

Fernbrook Farms Education Center
Winter Upper Level Homeschool
2009

Class Dates and Topics:

Biodiversity: Nature in Balance

January 15

Students will study the diverse habitats at Fernbrook to learn about how they depend on each other. Observations will help us understand how biodiversity both regulates population growth and enables individual species to thrive.

Winter Ecology: Coping with the Cold

January 22

During this lesson we'll explore the seasonal changes taking place in the forest and wetlands. We'll learn about what it takes to survive a New Jersey winter by observing strategies of animals throughout the farm and forest.

Birds in the Winter

January 29

Birds have amazing survival tactics in the winter. We'll discover the physical characteristics and behavioral mechanisms that these birds employ to stay active and healthy all winter long.

Energy Policy: Conflicts between Humans and Nature

February 5

As our natural resources are consumed at exponential rates and global warming becomes a viable threat, countries worldwide are anxious to unite on a common energy policy. We'll explore how the US plans to diversify its energy supply and combat climate change. This class will prepare us for our Alternative Energy experiment next week.

Natural Resources and Alternative Energy

February 12

During this class we'll investigate what can be done locally to reduce, reuse and recycle. We'll study techniques used by conservationists to manage and protect natural resources, then design our own experiments to harvest renewable energy.

The Great Balancing Act

February 19

What do iron, calcium and protein have in common? Learn the chemistry of food and the importance of having vitamins and minerals in your diet. We'll create a tasty snack to learn how well-balanced and nutritious meals support a healthy lifestyle.

Geology Rocks!

February 26

Geologists study the Earth, the materials that it is made of, the structure of those materials and the forces that act upon them. That's exactly what we'll be doing for this class as we trek the farm and forest observing rocks and minerals to discover how New Jersey's landscape was shaped by natural processes. This class will prepare us for next week's Soil Science class.

Soil Science

March 5

Don't treat your soil like dirt. Find out why this is a popular farmer expression as we get dirty learning about soil composition. We'll collect soil samples to learn what minerals make up our soils and how they are affected by physical and chemical weathering processes.

Fernbrook Farm Education Center 2009 Upper Level Winter Homeschool Program

Please Print or Type

Name of Child(children)		Age	Date of Birth	Male	Female
Address		City		State	
Zip Code		Grade entering in the fall			
Mother's Name		Father's Name			
Home Phone#	Work#	Home Phone#	Work#		
Email		Email			
Cell/Pager#		Cell/Pager#			
Employer		Employer			

Registration Fee - \$80 for entire semester

In the past we have allowed families to sign up for single dates. Beginning this semester we are asking for registrations in the entire ten-week semester. If after the first day you are dissatisfied, you may receive an \$70 refund. If you have any questions regarding this please contact us at (609) 298-4028

Schedule of Classes:

- | | |
|---|-------------|
| __ Biodiversity: Nature in Balance | January 15 |
| __ Winter Ecology: Coping with the Cold | January 22 |
| __ Birds in the Winter | January 29 |
| __ Energy Policy: Conflicts between Humans and Nature | February 5 |
| __ Natural Resources and Alternative Energy | February 12 |
| __ The Great Balancing Act | February 19 |
| __ Geology Rocks! | February 26 |
| __ Soil Science | March 5 |

(Please Note: Classes are held rain or shine- dress for the weather!)

Class will be held Thursday from 1:30 – 3:30 PM.

We Heard of Fernbrook Farms Education Center Homeschool Programs through _____

Confidential Medical Information & Required Emergency Information

- Please indicate information about the registrant(s) **regarding medications, allergies, physical disabilities or restrictions that the instructors should know about. Attach pages if necessary.**

- My Child's physician's name and phone# is _____
- My Childs medical insurance carrier is _____ Policy# _____

In case of an emergency, I give my permission to have _____ (child/children) receive first aid and be transported to the nearest hospital by professional, emergency personnel. I understand I will be financially responsible for the cost of such treatment.

- YES
- NO Parent/Guardian _____ Date signed _____

MAKE CHECKS PAYABLE TO: Fernbrook Farm Environmental Education Center

Mail Application To: Fernbrook Farms P.O. BOX 228 BORDENTOWN, N.J. 08505