

Oglebay's Good Zoo

2017 Master Naturalist and Adult Education Schedule

Date	Time	Class and Instructor
Thurs, Jan 19	6 – 7:30 pm	Nature Play: What is and how can I help (elective) Vickie Markey-Tekely
Sat, January 28	9:30 – 10:30 am	The Value of Vultures (elective) Vickie Markey-Tekely
Sat, February 4	1 – 4:30 pm	Names and ID (core) Penny Miller
Sat, February 18	10 am – 12 pm	Introduction to the Good Zoo* Dr Joe Greathouse
Sat, February 18	1 – 3 pm	Bobcats (elective) Dr. Joe Greathouse
Sat, March 4	1 – 4 pm	CSI: Citizen Science Investigator (elective) Penny Miller
Sat, March 11	8:30am – 12:30pm	General Ecology (core) Dr. Zac Loughman
Sat, March 11	1 – 5 pm	Birds (core) Dr. Scott Shalaway
Sat, April 8	8:30am – 12:30pm	Backyard Habitats (core) Jen Haverty and Jenna Brown
Sat, April 8	1 – 4 pm	Reptiles and Amphibians (core) Dr. Joe Greathouse
Sat, April 22	1 – 5 pm	Wildflowers (core) Bill Beatty
Sat, May 6	9 am – 12 pm	Terrestrial Habitats (core) Dr. Zac Loughman
Sat, May 6	1 – 4 pm	Crayfish (elective) Dr. Zac Loughman
Sun, May 21	1 – 5 pm	Trees, Shrubs and Woody Vines (core) Bill Beatty
Sun, June 11	1 – 3 pm	The Honey Bee Colony (elective) Steve Roth and Tri-State Beekeepers
Sat, June 17	9 am – 12 pm	Aquatic Habitats (core) Jen Haverty
Sat, July 15	9 am – 12 pm	Wetland Habitats (core) Jen Haverty
Sat, July 29	1 – 4 pm	Animal Training and Enrichment* Susan Greathouse and Jenna Brown
Sun, August 6	1 – 3 pm	Small Animal Pet Care* Mindi White
Sun, August 13	1 – 5 pm	Monarch Watch Butterfly Project (elective) Penny Miller
Sat, Sept 16	9 am – 2 pm	Project WILD (elective) Vickie Markey-Tekely
Sat, Sept 23	8:30am – 12:30pm	Insects, Spiders and Such (core) Dr. Zac Loughman
Sat, Sept 23	1:30 – 4:30 pm	Hellbenders and Mudpuppies (elective) Dr. Joe Greathouse
Sun, Oct 1	1 – 3 pm	Raptors: WV Birds of Prey (elective) Mindi White
Sat, Oct 21	10 am – 12 pm	Livestock Pet Care* Alanea Fink
Sun, Nov 5	1 – 2:30 pm	River Otters (elective) Mindi White
Sun, Nov 19	1 – 5 pm	Recording and Preserving What You Learn (core) Vickie Markey and Zoo Education Staff
Sat, Dec 2	1 – 3:30 pm	Clever Crows: Corvid Biology and Intelligence Penny Miller
Sun, Dec 17	1 – 5 pm	Nature Interpretation and Teaching (core) Vickie Markey-Tekely

*Class not eligible for Master Naturalist credit

Oglebay's Good Zoo

465 Lodge Drive

Wheeling WV 26003

www.oglebay-resort.com

304-243-4068

2017 Master Naturalist and Adult Education Program Information

IMPORTANT CLASS INFORMATION BELOW:

PLEASE NOTE CHANGES IN FEE STRUCTURE & REFUND POLICY

- **CLASS FEE STRUCTURE CHANGES:** Classes are now **\$10 per class for Good Zoo Members or \$15 per class for non-zoo members**. This rate includes all taxes and fees. Select classes will be offered for FREE! Please check the registration form for details. **We will no longer offer free or discounted re-takes of classes.**
- **In case of bad weather, please call 304-243-4068 2 hours prior to the class. The message will indicate if there is a cancellation or delay.** We will NOT cancel due to rain, but snow/ice may cause delays or cancellations. If bad weather is predicted, classes may be cancelled the evening before the class. Please provide us with your e-mail to receive cancellation notices. The zoo reserves the right to cancel any class at any time for any reason. Classes with low attendance may be cancelled with less than 2 days notice. Registered participants will receive a full refund for any class cancelled by the zoo.
- **Refund Policy *** – If the zoo cancels a class, participants will receive a full refund for the class. The policy below is for participants canceling their registration.

Days prior to the class

Policy

15 days or more 80% refund or fee can be transferred to another class during 2017

6 – 14 days 50% refund; fee is NOT transferable to another class

5 days or less No refunds; program fee is NOT transferable to another class

*All refunds will be given as Oglebay Gift Cards. Gift cards may be used throughout Oglebay & Wheeling Park

- Scholarships are available to those in financial need. Scholarship forms are available on the website at www.oglebay-resort.com/goodzoo .
- All classes will meet at the zoo. Some classes may have additional locations, please see class description for details. Many classes involve outdoor components. **Please dress for the weather!** It is generally a good idea to be prepared with hiking boots or sturdy walking shoes, change of socks, windbreaker, etc. Water bottles are recommended.
- Four classes are not eligible for Master Naturalist credit. These classes are *Introduction to the Good Zoo*, *Small Animal Pet Care*, *Livestock Pet Care*, and *Training & Enrichment*.
- **Current Oglebay Master Naturalists** - Please report all **volunteer time** to vmarkey@oglebay-resort.com , both the DNR and the zoo are greatly in need of a record of ALL the hours put into MN projects, DNR events, citizen science etc. As a reminder, the DNR uses those hours to justify applying for federal funds that support DNR programs. Please don't be reluctant to turn in hours, and please don't under-estimate the true amount of work contributed.

Thanks for your support of the Master Naturalist Program, and for your stewardship of WV's flora and fauna! If you have any questions, please call Vickie Markey at 304-243-4068 or e-mail vmarkey@oglebay-resort.com

2017 MASTER NATURALIST AND ADULT EDUCATION CLASS DESCRIPTIONS

January

Nature Play: What it is and how you can be involved (elective) – Vickie Markey-Tekely

The Good Zoo was recently awarded a grant to develop a family nature play club. This class will share the basics of nature play and facilitating nature play with young children. Participants in this class will earn Master Naturalist volunteer hours and those interested will have the opportunity to become further involved as nature play facilitators at the zoo.

The Value of Vultures (elective) – Vickie Markey-Tekely

Vultures are one of the most maligned of creatures. No matter how you feel about them, you'll leave this class with a deeper appreciation for the role they play in the ecosystem and their amazing adaptations. Discover their place in history and literature, current scientific research and factors causing the decline of many species.

February

Names, Identification and Classification (core class) - Penny Miller. Learning how to identify what you see in the wild is key to becoming a naturalist! Gain a basic understanding of scientific names including their proper form, and pronunciation. Class includes an overview of the concept of classification, and the major taxonomic ranks. Practice techniques to identify plants, animal sounds, tracks, and animal sightings or photographs using taxonomic keys, field guides, internet apps and other tools. Includes a comprehensive FREE set of insect, bird, reptile, amphibian and mammal field guides and audio CD's of bird calls!

Introduction to the Good Zoo – Dr. Joe Greathouse

Explore the evolution of the Good Zoo. Since its inception and opening in 1977, the Good Zoo has been a haven for wildlife. Starting out with only North American species, the Zoo has grown to be a place for families to discovery wildlife from around the world. With a wide variety of conservation programs and educational classes for all ages the Zoo has something for everyone.

Bobcats (elective) – Dr. Joe Greathouse

Learn about the natural history of our only native, extant feline and study techniques that are being utilized to monitor populations of this species. Field portion of the class will inspect habitat use via camera trapping techniques.

March

CSI: Citizen Science Investigator (elective) - Penny Miller

Newly updated! Not sure what projects to do to earn your MN volunteer hour credits? This class presents local, state and national citizen science projects that you can do in your own backyard! Everything from birds, to butterflies, ladybugs, lightning bugs, plant study...there is something for everyone! What you see and document matters to scientists; you CAN make a difference! Projects are fun for adults and many are perfect for grandchildren and school kids.

General Ecology (core class) – Dr. Zac Loughman

This class will introduce the student to the principles of ecology, the branch of biological science that deals with the interrelationships between organisms and their environment. Students will gain a basic understanding of ecosystems including energy and nutrient cycles, types of habitats, physical and biological factors that affect populations, and the concept of biodiversity.

Birds (core) – Dr. Scott Shalaway

Students in this class will learn strategies and techniques of field identification of WV birds. Bird behavior and adaptations will be discussed. Students will also learn the basics of attracting and feeding birds to their yard, and how to participate in citizen-science avian research projects. Choosing binoculars and field guides will be addressed.

April

Backyard Habitats (core) – Jen Haverty and Jenna Brown

Discover the basic requirements of wildlife (food, water, cover) and some ways to provide them. Learn why some animals are desirable in the garden and around the home, while others may be a problem. How to garden for wildlife, including which native plants are best for food and cover in various habitats will be discussed. Learn about building bird houses, bat houses, bird feeders, and more.

Reptiles and Amphibians (core class) – Dr. Joe Greathouse

Learn about the physical characteristics that distinguish an animal as amphibian or reptile, some species that occur locally, some aspects of reproductive behavior, diet, and habitat of WV reptiles and amphibians.

Wildflowers and Weeds (core class) - Bill Beatty

Learn the major groups and important families of flowering plants. Discover basic terms for describing flowering plants as well as how to collect and preserve plant. Identifying flowering plants using field guides and keys and approaches to further study, including helpful references will also be covered. This class will meet at the Good Zoo, then go to the woods surrounding West Liberty University. Participants must provide their own transportation to West Liberty.

May

Terrestrial Habitats (core class) – Dr. Zac Loughman

Learn about the major types of terrestrial habitats in West Virginia, their gross description and distribution in the state, their characteristic flora and fauna, the ecological processes that create and maintain them. We will discuss balds, glades, shale barrens, deciduous forests, evergreen forests, caves and the wildlife that has adapted to each habitat.

Crayfish (elective) – Dr. Zac Loughman

Crayfishes are West Virginia's largest invertebrates, and fulfill multiple ecological roles in Appalachia's streams and wetlands. In this class participants will learn about the natural history and conservation of West Virginia's crayfishes through a lecture as well as an excursion to a local stream.

Trees, Shrubs and Vines (core class) – Bill Beatty

In this class, students will learn some of the more common woody plants, what makes woody plants different, and clear up the confusion over deciduous, evergreen, and coniferous trees. Also discussed is how to collect and preserve woody plants, the importance of woody plants to humans and wildlife, and how to approach further study, including helpful references.

June

The Honey Bee Colony (elective) – Steve Roth and the Tri-State Beekeepers

Discovery the functions and elements of the honeybee colony that allow them to reproduce, process nectar and pollen for their use, and create stores to allow them to survive the winter. Explore the role that the bee plays in pollination. This class will include an open hive demonstration.

Aquatic Habitats (core class) – Jen Haverty

Learn the characteristics of water that are important to aquatic organisms, the habitats created by the still waters of ponds and lakes and the moving waters of streams, and some of the animals and plants that inhabit WV waters.

July

Wetland Habitats (core) – Jen Haverty

Explore the definitions and types of wetlands that are found in WV and their values and needed protection. Students will gain a basic understanding of the general types of wetlands found in West Virginia, the value of wetlands to humans and wildlife.

Animal Training and Enrichment – Susan Greathouse and Jenna Brown

Training and enrichment are important parts of the zoo's animal care program. Learn how animal training helps the keepers care for the species at the zoo. Construct animal enrichment items and watch as several animals interact with your creations.

August

Small Animal Pet Care - Mindi White

Have you ever considered having a small animal for a pet? Do you have one and want to learn more about its proper care? Join Mindi White, the zoo's curator of animals, to learn about responsible ownership and care of small animal pets from ferrets and chinchillas to reptiles and invertebrates. Topic for the program include: how to select the right pet for you, proper housing, heating and lighting, and MORE

MonarchWatch Butterfly Project (elective) – Penny Miller

Students will explore monarch butterfly natural history and biology, including their spectacular fall migration to Mexico. Learn the latest research on the causes and solutions to the plummeting monarch population and the U.S. government's plans to protect them. Class will learn about selecting and growing various milkweed plants, and collecting and germinating the seeds. Gain the skills to collect and rear monarch caterpillars, tag adults and keep records for Project Monarch Watch, which can count towards Master Naturalist volunteer hours. Weather permitting, a field trip to a local farm to search for monarchs will be included. Monarch tags are included in the class fee.

September

Project WILD (elective) – Vickie Markey-Tekely

Hellbenders and Mudpuppies (elective) – Dr. Joe Greathouse

Learn about the natural history and conservation efforts associated with the largest salamander in North America, the hellbender and discover mudpuppies as well! Dr. Greathouse will share his research and experiences with this amazing creature.

Insects, Spiders and Such (core) – Dr. Zac Loughman

Student will gain a basic understanding of the major orders of WV insects and spiders; how to observe, collect, preserve, and identify invertebrates; the diversity of adaptations, life histories, and ecological roles of invertebrates. Learn about citizen science projects with ladybugs, fireflies, bees and other projects you can use to earn your Master Naturalist volunteer hours!

October

Raptors: WV Birds of Prey (elective) – Mindi White

Explore many species of birds of prey. Learn why the zoo focuses on treating wild, injured hawks, owls, eagles, falcons and vultures brought in by the general public, as opposed to all injured birds. Class will cover the laws regulating the rehabilitation of raptors, the medical challenges of bird injuries, and newly emerging diseases affecting raptors. Students will see live raptors in the classroom and will have opportunities to get nice close up photos, so bring your camera.

Livestock Pet Care – Alanea Fink

Livestock – cattle, horses, goats, sheep, donkeys- require specialized care. Join Alanea Fink from the zoo's animal care staff to explore the basics of livestock husbandry. Whether you own livestock, or are just curious about their care, you'll be sure to discover interesting new facts about feeding, housing, training, grooming and medical care.

November

River Otters (elective) – Mindi White

Good Zoo animal curator, Mindi White, will teach about the natural history and status of West Virginia's river otters, including threats and reintroduction successes. Mindi will also talk about zoo husbandry and training of Oglebay's river otters. Participants will be eligible for a discount on a River Otter encounter that they may schedule at a later date.

Recording and Preserving What You Learn (Core) – Vickie Markey-Tekely and zoo education staff

This core class encourages students to collect data in the form of notes, photos, and specimens, and insure that this information is permanently preserved and made available for use by others. Students will gain a basic understanding of the huge value of his/her observations, collections, and data; the importance of accurate, detailed, complete notes and specimen labels, and high quality specimens; the fact that his sketches are for information, not art; the systematic description of habitats; and methods of sharing/preserving what they learn through publications, databases, archived Internet discussions, public collections, etc.

December

Clever Crows: Corvid Biology and Intelligence (elective) – Penny Miller

Explore emerging research that indicates Corvids (crows and ravens) are even smarter than parrots, or as one researcher said: "Neurally, mentally, cognitively, they are equivalent to a flying monkey!" Watch video clips of corvids in the lab and in the wild as they solve puzzles, make and use tools and toys, demonstrate abstract reasoning and outsmart researchers. Why are crows and ravens succeeding or even expanding their range around humans as other species decline? Is their intelligence the evolutionary advantage? Or is it something else? Come and see why corvids are changing the game in cognitive research in animals.

Nature Interpretation and Teaching (core) – Vickie Markey-Tekely

Explore the definitions and types of wetlands that are found in WV and their values and needed protection. Students will gain a basic understanding of the general types of wetlands found in West Virginia, the value of wetlands to humans and wildlife, and look for wetlands plants and animals.

Oglebay's Good Zoo

Registration Form - 2017 Master Naturalist and Adult Education Program

Check Classes Attending	Date	Time	Class	Fee Member / nonmember
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The WV Master Naturalist State Meeting (conference) will be held June 9 – 11, 2017 at Chief Logan State Park.
For information on the state meeting, go to www.mnofwv.org

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Oglebay's Good Zoo

Registration Form - 2017 Master Naturalist and Adult Education Program (page 2)

Name I am a first time Master Naturalist Program attendee
Address
City State Zip
Phone E-mail

Payment Information Please make Checks payable to **Good Zoo** (Tax and fees are included in listed rates)

Credit card payments may be taken by calling 304-243-4100 or visiting the zoo office during normal operating hours.
Registration information will not be taken over the phone, only payments.
Registrations may be faxed to 304-243-4110 or e-mailed to goodzoo@oglebay-resort.com

Number of classes x \$15 (non-zoo member) \$
Number of classes X \$10 (Good Zoo Member) \$ Good Zoo Membership number
Total Due \$

West Virginia Master Naturalist - Liability Release

(initial) I understand that in consideration of being accepted as a participant in the West Virginia Master Naturalist Program ("Program"), I hereby release, discharge and agree to hold harmless the Program and its sponsoring agencies and organizations (including the Wheeling Park Commission and Oglebay's Good Zoo), their agents, employees, officers and successors, from and against all claims of whatever kind, known or unknown, direct or indirect, for personal injury, death or property damage that I may incur from participation in the West Virginia Master Naturalist Program.

(initial) I understand and agree that in consideration of being accepted as a participant in the West Virginia Master Naturalist Program ("Program"), I will defend and hold harmless the Program and its sponsoring agencies (including the Wheeling Park Commission and Oglebay's Good Zoo) and organizations, their agents, employees, officers and successors, from and against all claims by third parties, of whatever kind, known or unknown, direct or indirect, for personal injury, death or property damage that may arise from any of my intentional or negligent acts or failure to act.

(initial) I understand and agree that the Wheeling Park Commission and Oglebay's Good Zoo may take photographs, whether still, single, multiple or moving, of me and/or my property, or in which I may be included in whole or in part, or composite, or distorted in character or form, and I hereby authorize the Wheeling Park Commission, its successors, assigns and transferees to use and publish the same (including use and publication with my name, no name or fictitious name, use in the form taken or with intentional or unintentional alterations, and used for the purpose of education, publicity, illustration, commercial art and in advertising of the Park or any of its products or services).

Signature

Date

Send registration and payment to:

Oglebay Good Zoo Master Naturalist Program
465 Lodge Drive
Wheeling, WV 26003
Fax: 304-243-4110
goodzoo@oglebay-resort.com