

Oglebay's Good Zoo

465 Lodge Drive
 Wheeling WV 26003
 304-243-4068
 www.oglebay-resort.com

Master Naturalist Schedule: January -March 2012

Date	Time	Class and Instructor	Location
Saturday, January 14	9 AM - noon	<u>Terrestrial Habitats</u> Dr. Zac Loughman	Zoo Multi-purpose Room
Saturday, January 14	1 PM – 5 PM	<u>General Ecology</u> Dr. Zac Loughman	Zoo Multi-purpose Room
Saturday, January 28	9 AM – Noon	<u>Names and Identification</u> - Penny Miller	Zoo Multi-Purpose Room
Saturday, January 28	1 PM – 5 PM	<u>Birds</u> – Dr. Scott Shalaway	Zoo Multi-Purpose Room
Saturday, February 11	9 AM – 11 AM	<u>Citizen Science Investigator (elective)</u> Penny Miller	Zoo Multi-Purpose Room
Saturday February 11	1 PM – 5 PM	<u>Nature Interpretation and Teaching-</u> Vickie Markey-Tekely	Zoo Multi Purpose Room
Sunday February 19	1 PM – 5 PM	<u>Mammals</u> Joe Greathouse	Zoo Multi Purpose Room
Sunday, March 4	1 PM – 5 PM	<u>Reptiles and Amphibians</u> Joe Greathouse	Zoo Multi Purpose Room
Sunday, March 11	1 PM – 5 PM	<u>FrogWatch USA (elective)</u> Joe Greathouse and Penny Miller	Zoo Multi Purpose Room
Tuesday, May 1	7 pm (tentative)	<u>Moths of North America (elective)</u> Seabrooke Leckie	Zoo Multi Purpose Room

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Notes for upcoming classes:

- **In case of bad weather, please call 304-243-4068 after 8 am on the day of the class. The message will indicate if there is a cancellation or delay.**
- The *Moths of North America* elective is scheduled for Tuesday, May 1. It will tentatively begin at 7 pm. There is no charge for this elective, but you **MUST** pre-register for the class. Class size is limited.
- Good Zoo Members can take 10% off the registration fees! (For more information on becoming a zoo member, contact the zoo office at 304-243-4100 or log onto our website at www.oglebay-resort.com/goodzoo).
- Master Naturalists can **re-take** any of the classes offered that they have already attended free of charge! Just fill out the registration form, and return it to the zoo so we know you are coming! (Based on availability – if the class is filled, we will notify you.)
- Scholarships are available to those in financial need. Scholarship forms are available on the website at www.oglebay-resort.com/goodzoo .
- Please dress for the weather, as most classes will involve time outdoors in the field.
- Current Master Naturalists - If you have not handed in your **volunteer hours** for 2011, please do so, both the DNR and the zoo are greatly in need of a record of ALL the hours you put in on MN projects, DNR events, 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 your hours, and please don't under-estimate the true amount of work you contribute. If you need additional volunteer hour forms, please call us at the numbers below.

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 Penny Miller at 304-243-4027, or Vickie Markey at 304-243-4068.

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2012 Master Naturalist Program Instructor Biographies and Classes taught

Joe Greathouse (Mammals; Reptiles and Amphibians; FrogWatch Project)

Joe graduated with a B.A. in Biology from WV University and an M.S. in Wildlife and Fisheries Resources Management from WVU. Joe is currently pursuing a Ph.D. in Animal and Nutritional Sciences at WVU with research focusing on the conservation of the Eastern hellbender salamander in WV. He has worked at The Good Zoo for 13 years. He is currently curator of animals, and manages the animal collection and staff. Joe has interests in herpetology, mammalogy, ornithology, habitat management, conservation biology, and restoration ecology. Joe and the animal care staff at the Good Zoo were the first to successfully hatch and raise hellbenders at any zoo or aquarium in the world, in 2007. Joe is currently conducting WV DNR grant-funded hellbender research in the waterways of WV to determine what environmental factors influence this species' distribution and to determine if the reintroduction of captive-reared salamanders is a viable conservation technique for increasing populations of this species in the wild. Joe organized and hosted a national conference on hellbender research in 2007. Joe has taught introductory biology and zoo biology courses at WVU, and he has also studied wildlife in Kenya and Costa Rica.

Seabrooke Leckie (Moths of North America)

Seabrooke Leckie is a freelance biologist and writer living in rural eastern Ontario. She holds a B.Sc.H. in Zoology and has worked on field research contracts in many parts of the continent, from California to Québec, British Columbia to Ohio, as well as her home province of Ontario. She discovered moths quite by accident one summer while away on contract, and they've since become her number one passion. Birds are her second interest; she is a federally-licensed bird bander and volunteers each summer with a local bird research organization. She's the co-author of the new *Peterson Field Guide to Moths of Northeastern North America*, and has been involved with other publications such as the Ontario Breeding Bird Atlas and the newsletter of the Ontario Field Ornithologists. Most afternoons you can find her outdoors, peering closely at flora and fauna, camera in hand; nights, of course, are spent at her moth sheet.

Dr. Zachary Loughman (Wetlands Habitats; Terrestrial Habitats; Aquatic Habitats; Insects; and other electives) Zac

received a Bachelor of Science degree in biology from West Liberty State College, a Master's degree in biology from Marshall University, and a Ph. D. in ecology and evolution from Indiana State University. Zac's main interest is astacology; the study of freshwater crayfishes. He has added crayfish state records to multiple state lists and works on projects describing crayfish species, while still working on projects elucidating reptile and amphibian life histories in Appalachia. Zac has worked for Oglebay Institute and West Liberty State College as a Natural History Research Specialist. Zac is currently an assistant professor of Biology at West Liberty University, where he instructs environmental and biological classes for the college

Penny Miller (Names and ID; CSI-Citizen Science Investigator; Box Turtles in Trouble; MonarchWatch, other electives)

Penny began her zoo career at the Pittsburgh Zoo in 1971. She started at Oglebay while the Good Zoo was under construction in 1974. As general curator, she managed the animal collection and keeper staff, and the education department for 15 years. She became director of the Good Zoo in 1994. She has a Bachelor of Arts degree from Wheeling Jesuit University with a concentration in biology and professional writing, and has completed the coursework on a master's degree at Wheeling Jesuit University. She has authored numerous articles in magazines and journals. Penny lives on a 140-acre organic farm, where she has a special interest in Lepidoptera, native bees, pollinators in general, snapping turtles and box turtles. She has led zoo trips to Kenya, South Africa, Zimbabwe, Zambia, and Botswana. She is vice chair of the WVDNR's Master Naturalist State Advisory Committee and manages the zoo's MonarchWatch butterfly tagging project.

Dr. Scott Shalaway

Dr. Scott Shalaway is one of the country's leading experts on backyard wildlife. His education includes a BS in entomology (University of Delaware), an MS in biology (Northern Arizona University), and a Ph.D. in wildlife ecology (Michigan State University). He has taught various biology and wildlife classes at Oklahoma State University, ornithology at the University of Oklahoma Biological Station, and now teaches a one-week summer class -- Ornithology for Teachers -- at Ohio State University's Stone Lab. Since 1986, he has written a weekly syndicated newspaper column on nature and hosts weekly radio shows in Wheeling and Pittsburgh focusing on nature.

Vickie Markey-Tekely (Nature Interpretation and Teaching; Talking Turkey, Alien Invaders, and other electives)

Vickie has been involved with the Oglebay Zoo for over 30 years, currently as curator of education. In this position, she develops, plans and teaches a wide variety of programs, from pre-schoolers to K-12; young adults through seniors in the Elderhostel program. Vickie also coordinates and instructs the zoo's 100 adult and teen volunteers. Vickie has a Bachelor of Science degree in Biology from West Liberty State College and a Master of Arts in Science and Math Education from Wheeling Jesuit University. She is also a member and state representative for the National Association for Interpretation.

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Names, Identification and Classification (core class) – Penny Miller, Instructor

The student will gain a basic understanding of scientific names including their proper form, use, and pronunciation. The class includes an overview of the concept of classification, and the major taxonomic ranks. Students will practice techniques to identify plants and live animals using taxonomic keys, field guides, photographs and other tools. This class is worth 1 core class credit and 2 elective hours credit.

Birds (core class) – Dr. Scott Shalaway, Instructor

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.

Mammals (core class) – Joe Greathouse, Instructor

Students will gain a basic understanding of the classification, status, and behavior of West Virginia's mammals. Using skulls, study skins, live mammals and field guides, students will gain an overview of the diversity and adaptations of mammals. The current status of coyotes and mountain lions will be discussed, as well as the methods scientists use to study mammals.

Terrestrial Habitats (core class) – Dr. Zac Loughman, Instructor

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.

General Ecology (core class) – Dr. Zac Loughman, Instructor

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.

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

Participants will learn what it means to be a nature interpreter and acquire a broad understanding of the goals, techniques, and attributes required to provide an effective interpretive program. The students will gain a basic understanding of what nature interpretation is and how it differs from formal environmental education and classical nature study; an appreciation that our natural environment and our lives and manmade environments are intertwined; the difference between the interpreter as leader and as provocateur; some basic techniques for interpreting the natural world; strategies for successfully leading a guided walk.

CSI: Citizen Science Investigator (elective) - Penny Miller, Instructor

CSI is a great class for anyone interested in being involved with citizen science projects and it is a must for anyone struggling to find ways to get volunteer hours. This class will cover a variety of citizen science projects and give you information to help you get started. Those attending the CSI class will receive a CD containing local frog calls!

Reptiles and Amphibians (core class) – Joe Greathouse, Instructor

Joe will discuss 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, available resources for further study, including helpful references. Learn about Joe's groundbreaking research on WV hellbenders, and emerging diseases that threaten amphibians in the US and worldwide.

FrogWatch USA (elective) – Joe Greathouse and Penny Miller, Instructors

Learn why frogs are in BIG trouble around the world, and how you can help! *FrogWatch USA* is citizen science program under the direction of the Association of Zoos and Aquariums. Just by listening for frog and toad calls in your neighborhood, and jotting down what you hear, you can place a tremendous role in frog research AND earn volunteer hours! The frogs need your help! FREE frog call CD to each class participant!

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MASTER NATURALIST REGISTRATION FORM

January - March 2012

Name I am a first time Master Naturalist Program attendee

Address

City State Zip

Phone E-mail

Please check all classes attending.

Saturday, January 14

Terrestrial Habitats – core (3 hours, 9 am - 12 pm) **\$18.00**

General Ecology – core (4 hours, 1 - 5 pm) **\$24.00**

Saturday, January 28

Names and Identification – core (3 hours, 9 am - 12 pm) **\$18.00**

Birds – core (4 hours, 1 - 5 pm) **\$24.00**

Saturday, February 11

Citizen Science Investigator– elective (2 hours, 9 – 11 am) **\$12.00**

Nature Interpretation & Teaching – core (4 hours, 1 - 5 pm) **\$24.00**

Sunday, February 19

Mammals – core (4 hours, 1 – 5 pm) **\$24.00**

Sunday, March 4

Reptiles and Amphibians – core (4 hours, 1 – 5 pm) **\$24.00**

Sunday, March 11

FrogWatch USA – elective (4 hours, 1 – 5 pm) **\$24.00**

Tuesday, May 1

Moths of North America – elective (7 pm) **\$ 0**

Good Zoo Membership number (if applicable) (10 % discount off registration fees for members)

Payment Information

Subtotal \$

- Member Discount \$ (Good Zoo members take 10% off)

+ Late registration fee \$ (add \$5 per class when registering less than 6 days prior to the class)

Total Due \$

Check payable to *Good Zoo* Visa Discover MC Amex

Credit Card Number Expiration CVV2

Signature _____

Send registration and payment to: Oglebay Good Zoo, Master Naturalist Program, 465 Lodge Drive, Wheeling, WV 26003

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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).

Name (Please Print)

Signature

Date