:
» TN Sci: I, 1, 2, 4, 5
» AR Sci: LS1, LS2, LS3, LS4
» MS Sci: 1a, 1b, 1c, 1d, 3a, 3b, 3c, 3d, 3e

NATURALIST NOTEBOOKS
(Grades 2 – 6)
Add an educational nature journal experience to enhance your students’ learning experience. Take-home souvenir notebooks encourage students to draw pictures and record observations as they explore habitats, seasonal changes and adaptations at the Nature Center.

Fees: $2.00 per student
(Note: Bring your own pencil to fill out Notebooks, as they are not provided on site.)

* Available thanks to funding from the Lichterman Loewenberg Foundation
LNC EDUCATION PROGRAMS & TOURS CONT’D

EXPLORING NATURE YOUR WAY
(GRADES PRE-K – 12, SELF-GUIDED)
Walk a forest boardwalk two stories high. Discover what lives in the lake at our underwater viewing area. Watch fish and turtles from the lake & marsh boardwalks and check out interactive exhibits and beautiful trails!

Fee: $4.00 per student
(FREE for TN Title 1 students)
For $2 add a Naturalist Notebook to enhance your students’ experience.

NATURE 2 U: ON & OFFSITE
(GRADES PRE-K – 8)
Available afternoons year-round and selected mornings during the school year.

Come to us or let us travel to your classroom. Activity-packed programs include live or preserved animals, educational games and hands-on exploration.

TOPICS – Amphibians, Arachnids, Bats, Bees, Birds, Butterflies, Insects, Mammals, Nocturnal Animals, Pond life, Reptiles, Spiders

Offsite Fees:
$100 per program.
$75 (2 consecutive programs) per program.
$65 (3 or more consecutive programs) per group.
Each program serves 25 - 30 students. 45 minutes.

Note: Mileage fee added for visits more than 20 miles from the Nature Center. This program is also offered for larger groups for an additional fee.

ANIMALS ALIVE! GRANT PROGRAMS
(GRADES 1 – 8)
Students will gain a new respect and appreciation for native wildlife, and sharpen sensory and observation skills. Presentations include live animals, preserved specimen and interactive demonstrations. This program is FREE of charge for up to 2,000 Title 1 students. Programs will be offered in August-September and December-March.

Up to 150 Students. Up to 1 hour.

SUPPORTS CURRICULUM STANDARDS RELATED TO:
» TN Sci: 1, 1, 2, 3, 4, 5
» AR Sci: LS1, LS2, LS3, LS4
» MS Sci: 1a, 1b, 1c, 1d, 3a, 3b, 3c, 3d, 3e
» TN Soc St: G, H, TN
» AR Soc St: 3, 5, 6
» MS Soc St: G/I, A, CR/HR

NATURE LAB SERIES
NEW!

$8.00 per student • 90 minutes of instructor-led activities.
30 students minimum, 60 students maximum.

Enjoy the best of both worlds bringing outdoor observations into the lab classroom. In this hands-on series, students develop science and technology processing skills by learning to use laboratory equipment and recording observations. Students apply the Scientific Method to draw data-driven conclusions from their outdoor field studies.

OWL PELLET DISSECTION
(GRADES 4 – 8)
High school groups welcome.
Pre and post-visit materials available.
Discover the WHOOO and why behind owl pellets! Students are introduced to the biology and life history of owls while learning how to use dissecting instruments in the laboratory. Students dissect owl pellets in the lab and use data to determine the habitat use of owls.

WATER ECOLOGY
(GRADES 5 – 8)
Available March - November.
High school groups welcome.
Pre and post-visit materials available.
Leap into lake life at Lichterman Nature Center! Students learn field collection techniques for sampling water, collecting aquatic invertebrates and testing water quality of Mertie’s Lake for parameters including pH, dissolved oxygen, temperature and turbidity. Students then work in the lab area to investigate hypotheses and experiments measuring and recording abiotic and biotic factors to describe the water quality of the Lake using the Scientific Method, technology and math skills.

SUPPORTS CURRICULUM STANDARDS RELATED TO:
» TN Sci: 1, 1, 2, 3, 4, 5
» AR Sci: LS1, LS2, LS3, LS4
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SPONSORED BY INTERNATIONAL A PAPER

5992 Quince, Memphis, TN 38119 / www.memphismuseums.org
BOOK YOUR FIELD TRIP TODAY! 901.636.2221 or by email: nature.reservations@memphistn.gov
LICHTERMAN NATURE CENTER
PERMANENT EXHIBITS

HUMAN IMPACT
Discover how there is very little of Earth that is untouched by some form of human impact. Find out what you can do everyday to heighten your appreciation and stewardship for the natural world.

URBAN WILDLIFE
Learn about animals that once roamed freely in the Mid-South, including some still found here. See preserved specimens of rare animals like the Ivory-billed woodpecker.

ADAPTATIONS
Learn how each living creature has adapted a unique combination of features and behaviors in order to survive. See physical adaptations like turtle shells, furs and webbed feet, and also observe behavioral adaptations like camouflage, communication and hibernation.

SEASONS
Seasonal changes are gradual and ongoing. See how some changes are easier to notice, like colorful leaves on a fall day, while other changes, like animal behaviors, are sometimes harder to recognize.

LIFE CYCLES
See how life passes through a series of stages as part of a greater continuing cycle. Learn how animals are born, grow, reproduce and die, just as plants sprout, grow, reproduce and die.

CHANGES
This exhibit helps us understand the changes that are constantly taking place in nature. Learn how ecosystems go through cycles, how lakes can eventually become forests, and how fire can be beneficial to the life cycles of a forest or meadow.

BUCKMAN WATER SCIENCE TRAIL
The panels around Mertie’s Lake display information about the science of water and how it relates to human and environmental health.

BACKYARD WILDLIFE CENTER
Frogs, turtles, and snakes, oh my! This educational gold mine is filled with both living and preserved specimens of native animals. Engage your students with fascinating exhibits like Bites, Stings and Exotic Things, Forest Board Walk, the Lake Viewing Area and the Nature Nook.

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SUPPORTS CURRICULUM STANDARDS RELATED TO:
- TN Sci: 1, 2, 3, 5
- AR Sci: LS1, LS2, LS3, LS4
- MS Sci: 1a/b, 3a, 3b, 3c, 3d, 3e
- TN Soc St: G, H, TN
- AR Soc St: 3, 5, 6
- MS Soc St: G/I A, CR/HR

LICHTERMAN NATURE CENTER TEMPORARY EXHIBITS

SCARECROWS ON DISPLAY • SEPTEMBER 14 – NOVEMBER 17, 2017
Come see scores of scarecrows that convey messages on conservation, ecology, recycling and planting for wildlife. This is a collaborative effort of the Memphis Area Master Gardeners, TN Federation of Garden Clubs and other individuals.

*Entries accepted through September 13, 2017. Applications are available online. Prize given for Best School/Scout Entry!

MALLORY-NEELEY HOUSE GUIDED TOUR
(GRADES K – 12)

Step inside a Victorian time capsule to discover what life was like for wealthy Memphians of the 19th century. Located in the Victorian Village National Register Historic District, this Italianate mansion was built circa 1852 and lavishly redecorated in the 1890s by cotton factor James Neely for his wife and five children. Follow their life stories and learn how they met their needs for food, clothing, shelter and transportation. Compare their social customs to those we follow today. See and handle everyday household items of the era and consider how historic personal, domestic and technological objects evolved to modern times.

Fees: $4.00 per student
Program length: approximately 1 hour (depending on group size)
Number of students: 10 (minimum)

Free for TN Title 1 students, August - February

PARKING - Metered spaces are available along Adams Avenue.

ADA ACCESSIBILITY
• Handicapped van parking space on site
• The carriage house/visitor’s center is fully accessible
• First floor of the house is fully accessible
• A video of the second floor tour is shown in the carriage house/visitor’s center

SUPPORTS CURRICULUM
STANDARDS RELATED TO:
» TN Soc St: C, E, H, TN
» MS Soc St: CR/HR, E, C
» AR Soc St: 5, 10, 12, 13
» TN Sci: I, E/T
» MS Sci: 1c
» AR Sci: ET51

INCLEMENT WEATHER/CANCELLATION POLICIES:
Programs are conducted rain or shine. During inclement weather, programs are presented indoors. If you must cancel your visit, please call no later than 8am same day.

SCHEDULING TIPS:
Classes are held outdoors. Be sure to dress for the weather and wear walking shoes. Picnic tables are available on a “first-come, first-served” basis.
There is a 15-student minimum for all instructor-led programs. No minimum for Exploring Nature Your Way (self-guided visits) or Naturalist Notebooks.
**Pricing Guide**

**Pink Palace Museum Facilities**

- Museum Exhibits: $5.00
- Planetarium Show: $5.00
- 3D Movies: $5.00
- Lab/Classroom Explorations: $5.00
- Discovery Theater Programs: $5.00

**Combination Rates**

- Any 2 of the above: $9.00
- Any 3 of the above: $12.00
- Museum Suitcase Exhibits for TN Schools: FREE
- Museum Suitcase Exhibits for schools outside TN: $25.00
- Passport Programs: $10.00

**Lichterman Nature Center**

- Habitat Detectives: $7.00
- Bird Walk with Binoculars: $8.00
- In Your Backyard: $6.00
- Come to Your Senses: $6.00
- Naturalist Notebook: $2.00 ea.
- Exploring Nature Your Way (self-guided visit): $4.00
- Nature 2 U: Onsite
  - per child: $6.00
  - per adult chaperone: $4.00
- Nature 2 U: Offsite: $100.00 per class
  - Per program for two same topic, same day outreach programs: $75.00 ea.
  - Per program for three same topic, same day outreach programs: $65.00 ea.
- Nature Lab Series: Owl Pellet Dissection: $8.00
- Nature Lab Series: Water Ecology: $8.00

**Coon Creek Science Center**

- Fossil Fun with Allophylus: $10.00
- Can You Dig It? Intro to Coon Creek: $10.00
- Field Paleontology: $15.00

**Mallory-Neely House**

- $4.00

**Policies**

**Deposit Policy**

- An advance deposit of 20% is required to hold reservations for all groups.
- Deposits must be paid by school check, money order, cashiers check, MasterCard, Visa or cash.
- Deposits may be paid at the facility's box office. The box offices close one hour before the facility closes.
- Deposits may be mailed directly to the facility you will be attending, marked "Attention: Reservations."
- Addresses of each facility of the Pink Palace Family of Museums can be found at the bottom of each facility listing in this guide.

**Cancellation Policy**

- Notification of cancellation must be received one week prior to date of reservation. Reservations cancelled less than one week prior will forfeit their deposit.
- Please Note: Coon Creek Science Center deposits are non-refundable (unless the Museum cancels the program). Programs are held rain or shine. Under rare circumstances, extreme weather conditions may warrant the cancellation of the program.
- Cancellation due to weather conditions are made at the discretion of the Museum. In that event, the Museum will contact the group and reschedule the program. If the program cannot be rescheduled, the deposit will be refunded.
- Groups whose numbers fall below 15 are subject to regular admission prices. Prices per student are based on a minimum of 15 students.
- Additional adults that pay on their own will be charged our regular rates. Additional drivers, etc. in your group. A ratio of 1 chaperone per 10 students is required, and that chaperone receives free admission. Additional chaperones will be charged the chaperone rate. (See chaperone policy.)
- 5. The dates and times you are considering.
- 6. Total number of students you will be bringing.
- 7. Total number of ALL adults including teachers, assistants, parents, drivers, etc. in your group. A ratio of 1 chaperone per 10 students is required, and that chaperone receives free admission. Additional chaperones will be charged the chaperone rate. (See chaperone policy.)
- 8. If a Tennessee School, do you have subsidized/fee waiver students? If yes, how many?

**How to Book a Reservation**

Now that you're ready to book a reservation, please review the deposit and cancellation policies (see below). Be aware of time constraints that could affect your visit and make the reservationist aware of them (i.e., bus schedules, travel time, etc.). Review the deposit and cancellation policies (see below).

**Tips**

1. It is best if you have a few dates in mind before calling.
2. Check your school’s calendar to avoid scheduling conflicts.
3. Be aware of time constraints that could affect your visit and make the reservationist aware of them (i.e., bus schedules, travel time, etc.).
4. Please review the deposit and cancellation policies (see below).
5. Please review the chaperone policy (see below).
6. Check to make sure that the program you are considering is appropriate for your students’ grade level.
7. To book reservations at: Memphis Pink Palace Museum and Mansion, including the CTI 3D Giant Theater and AutoZone Dome at the Sharpe Planetarium, call 901.636.2362

**Lunch Policy:** You are invited to use our front lawn picnic area for brown bag lunches (picnic tables are available on a first-come basis). Please make alternate plans in the event of inclement weather. Seating is available indoors only for groups purchasing food from Restaurant at the Pink Palace, subject to availability. An order form is included in your reservation packet. (See page 21 for details, or call 901.636.2407)

**CTI 3D Giant Theater Snack Policy:** Snacks and drinks are available for pre-order when you make your reservation. Snack and drink orders must be made at least three (3) weeks in advance and must be paid in full when you make your reservation. Your snacks and drinks will be waiting for you at the CTI 3D Giant Theater the day of your visit. An order form is included in your reservation packet.

**Chaperone Policy:** In order to ensure proper supervision, one adult (teacher or chaperone) is required for every ten (10) students. These teachers/chaperones will be admitted free of charge. Additional adults over the one to ten ratio will be charged the chaperone rate. Chaperones and teachers are to remain with the students at all times. Chaperone rates will only be provided to those adults that are included with the school reservation and paid for at check-in with the group payment. Additional adults that pay on their own will be charged our regular rates. Special Education Groups should ask the Reservationist about special accommodations.
FREQUENTLY ASKED QUESTIONS

Q. HOW LONG WILL IT TAKE US TO SEE THE EXHIBITS?
A. We suggest that you allow two hours to tour the Museum exhibits. For specific programs, please see the program listing.

Q. WHEN CAN I MAKE RESERVATIONS?
A. The Pink Palace Reservation Office is open Monday through Friday from 9am - 4pm to schedule school groups. The Lichterman Nature Center Reservation Office is open Tuesday-Saturday, 9am - 4pm. You must speak with a representative and receive a Reservation I.D. number before you have a reservation.

Q. MY GROUP HAS RESERVATIONS AT LICHTERMAN NATURE CENTER. WHAT IF IT RAINS?
A. Lichterman is set up to conduct all instructor-led programming indoors if needed.

Q. HOW FAR IN ADVANCE DO WE HAVE TO MAKE RESERVATIONS?
A. At least two weeks.

Q. WHAT IF I DON’T HAVE ONE ADULT FOR EVERY TEN STUDENTS?
A. It is required that all schools have one adult for every ten students. Your school may be refused admission without the number of required adults.

Q. CAN MY PARENTS CALL TO MAKE THEIR OWN RESERVATIONS?
A. No, they need to be included in the reservation with the students in order to receive their chaperone rate.

Q. CAN WE TAKE PICTURES?
A. You may take pictures without the flash in the Pink Palace Museum exhibits. No photography or recording is allowed during the programs or movies.

Q. IS THERE ANYTHING IN THE MUSEUM THAT WILL SCARE MY STUDENTS?
A.
• The interiors of the CTI 3D Giant Theater and Planetarium are dark.
• Some movies are not appropriate for children under second grade.
• Some children, three years and under, do not respond well to the Planetarium experience.

Q. CAN STUDENTS USE THEIR FAMILY’S MEMBERSHIP?
A. Memberships and vouchers can be used for Self-Guided Visits but Memberships and vouchers may not be used by students or chaperones for free admission to Education Programs.

If you have questions that have not been answered, please call:
Pink Palace Reservation Office at 901.636.2362
Lichterman Nature Center Reservation Office 901.636.2221 or email: nature.reservations@memphistn.gov
Mallory-Neely House 901.523.1484

PINK PALACE MEMBERSHIP

ALL EDUCATORS GET 10% OFF WHEN YOU PURCHASE A MEMBERSHIP.

Members of The Pink Palace Family of Museums receive:
• Unlimited admission for one year to the Pink Palace Museum, Lichterman Nature Center and Historic Properties for two adults and up to 10 related children under 18 years of age (Individual/Dual Level covers 1 Adult and 1 Guest admission)
• CTI 3D Giant Theater and AutoZone® Dome at the Sharpe Planetarium Passes and Discounts (number of passes depends on level purchased)
• Members-only exhibit openings and events (Club Level and above include CTI 3D Giant Theater movie Premieres)
• Free/discounted admission to over 360 ASTC Science &Technology Museums around the world
• Our bi-monthly membership publication – Museum Scope
• Members’ Day Fossil Dig at Coon Creek Science Center
• 10% discount in the Museum Store (excluding audio, video & sale merchandise)
• 10% discount at Restaurant at the Pink Palace

Contact the Membership Office at 901.636.2406 or stop by the Pink Palace Museum or Lichterman Nature Center. Just show us your ID when you purchase your membership to get your discount.
## TENNESSEE

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TENNESSEE, MISSISSIPPI & ARKANSAS SOCIAL STUDIES STANDARDS

TENNESSEE - 2015
SIX CONTENT STRANDS
(C) Culture: Culture encompasses similarities and differences among people including their beliefs, knowledge, changes, values and traditions. Students will explore these elements of society to develop an appreciation and respect for the variety of human culture.
(E) Economics: Globalization of the economy, explosion of population growth, technological changes and international competition compel students to understand both personally and globally production, distribution, and consumption of goods and services. Students will examine and analyze concepts such as basic needs versus wants, using versus saving money, and policy-making versus decision-making.
(G) Geography: Geography enables the students to see, understand and appreciate the web of relationships between people, places and environments. Students use the knowledge, skills, and understanding of concepts within the six essential elements of geography: world in spatial terms, places and regions, physical systems, human systems, environment and society, and the uses of geography.
(H) History: History involves people, events and issues. Students will evaluate evidence to develop comparative and causal analyses, and to interpret primary sources. They will construct sound historical arguments and perspectives on which informed decisions in contemporary life can be based.
(P) Governance, Civics and Politics: Governance establishes structures of power and authority in order to provide order and stability. Civic efficacy requires understanding rights and responsibilities, ethical behavior, and the role of citizens within their community, nation and world.
(TN) Tennessee Connection: Tennessee has a unique story and provides a more intimate view of the past in our present lives. As students connect with their own state's history and geography they will gain a greater perspective of the impact and significance of national history, movements, decisions, and ideas.

MISSISSIPPI - 2011
FIVE CONTENT STRANDS
(DA) Domestic Affairs: The ideals, principles, and practices of citizenship in preparation for participation in a democratic society.
(GA) Global/International Affairs: Global connections, conflicts, geographic and economic interdependence.
(CR/HR) Civil Rights/Human Rights: Exploration of civil rights/human rights issues, both past and present, locally, nationally and globally.
(E) Economics: How people organize for the production, distribution and consumption of goods and services.
(C) Culture: Patterns of human cultural development and movement through place and time.

ARKANSAS – 2015
FOUR STRANDS/13 CONTENT STANDARDS
CIVICS/GOVERNMENT
1. Civic and Political Institutions: Students will analyze the impact of origins, structures, and functions of institutions on society and citizens.
2. Participation and Deliberation: Students will analyze civic rights, roles, and responsibilities.
3. Processes, Rules, and Laws: Students will analyze the sources and functions of laws as well as the process of making and amending laws.
ECONOMICS
4. Economic Decision Making: Students will analyze economic decision making.
5. Exchange and Markets: Students will analyze the exchange of goods and services and the role of producers, consumers, and government in the market place.
7. Global Economy: Students will analyze economic interdependence within a global economy.
GEOGRAPHY
8. Geographic Representations: Students will use geographic representations and skills to become geographically-informed citizens.
9. Human-Environment Interaction: Students will analyze the interaction between humans and the environment.
10. Spatial Patterns and Movement: Students will interpret the spatial characteristics and patterns of human settlement.
11. Global Interconnections: Students will compare global places and regions and the connections between them.
HISTORY
12. Chronology, Change Over Time, and Contextualization: Students will analyze chronology, patterns of continuity and change over time, and contextualization on historical events.
13. Perspective, Historical Evidence, and Causation: Students will analyze ways people gather, view, construct and interpret historical evidence.