Zoo Knoxville Homeschool Academy
Spring Semester 2022

Weekly Classes

Cost: Zoo Annual Pass or Circle of Friends membership is required to attend class. Both the student(s) and whoever brings the student(s) to class must either pay admission or have an annual pass. Visit zooknoxville.org to purchase an annual pass or Circle of Friends membership.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Cost</th>
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<tbody>
<tr>
<td>Pre-K</td>
<td>$64 for semester (one parent must attend with student, no other children allowed)</td>
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<tr>
<td>K-2nd grade</td>
<td>$64 for semester</td>
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<tr>
<td>3-5th and 6th-8th</td>
<td>$84 for semester</td>
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Transfer fee from one weekly class to another: $10. Cancellations: More than 28 days before start of semester: 2/3 refund. 28-15 days: 1/3 refund. 14 days or less: no refund. Prices subject to change without notice.

Registration: Online registration for new families starts Nov 22nd. Advance registration is required. Registration is online at zooknoxville.org! Registration and payment must be received at least one week before students can start attending class. Register by January 18th to be able to attend the full semester. Registration is still open after the semester starts as long as there is space in the class. We are not able to offer prorated pricing.

Schedule: Please note some class times may have changed from fall 2021
Register each child for one class per week. Classes occur weekly from Feb 8th - May 4th except the week of March 15th there will not be classes.

Tuesdays:
- Pre-K: 9:45 am – 10:45 am
- Kindergarten – 2nd grade: 9:45 am – 10:45 am
- 3rd – 5th grade: 12:15 pm – 1:45 pm
- Kindergarten – 2nd grade: 12:15 pm – 1:15 pm
- Kindergarten – 2nd grade: 2:15 pm – 3:15 pm
- 6th – 8th grade: 2:15 pm – 3:45 pm

Wednesdays:
- Pre-K: 9:45 am – 10:45 am
- Kindergarten – 2nd grade: 9:45 am – 10:45 am
- 3rd – 5th grade: 9:45 am – 11:15 am
- 3rd – 5th grade: 12:15 pm – 1:45 pm
- 6th – 8th grade: 12:15 pm – 1:45 pm
- Kindergarten – 2nd grade: 2:15 pm – 3:15 pm
- 3rd – 5th grade: 2:15 pm – 3:45 pm

Zoo Knoxville offers a wide variety of weekly science classes for homeschool students from Kindergarten through 8th grade. These classes are split up into four groups, Pre-K, K-2nd grade, 3rd-5th grade, and 6th-8th grade. During these classes students will cover 4 to 5 units in a variety of sciences. Each unit will have an introductory class and two classes that are more hands on building from the first week and applying concepts to the plants and animals found in Zoo Knoxville. Students attend one class a week and families can choose which class time suits their schedule, depending on availability.
Zoo Knoxville Weekly Homeschool Class Schedule Spring 2022

Feb 8th – 9th  Microbiology Research: Salamander Microbes Part 1
In this class, we will be collaborating with researchers at MTSU to perform experiments and collect data from Zoo Knoxville salamanders. We will be collecting samples from salamanders in order to study the symbiotic relationships among the salamanders, fungi, and microbes as well as their respective roles in a balanced ecosystem. Students of all ages will be able to participate in this real-life research project and work with scientists to learn about what it really is like to be a professional scientist. Students will be using the skills and knowledge they acquired last semester during our microbiology unit to work on this project.

Feb 15th – 16th  Microbiology Research: Salamander Microbes Part 2
In this class, we will be collaborating with researchers at MTSU to perform experiments and collect data from Zoo Knoxville salamanders. We will be collecting samples from salamanders in order to study the symbiotic relationships among the salamanders, fungi, and microbes as well as their respective roles in a balanced ecosystem. Students of all ages will be able to participate in this real-life research project and work with scientists to learn about what it really is like to be a professional scientist. Students will be using the skills and knowledge they acquired last semester during our microbiology unit to work on this project.

Feb 22nd – 23rd  Intro to Scientific Inquiry
In this class, students will learn about the scientific method and how scientists apply it to their day to day work to learn about the world around us by conducting an experiment using the scientific method. Older students will go a step further and learn how to collect, record, and interpret the data produced during their experiments.

Mar 1st – 2nd  Scientific Inquiry: Design an Experiment
In this class, students will put the scientific method into practice while conducting a series of experiments.

Mar 8th – 9th  Geology: Introduction to Geology & Rock I.D.
In this class, students will learn about the different ways in which rocks are formed and how to tell the difference between them. Students will learn about different characteristics that geologists look for when identifying rocks and apply them to a variety of specimens in class.

Mar 15th – 16th  SPRING BREAK: NO CLASSES

Mar 22nd – 23rd  Geology: Volcanoes
In this class, students will learn about the different layers of the Earth and how volcanoes form from these layers. We will look at some common types of volcanoes and try our hand at creating our very own volcanic eruptions!

Mar 29th – 30th  Forensics: Solve the Mystery Part 1
In this class, students will encounter a shocking crime here at Zoo Knoxville and put their sleuthing minds to work to try and solve it, beginning with fingerprint identification. Students will study different characteristics of fingerprints and try their hand at lifting and preserving fingerprints to try and identify the culprit.

Apr 5th – 6th  Forensics: Solve the Mystery Part 2
In this class, students will continue working to solve the mystery by collecting and studying trace evidence such as skin cells, fibers, hair, and powders. Older students will take this one step further as they learn about DNA sequencing.

Apr 12th – 13th  Forensics: Solve the Mystery Part 3
In this class, students will compile evidence collected throughout the last few weeks, collect witness testimonials, and interrogate their suspects. Will they solve the crime?
Apr 19th – 20th  
**Oceanography: Intro to Oceans and Ocean Zones**  
In this class, students will learn about the Earth’s oceans and the different ecosystems that can be found in each layer from the bright and colorful sunlight zone all the way down into the deep, dark trenches.

Apr 26th – 27th  
**Oceanography: Currents & Tides**  
In this class, students will learn about how the tides and currents affect oceanic ecosystems. Students will also select their oceanic animal of choice on which to do a research project to be presented during next class.

May 3rd-4th  
**Oceanography: Ocean Animal Research & Presentation**  
During this class, students will share their oceanic animal presentations with the class.