

SPRING/SUMMER 2014

NEW ENGLAND
WILD
FLOWER
SOCIETY



learn+grow

MARCH 2014 • VOLUME 7, NUMBER 1

THE COURSE CATALOG OF NEW ENGLAND WILD FLOWER SOCIETY

The mission of
New England Wild Flower Society
is to conserve and promote
the region's native plants to
ensure healthy, biologically
diverse landscapes.

Register Online,
by Phone, or by Fax
See page 36 for details

regional index

GARDEN IN THE WOODS

Date	Course Title	Page
3/5	Maintain Motors and Tools	5
3/6	Botanical Illustration	17
3/13	Rare and Endangered Plants	4
3/16	Learn Lichens	17
3/25	Know Wild Edibles	6
3/26	Landscape for Pollinators	6
4/3	Certificate Orientation	3
4/5	Pruning Shrubs	7
4/6	Tick-Borne Disease	2
4/17	Tools for Plant ID	18
4/24	Plants Materials: Early	7
4/29	Wildflowers of NE	18
5/3	Shapes and Sizes	8
5/7	Monocots	19
5/22	Small Plants, Big Bang!	6
5/28	Native Shrubs	19
6/1	Field ID Tech	20
6/3	Container Gardening	8
6/10	Lewis and Clark	4
6/18	Plant Communities	20
6/23	Wetland Shrubs	34
7/8	Wetland ID & Delineation	34
7/10	Gnarly Natives	9
7/17	Plant Families	21
7/17	Wetland Plant ID	34
7/18	Survey of Grasses	22
7/21	Landscape for Life	10
7/23	Plant Materials: Late	10
8/2	Discover Ferns	23
8/5	Rose Family	23
8/7	Botanic Inventory	24
8/14	Design-less Gardening	11
8/21	Conifers	25

9/9	Control Invasives	25
9/16	Woody Plant Materials	12

CHILDREN & FAMILIES

All Programs	35
--------------	----

EASTERN MASSACHUSETTS

Date	Course Title	Page
4/12	Tree ID	26
4/28	Acton Ephemerals	28
5/4	Estabrook Woods Legacy	28
5/10	Edible Wild Plants	28
5/20	Macomber Woods	29
6/8	Mt Wachusett Hike	29
6/14	Ferns of Blue Hills	30
6/15	Fungi in the Field	26
6/21	Rain Gardens	13
6/22	Myles Standish SF Lichens	31
7/20	Open Farm at Bug Hill	15
7/20	Fungi in the Field	26
8/6	Vaughn Hill Flowers	33
8/19	Sibley Farm	15
8/27	Manomet	16
9/18	Plant Form and Function	25

WESTERN/CENTRAL MASSACHUSETTS

Date	Course Title	Page
3/19	Deer-Resistant Landscaping	5
4/13	Old Growth at Mohawk SF	27
4/26	Tree ID	26
4/27	Berkshires Flora	27
5/10	Tree Care Basics	13

5/15	Tree ID	26
7/12	Natural Pest Control	9
8/21	Seed Biology & Adaptations	24
8/23	Intro to Seed-Saving	11

CONNECTICUT/ NEW YORK/ RHODE ISLAND

Date	Course Title	Page
5/18	Sleeping Giant State Park	29
6/25	Tree Workshop	21
7/26	Investigate Your Yard	22

MAINE/ NEW HAMPSHIRE/ VERMONT

Date	Course Title	Page
4/19	Northern Gardening Symposium	2
6/14	Wildflowers in Maine	30
6/28	Eshqua & Crescenti Bogs	31
7/10	Ants in Your Plants	32
7/12	Ferns of Canaan	32
7/19	Historic Gardens	14
7/27	Tumbledown Mt.	33

This publication was made possible through the generosity of Jackie and Tom Stone, and members and friends of New England Wild Flower Society.

ON THE COVER
Canada wild ginger
(*Asarum canadense*)
Photo: Dan Jaffe



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FROM THE EDUCATION DEPARTMENT

Spring is almost here. Plant life is stirring, the air and soil are warming up, and no doubt your brain is also rousing from its long winter's nap. Now is the time to join our vibrant learning community. Whether you are gathering ideas for your own garden or eager to get out into the field and learn about wild plants, New England Wild Flower Society offers learning experiences for everyone. This season, the Society is offering more than seventy programs for gardeners, botanists, certificate students, and children and families in all six New England states.

Highlights include field trips to gorgeous locations, a week-long intensive training in Landscapes for Life, and the ever-popular Northern Gardening Symposium, featuring leaders in horticulture from New York to Canada. For those who want to venture further afield, we are also offering the opportunity to join our once-in-a-lifetime trip to explore the flora of Madagascar.

With the Spring-Summer 2014 issue of *Learn + Grow* we also welcome our new Director of Public Programs, Jessica Pederson. Jessica brings an extensive background in public programming, horticulture, exhibit interpretation, and garden management. Her skills will be invaluable to growing the educational initiatives of the Society. Senior Research Ecologist Elizabeth Farnsworth will continue working with the Education Department, spearheading the Society's first suite of on-line courses.

It's an exciting time for us, and for you! Explore and enjoy!



Jessica Pederson, Director of Public Programs; Lana Reed, Registrar; Elizabeth Farnsworth, Ph.D., Senior Research Ecologist

TABLE OF CONTENTS

Symposia	2
Certificate Program	3
Lecture Series	4
Horticulture & Gardening	5
Horticulture & Design Trips	13
Botany & Conservation	17
Field Trips	26
Wetlands	34
Children & Families	35
Registration Form	36
Membership Info	37

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symposia

Northern Gardening Symposium

Three dynamic speakers will explore natural gardening practices, landscaping with native plants, and the use of native plants to promote healthy living for generations to come. Miriam Goldberger, founder and co-owner of Wildflower Farm, a seed production company in Ontario, Canada, will speak on “Taming Wild flowers from Seed to Vase: A Celebration, Guide, and Users’ Manual.” Dan Jaffe, renowned Propagator and Stock Bed Grower for New England Wild Flower Society, will discuss: “Design-less Gardening: A Naturalistic Approach.” Uli Lorimer, Curator of the Native Flora Garden at Brooklyn Botanical Garden, will explain how Brooklyn Botanic Garden has expanded its native plant collection to serve important conservation and educational goals.

Saturday, April 19, 9 a.m.-3 p.m.

Vermont Technical College, Randolph Center, VT

Course Code: SYM1002

Fee: \$47 (Member) / \$53 (Nonmember)

Member fee applies to members of any of the cosponsoring organizations. No refunds for cancellations after April 6.

Cosponsored by the Fells, Hardy Plant Club, Friends of the Hort Farm, and VT Master Gardeners

Tick-Borne Disease: Awareness, Prevention, and Treatment

Lyme and other tick-borne diseases are increasing each year and expanding northward. This panel will discuss the latest research on the factors that affect the distribution of ticks and diseases; tick life cycles and disease hosts; and infection-prevention methods. The panel will also cover what to do if bitten and explain the scope of the public health emergency. Attendees will come away empowered with preventative strategies and knowledge of treatment options. Refreshments will be provided.

Panelists:

Alan Geise, Professor of Biology at Lyndon State College in Vermont and Researcher into the rise of tick populations and disease.

Jeanne Hubbuch, M.D., Family Practice Physician from Newton, MA, with long experience with acute and chronic Lyme and other tick infections.

Dori Smith, M.Ed., Owner of Gardens for Life in Acton, MA, Writer, and Educator in recovery from Lyme disease.

Sunday, April 6, 1-3:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR6500

Fee: \$20 (Member) / \$25 (Nonmember)

Co-sponsor: Ecological Landscaping Alliance

certificate program

Native Plant Studies

Whether you are interested in taking classes for fun, adding breadth and depth to your existing knowledge and skills, or advancing your career, New England Wild Flower Society's self-paced Certificate Program in Native Plant Studies offers everyone a unique opportunity to learn about plants. Our dedicated instructors provide a comprehensive education in the identification, cultivation, ecology, and conservation of native New England plants.

Students enrolled in the Certificate program gain a greater appreciation and understanding of native plant habitats, common and rare plant species, conservation issues, and uses of native plants in horticulture and design. In addition, students actively participate in ongoing public and private efforts to preserve and restore native New England flora. We offer four opportunities for concentrated study:

- Certificate in Field Botany
- Advanced Certificate in Field Botany
- Certificate in Native Plant Horticulture and Design
- Advanced Certificate in Native Plant Horticulture and Design.

Each certificate requires completion of core courses, elective courses, field trips, and community service.

See www.newenglandwild.org/learn/certificate for details.

CERTIFICATE ORIENTATION

Join Senior Research Ecologist Elizabeth Farnsworth and Certificate program graduates to learn more about the structure and content of the Society's Certificate in Native Plant Studies Program and how it can enhance your knowledge of plants. This illustrated talk includes some of the fascinating stories that native plants have to tell, along with a look at the Society's efforts to conserve the region's native flora. Everyone is welcome at this free presentation. Preregistration is requested, but not required.

Thursday, April 3, 7-8:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: CER8000

Instructor: Elizabeth Farnsworth, Senior Research Ecologist, New England Wild Flower Society

Fee: Free program

ENROLL NOW!

Complete the certificate registration form on page 36 of this catalog or online at www.newenglandwild.org/learn/certificate.

Direct questions to Registrar at 508-877-7630, ext. 3303, or lreed@newenglandwild.org. There is a one-time certificate enrollment fee of \$30.

Classes in this catalog are open to all adults, regardless of certificate enrollment. Join the Society to receive discounts. (See inside back cover.)

CERTIFICATE CREDIT DESIGNATIONS

FB=Field Botany

Adv. FB=Advanced Field Botany

HD=Native Plant Horticulture & Design

Adv. HD=Advanced Native Plant Horticulture & Design

Some courses satisfy more than one requirement, for example Elective-FB; Core-Adv. FB can be used as an elective for a certificate in Field Botany or as a Core requirement for a certificate in Advanced Field Botany.

LECTURE SERIES

RARE AND ENDANGERED PLANTS OF NEW ENGLAND

Take a look at the rare and endangered plants of the region with the Society's Conservation Director, Bill Brumback. Bill will discuss plants of conservation concern in New England as identified in the recent update of *Flora Conservanda* 2012. You will learn about their habitats, the threats to them, and efforts to recover them, including seed-banking and restoration projects. Bill will talk about how Robbins' cinquefoil (*Potentilla robbinsiana*) was removed from the federal list of endangered species, and how climate change is predicted to affect the rarest plants.

Thursday, March 13, 7-8:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: LEC5007

Instructor: Bill Brumback, Conservation Director, New England Wild Flower Society

Fee: \$5 (Member) / \$10 (Nonmember)

Limit: 75

Credit: Elective-all certificates

BOTANICAL DISCOVERIES OF LEWIS AND CLARK

Meriwether Lewis and William Clark were visionary pioneers; their epic journey in the early 1800s provided colonists with their first glimpse into the wonders of a vast continent, and some of their most significant discoveries were new plant species. Join Nancy M. Eyster-Smith on a virtual expedition to see some of the botanical highlights of the Lewis and Clark expedition, including plants newly described for science and plants named after the explorers. A few plants written about in the journals of 1804-1806 on June 10th will be highlighted. Copies of the book, *Jefferson's Botanists: Lewis and Clark Discover the Plants of the West*, will be offered for sale for \$5.

Tuesday, June 10, 12-1:30 p.m.

Brown bag lunch at noon, program at 12:30pm

Garden in the Woods, Framingham, MA

Course Code: LEC1019

Instructor: Nancy Eyster-Smith, Ph.D., Botanist

Free lecture: Pre-registration required

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SMALL MOTOR AND GARDEN TOOL MAINTENANCE

Have you ever walked into your shed and felt overwhelmed by all the tools in need of maintenance? Learn the basic procedures any homeowner should know to reclaim old tools, extend the life of reliable tools, and retain the value of new ones. Topics include oil changes, greasing, air-filter cleaning and replacement, fuel facts, storage, and spring prep as well as troubleshooting tips and



techniques for maintaining your hand tools. This class will teach you how to sharpen blades, remove rust, replace handles, and keep all your gardening equipment ready for use when you need it. If you took Nate's great workshop in fall 2013 (or even if you didn't), this new workshop will prepare you well for a busy spring season!

Wednesday, March 5, 9 a.m.-12 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR3351

Instructor: Nate McCullin, Senior Horticulturalist, New England Wild Flower Society

Fee: \$26 (Member) / \$32 (Nonmember)

Limit: 16

Credit: Elective-HD/Adv. HD

DEER-RESISTANT LANDSCAPING

Take your landscape off the menu at the deer café. There is no such thing as a deer-proof plant, but some plants come close. In this seminar, landscape designer Kathy Connolly presents ideas that will help your landscape become a "deer survivor." Learn which products work and how to select the best plants for deer resistance, with special emphasis on New England natives. The class will also review the relative value of fence types and touch on strategies for managing other uninvited critters.

Wednesday, March 19, 6-8 p.m.

Nasami Farm, Whately, MA

Course Code: HOR6502

Instructor: Kathy Connolly, Landscape Designer, Advanced Master Gardener, Principal, Speaking of Landscapes

Fee: \$24 (Member) / \$29 (Nonmember)

Limit: 20

Credit: Elective-HD/Adv. HD

Cosponsor: Ecological Landscaping Alliance

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SMALL PLANTS, BIG BANG!

Spring is an ideal time to transplant woody plants, and this class will introduce you to new and old favorites that make the most of small spaces. In the excitement of creating a beautiful outdoor living space, many gardeners overplant (in number and size). Learn about the long-term consequences of overplanting and how to avoid them by introducing the smaller gems of the plant world into your garden. Design your next garden bed with some unique native groundcovers, dwarf conifers, and more.

Saturday, March 22, 10 a.m.-12 p.m.

Garden in The Woods, Framingham, MA

Course Code: HOR4024

Instructor: Jen Kettell, Horticulturist, Arnold Arboretum of Harvard University

Fee: \$26 (Member) / \$32 (Nonmember)

Limit: 16

Credit: Elective-HD/Adv.HD

Cosponsor: MA Audubon Drumlin Farm



KNOWING WILD EDIBLES: FINDING, GROWING, EATING

From the woods to the meadows to gardens, wild edibles are all around. Join Dan Jaffe for a comprehensive look at the wild plants that can fill your belly. With a focus on tasty species, this course will cover finding edibles in the wild as well as growing them in your own garden. Questions of food sustainability and conservation of rare edible species will also be addressed.

Tuesday, March 25, 10 a.m.-2 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR2091

Instructor: Dan Jaffe, Propagator and Stock Bed Grower, New England Wild Flower Society

Fee: \$40 (Member) / \$48 (Nonmember)

Limit: 16 **Credit:** Elective-HD/Adv HD

LANDSCAPING FOR POLLINATORS AND BENEFICIAL PREDATORS

Pollinators and beneficial insects are only beginning to be appreciated for the vital roles they play in pest control, environmental stability, and food production. Learn how minor changes in your property management can help to support and maintain populations of beneficial insects, which are rapidly losing the places and plants they need to survive. Learn tips for identifying the good—and the bad—bugs buzzing around your gardens, and welcome a whole new dimension to your enjoyment of gardening and nature.

Wednesday, March 26, 11 a.m.-1 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR4239

Instructor: Ellen Sousa, Landscaper, Author, *The Green Garden*

Fee: \$26 (Member) / \$32 (Nonmember)

Limit: 16 **Credit:** Elective-HD/Adv HD

horticulture & gardening

PRUNING SHRUBS WITH THE PROS

Early spring is an excellent time to prune many woody plants. In this hands-on workshop, participants work in small groups for guided practice on woody members of the Garden's shrub collection. Discover ways to enhance a plant's vigor, health, and appearance and learn which tools to use, when to prune, and how the plant responds. Bring hand-pruners and dress for working outdoors, rain, snow, or shine.

Saturday, April 5, 2014, 1:30-4:30pm

Garden in the Woods, Framingham, MA

Course Code: HOR3115

Instructor: Deborah Howe, Landscape Architect, Principal of Lighthall Co.

Fee: \$36 (Member) / \$43 (Nonmember)

Limit: 16

Credit: Elective-HD/Adv. HD

NATIVE HERBACEOUS PLANT MATERIALS: EARLY SEASON

Numerous native herbaceous plants are suitable for growing in New England gardens. Designed for anyone wanting to work at a professional level with native plants or for the avid home gardener, this course examines the characteristics of horticulturally significant native plants that grow and/or flower early in the season. You will look at how various species can be used in a designed landscape and how understanding a plant's native habitat can make us better gardeners and designers. During each class, you will spend time both in the classroom and in the Garden; for the latter, please wear sturdy shoes. This course is a companion to HOR1050, but either can be taken separately.

**Thursdays, April 24, May 8, May 22, June 19
1-3:30 p.m.**

Garden in the Woods, Framingham, MA

Course Code: HOR1000

Instructor: Jessie Panek, Landscape Designer

Fee: \$142 (Member) / \$167 (Nonmember)

Limit: 16

Credit: Core-HD; Elective-all certificates



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SHAPES AND SIZES: DESIGNING FOR IMPACT AND INTEREST

Shape plays a quiet yet fundamental role in awe-inspiring garden design. Size is a key contributor to overall impact. When used together, these elements of design become a dynamic duo for the savvy gardener. This design studio provides a hands-on opportunity to design a small to mid-sized garden. Bring your design project, plant ideas, and area measurements. The workshop will start with design fundamentals and move quickly into creating powerful combinations. You will leave with a solid game plan before hitting the plant nursery.

Saturday, May 3, 9:30 a.m.-2:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR1531

Instructor: Cheryl Salatino, Landscape Designer, Dancing Shadows Garden Design; MA-certified Horticulturist

Fee: \$68 (Members) / \$80 (Nonmembers)

Limit: 16

Credit: Core-HD; Elective-HD/Adv.HD

CONTAINER GARDENING WITH NATIVE PLANTS

Forget the petunias and potato vines. Create container plantings using native perennials adapted to the New England environment. Learn which natives are ideal for containers and how to combine them effectively. First you will explore design elements, container and plant selection, lighting requirements, temperature, growing media, irrigation, fertilization, overwintering, and long-term maintenance. Then you will assemble and plant your own container under the instructor's guidance. Bring your own container or purchase one at a discount at the Garden Shop that day. Class fee includes potting mix and fertilizer for your container. Plants will be available at discount prices to class participants.

Tuesday, June 3, 1-3 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR2950

Instructor: Carrie Waterman, Gardener Extraordinaire

Fee: \$30 (Member) / \$36 (Nonmember)

Limit: 16 **Credit:** Elective-HD/Adv.HD

Cosponsor: MA Audubon Drumlin Farm



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GNARLY NATIVES

Take a look into the world of vines, spines, bristles, thistles, thorns, barbs, abrasives, stingers, stunners, runners, rashes, prickles, predators, poisons, and other botanical oddities that are best suited for situations with little to no human interaction. Two of the Society's most knowledgeable horticulturalists team up to discuss some of the evolutionary processes that shaped these special features and define their ecological value and connection to the food web. The class will explore how to use these species in home landscapes and what they have to offer from a horticultural viewpoint. You will be surprised.

Thursday, July 10, 9:30 a.m.-2:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR2092

Leader: Nate McCullen and Dan Jaffe, Horticulture Staff, New England Wild Flower Society

Fee: \$66 (Member) / \$80 (Nonmember)

Limit: 20

Credit: Elective-HD/Adv.HD

NATURAL PEST CONTROL

Join certified arborist and horticulturalist Jim McSweeney and learn how to apply natural and organic techniques to control a variety of pests that plague edible and ornamental plants, including diseases, insects, rodents, deer, and weeds. Find out which methods work in the home orchard and which work in ornamental and vegetable gardens. Feel free to bring sample pests and lots of questions. Leave the workshop with information on how to protect your landscape from unwanted herbivores using the most environmentally sensitive and effective products available. This hands-on workshop will take place at Jim's home/office, where he has many edible and ornamental plants.

Saturday, July 12, 11 a.m.-1 p.m.

Chesterfield, MA

Course Code: HOR2022

Leader: Jim McSweeney, Arborist and Horticulturalist

Fee: \$26 (Member) / \$32 (Nonmember)

Limit: 20

Credit: Field- HD/Adv.HD

horticulture & gardening

LANDSCAPE FOR LIFE

This intensive introductory course will provide you with the knowledge, skills, and understanding to work with nature in your garden. Conventional gardens often work against nature, damaging the environment's ability to clean air and water, reduce flooding, combat climate change, and provide all the other natural benefits that support life on earth. The good news is that even one sustainable home garden can begin to repair the web of life. Find out how to create a great-looking garden that is healthier for you, your family, your pets, and the environment while saving you time and money. Learn techniques for working with soil, water, energy, and native plants that will help make your garden more earth-friendly and sustainable. This class is based on the principles of the Sustainable Sites Initiative, the nation's first rating system for sustainable landscapes. Bring a bag lunch each day.

Monday, July 21, 9 a.m.-12 p.m.; Tuesday, July 22, 9 a.m.-12 p.m.; Wednesday, July 23, 9 a.m.-12 p.m.; Friday, July 25, 9 a.m.-12 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR3720

Instructor: Mark Richardson, Horticulture Director, New England Wild Flower Society

Fee: \$75 (Member) / \$90 (Nonmember)

Limit: 16

Credit: Elective-HD

NATIVE HERBACEOUS PLANT MATERIALS: LATE SEASON

This course covers many of the best native North American herbaceous plants for New England landscapes and gardens, focusing on the ones that bloom in the second half of the growing season. You will focus on identification, cultural requirements, and ways to use these species effectively and beautifully

in designed and managed spaces. The class will take advantage of Garden in the Woods as the primary classroom, so be prepared for walking and weather. This course is a companion to HOR1000, but either can be taken separately.

**Wednesdays, July 23 and August 20
1 p.m.-3:30 p.m.**

Garden in the Woods, Framingham, MA

Course Code: HOR1050

Instructor: Jessie Panek, Landscape Designer

Fee: \$70 (Member) / \$82 (Nonmember)

Limit: 16

Credit: Core-HD; Elective-all certificates



horticulture & gardening



DESIGN-LESS GARDENING: A NATURALISTIC APPROACH

Disregard traditional design rules and adopt a new approach to garden design. Look to nature for your inspiration. What clues can you take from your landscape to help you put the right plant in the right place? Learn to evaluate sunlight, moisture, soil, and other factors to create a successful garden that does not require many inputs in the way of watering, fertilizing, or extra coddling on your part. This class will teach you how to create a low-maintenance garden that actively supports the environment and provides beauty for people and pollinators alike.

Thursday, August 14, 10 a.m.-1 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR4023

Instructor: Dan Jaffe, Propagator and Stock Bed Grower, New England Wild Flower Society

Fee: \$26 (Member) / \$32 (Nonmember)

Limit: 16

Credit: Elective-HD/Adv.HD

INTRODUCTION TO SEED-SAVING

Learn the basics of harvesting, processing, cleaning, and storing a variety of native plant seeds in this hands-on workshop. The class will start with a discussion about the timing of collection and continue with information on identifying plants, determining ripeness, harvesting, processing, and storing seeds properly to maintain their viability. Next you will venture into Nasami Farm for some botanizing and seed collection. Returning indoors, you will try your hand at cleaning and processing various types of seeds. You can take home the seeds you clean, and learn first-hand the tremendous benefits of seed-saving. Bring a bag lunch. This workshop complements BOT1067, "What Makes a Seed Tick," with Elizabeth Farnsworth on August 21. Sign up for both classes and receive a discount (\$72 for Members / \$90 for Nonmembers). Fee includes cost for seeds and supplies.

Saturday, August 24, 10 a.m.-2 p.m.

Nasami Farm, Whately, MA

Course Code: HOR3205

Instructor: Kate Stafford, Propagator and Operations Manager, New England Wild Flower Society

Fee: \$54 (Member) / \$65 (Nonmember)

Limit: 16

Credit: Elective-all certificates

horticulture & gardening

NATIVE WOODY PLANT MATERIALS

Come explore the diversity of native trees, shrubs, and woody vines and their uses in home gardens and surrounding landscapes. This course will delve into growth characteristics, cultural requirements, and the best horticultural uses of commercially available woody plants. Which species grow well in heavy shade? Which can be used to support local wildlife and/or humans? Learn how to stagger your plantings for continuous bloom, fruit production, and fall color. This intensive class will serve anyone wanting to work at a professional level, but is also appropriate for the avid home gardener. The course will in-

clude lectures and walks in the Garden as well as a field trip to the Arnold Arboretum. Bring a bag lunch each day.

Monday, September 16, 10 a.m.-2:30 p.m.;
Tuesday, September 17, 11-1 p.m.; **Friday,**
September 19, 10 a.m.-2:30 p.m.

Garden in the Woods, Framingham, MA and field site

Course Code: HOR1100

Instructor: Dan Jaffe, Propagator and Stock Bed Grower, New England Wild Flower Society

Fee: \$144 (Member) / \$182 (Nonmember)

Limit: 16

Credit: Core-HD; Elective-all certificates



horticulture & design trips

TREE CARE BASICS

Certified arborist and horticulturalist Jim McSweeney demonstrates arboricultural basics based on two decades of experience working with trees. Jim separates fluff from the facts. He will cover site evaluation, plant selection, planting techniques, watering, mulching, pruning, natural pest control, and more. This workshop will take place at Jim's home/office, where he has planted dozens of edible and ornamental trees over the past ten years. All participants will receive a copy of the USDA guide, *Tree Owner's Manual*, which covers the topics you will discuss and more.

Saturday, May 10, 11 a.m.-1 p.m.

Chesterfield, MA

Course Code: HDT2013

Leader: Jim McSweeney, Arborist and Horticulturalist

Fee: \$26 (Member) / \$32 (Nonmember)

Limit: 20

Credit: Field-HD/Adv.HD

RAIN GARDENS AND MORE: EFFECTIVE USES OF RAINWATER

Would you like to learn to protect our precious water resources while creating lush gardens using native plants that attract birds and butterflies? Using water from your roof, driveway, or lawn, rain gardens take full advantage of our natural rainfall rather than wasting it as runoff. You will tour a beautiful twenty-acre, 24-home cohousing community in a rural setting, where a varied, mostly native plant landscape has been in place for 17 years. You will explore site features that include rain garden terraces, rain barrels, retention basins, swales, and durable, no-water, organic lawns. You will also learn about rainwater design options and construction methods and discuss strategies for solving runoff

problems such as erosion, icy walkways, or wet basements.

Saturday, June 21, 10 a.m.-12:30 p.m.

Acton, MA

Course Code: HDT1030

Leader: Dori Smith, M.Ed., Designer, Garden for Life, Acton, MA

Fee: \$26 (Member) / \$32 (Nonmember)

Limit: 20

Credit: Field-HD/Adv.HD

This program qualifies for 2.5 NOFA OALCP credits.



horticulture & design trips



HISTORIC GARDENS—IN YOUR OWN BACK YARD

Can you see evidence of earlier gardens and landscapes where you live? Are you involved in preserving or teaching about a historic garden in your community? Would you like to recreate or restore elements of period gardens for your own historic home? Noted Horticulturalist John Forti will explore garden history in practical new ways that give gardeners the tools to select and source period plants, choose appropriate planting patterns with native plants, and select structures and furnishings that can help bring elements

of the past to life into twenty-first century gardens. There will be an opportunity to tour the grounds of the Justin Morrill Homestead after the talk.

Saturday, July 19, 1-2 p.m.

Stafford, VT

Course Code: HDT5001

Instructor: John Forti, Curator of Historic Landscapes at Strawberry Banke in Portsmouth, NH

Fee: \$12 (Member) / \$15 (Nonmember)

Limit: 25

Credit: Field-HD/Adv.HD

Cosponsor: Friends of the Justin Morrill Homestead

horticulture & design trips

OPEN FARM AT BUG HILL

Bug Hill Farm is a small, USDA-certified organic, uncommon fruit, and edible flower farm on fifty acres of fields and forest. Established out of a desire to become a model for environmental, agricultural, and social sustainability, the farm serves as an educational center for visitors interested in the complementary aspects of ecological restoration and sustainable small-scale farming. This workshop includes a walking trail tour through early successional habitat that has been enhanced for wildlife and a look at a research plot established with a Sustainable Agriculture Research and Education Grant. The workshop coincides with Bug Hill Farm's open house and garden tour, where you can meet neighboring farmers and beekeepers and sample their products. A map of other local farms to visit will be provided.

Sunday, July 20, 11 a.m.-1 p.m.

(Rain date: Sunday, July 27)

Ashfield, MA

Course Code: HDT2011

Instructor: Kate Kerivan, Owner/Grower, Bug Hill Farm

Fee: \$12 (Member) / \$15 (Nonmember)

Limit: 25

Credit: Field-HD/Adv.HD

SIBLEY FARM

Join us for a visit to central Massachusetts' most recent large-scale land protection project, Sibley Farm. This amazing site has more than 350 acres of permanently protected old farmland, woods, and wetlands (including a large beaver pond) connected to hundreds of other acres of permanently protected open space in Spencer and Leicester. You will look for the ripening berries of native viburnums, dogwood, and doll's eyes and watch the many birds and butterflies that use

the old fields, which are now managed as open grassland habitat. This easy-to-moderate hike features expansive views, cool forests, and pristine ponds and streams.

Tuesday, August 19, 10 a.m.-12 p.m.

Spencer, MA

Course Code: HDT2010

Instructor: Ellen Sousa, Landscaper, Author of *The Green Garden*

Fee: \$23 (Member) / \$28 (Nonmember)

Limit: 16

Credit: Field-HD/Adv.HD



horticulture & design trips

MANOMET'S GLORIOUS FLOWERS AND BIRDS

Perched high on the bluffs overlooking Cape Cod Bay, the diverse forty acres of Manomet encompass vegetable and perennial gardens, woodlands, meadows, cranberry bogs, and a pond. Enjoy a tour through the century-old Ernst Garden for Wildlife, and view a slide show explaining Manomet's history and its mission to conserve natural resources for the benefit of wildlife and human populations. Learn to identify both native and non-native plants, enjoy the activity of numerous butterfly species, and observe birds-in-hand as you learn about their habitats and ecology at one of the oldest bird-banding stations in the country. Bring your lunch and enjoy a picnic on the bluff with a spectacular view of the bay. Wear sturdy shoes and dress for the weather.

Wednesday, August 27, 9 a.m.-1 p.m.

(Rain date: Thursday, August 28)

Plymouth, MA

Course Code: HDT1500

Instructors: Kim Goggin, Manomet Garden Coordinator, and Trevor Lloyd-Evans, Senior Ornithologist

Fee: \$44 (Member) / \$50 (Nonmember)

Limit: 16

Credit: Field-All certificates

Co-sponsor: Manomet Center for Conservation Sciences



botany & conservation



INTRODUCTION TO BOTANICAL ILLUSTRATION

Looking for a unique opportunity to practice your observation skills, which are important for botanists and artists alike? Learn to appreciate the structure of plants by recording what you see with paper, pencil, and paint. This course, open to all levels, includes two pencil sessions and two introductory watercolor sessions under the guidance of an experienced and encouraging instructor. Focus on accurate rendering of live plants, correct proportions, shading, and adding color to your drawing. As Carol likes to remind students, “the act of drawing is much more important than what ends up on the page.”

Thursdays, March 6, 13, 20, 27, April 3, 10
10 a.m.-1 p.m.

Garden in the Woods, Framingham, MA

Course Code: ART1061

Instructor: Carol Govan, Artist and Naturalist

Fee: \$114 (Member) / \$138 (Nonmember)

Limit: 12

Credit: Elective-all certificates

Cosponsor: MA Audubon Drumlin Farm

LEARN ALL ABOUT LICHENS

There are 4,732 lichen species listed for North America. A symbiotic association between fungi, algae and/or cyanobacteria, each lichen is unique, with a specific growth form, chemistry, and ecology. Using stereomicroscopes, you will closely examine 15 local New England lichen species, learning the features that distinguish one lichen species from another. You will perform chemical spot tests to determine lichen chemistry, use internet resources to confirm your identifications, and develop a key to the lichens studied in the workshop. Please bring a hand lens.

Sunday, March 16, 12-5 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT3637

Instructor: Elizabeth Kneiper, Lichenologist

Fee: \$66 (Member) / \$80 (Nonmember)

Limit: 16

Credit: Elective-FB; Adv.FB



botany & conservation

THREE HANDY TOOLS FOR ACCURATE PLANT IDENTIFICATION

Simplify plant identification with these useful tools. You will practice working with the traditional *Newcomb's Wildflower Guide*, the user-friendly digital guide *Go Botany*, and the technical *Flora Novae Angliae* to identify plants. Each method has different advantages for work with specimens in the field and off-site. This class is an essential and practical botanical primer for anyone wanting to improve his or her ability to identify and recognize plants.

Thursday, April 17, 10 a.m.-1 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT2154

Instructor: Neela DeZoysa, Ph.D, Botanist and Author

Fee: \$40 (Member)/\$48 (Nonmember)

Limit: 16

Credit: Elective-FB; Adv. FB

WILDFLOWERS OF NEW ENGLAND

New to the world of native plants? There's no better way to study native New England flora than in the field. Learn to identify wildflowers by studying plant habitats at the Garden. Sessions will cover plant identification using *Newcomb's Wildflower Guide*. You will study family characteristics, growth patterns, habitats, and pollination mechanisms of many native wildflowers. Bring a hand lens to each class. Required text: *Newcomb's Wildflower Guide*.

Garden in the Woods, Framingham, MA

Instructor: Neela de Zoysa, Ph.D., Botanist and Author

Fee: \$142 (Member) / \$167 (Nonmember)

Limit: 16

Credit: Core-FB or HD

Choose one of two sections:

Tuesdays, April 29, May 6, 13, 27
10 a.m.-12:30 p.m.

Course Code: BOT3000

Tuesdays, April 29, May 6, 27, 6:30-9 p.m.;
Saturday, May 17, 10 a.m.-12:30 p.m.

Course Code: BOT3001



botany & conservation



MARVELOUS MONOCOTS

This diverse group includes trilliums, arums, lilies, orchids, and irises as well as grasses. What do they have in common? Take apart a typical monocot and see for yourself some of the characteristics they share. Next, walk through the Garden to enjoy the trilliums in bloom and find other amazing species in this group.

Wednesday, May 7, 9:30 a.m.-12:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT2316

Instructor: Carol Govan, Artist and Naturalist

Fee: \$40 (Member) / \$48 (Nonmember)

Limit: 16

Credit: Core-Adv.FB; Elective-all certificates

NATIVE NEW ENGLAND SHRUBS

Native New England shrubs come in many shape, sizes, and colors, and vary widely in their bark, flowers, and fruits. Familiarize yourself with almost fifty species growing in this region. This course emphasizes identification of shrubs; you will also learn about family characteristics and historic plant uses. Bring a hand lens to each class. Weekend classes will be held off-site; directions will be provided at the first class.

Wednesdays, May 28, June 4, 11, 6:30-8:45 p.m.

Saturdays, May 31, June 7, 9 a.m.-1:30 p.m.

Garden in the Woods, Framingham, MA, and field sites

Course Code: BOT3300

Instructor: Roland "Boot" Boutwell, Naturalist

Fee: \$215 (Member) / \$258 (Nonmember)

Limit: 16

Credit: Core-FB or HD; Elective-all certificates

botany & conservation

FIELD IDENTIFICATION TECHNIQUES

Take your plant identification skills to the next level and equip yourself with the skills and confidence necessary to identify native plants in the field. Advance from using amateur field guides to using professional keys. Observe a variety of floral structures, learn to recognize reliable family characteristics, and develop familiarity with botanical Latin. This course is designed for students who have taken “Wildflowers of New England” or have some previous experience identifying wildflowers. Bring a hand lens and a bag lunch. Information on required texts will be sent upon registration.

Saturdays, June 1, 8, 22, 1-5 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT2008

Instructor: Leslie Duthie, Botanist

Fee: \$190 (Member) / \$228 (Nonmember)

Limit: 16

Credit: Core-FB/Adv.FB; Elective-all certificates

NEW ENGLAND PLANT COMMUNITIES

The diversity of plant communities in New England is truly impressive, ranging from freshwater and tidal wetlands, coastal dunes, grasslands, and heathlands to forests and montane communities. Learn to interpret the ecological processes of various landscapes by understanding the dominant canopy, characteristic and indicator species, and the structure and range of particular community types. Apply this knowledge to the study of plant communities at Garden in the Woods. Lectures cover the effects of soils, topography, moisture, geological conditions, glaciation, and past land use as well as the vegetation of the communities themselves. Extensive handouts included.

Wednesdays, June 18, 6-8 p.m.; June 25, 5-8 p.m.; July 2, 5-8 p.m.; July 9, 6-8 p.m.; July 16, 6-8 p.m.

Garden in the Woods, Framingham, MA, and field sites

Course Code: BOT4000

Instructor: Pat Swain, Community Ecologist, MA Natural Heritage Endangered Species Program

Fee: \$227 (Member) / \$267 (Nonmember)

Limit: 16

Credit: Core-FB/Adv.FB; Elective-all certificates



botany & conservation

NEW ENGLAND TREES: A WORKSHOP

A familiarity with trees is fundamental to understanding the temperate forests of New England and to making informed tree planting decisions for your yard or natural area. This workshop is an abridged version of the Society's Framework Trees curriculum. It covers the trees of New England, their place in natural communities, and successional history. The class will begin with a classroom survey of the topic. Following a break for lunch, we will continue our study in the field where we will see over forty native tree species, review their identification, and learn which attributes suit different trees for use in the landscape.

Wednesday, June 25, 9:30 a.m.-2:30 p.m.

Tiverton Four Corners, RI

Course Code: BOT3216

Instructor: Garry Plunkett, Certificate Program Graduate, Conservation Land Manager

Fee: \$66 (Member) / \$80 (Nonmember)

Limit: 18

Credit: Elective-all certificates

INTRODUCTION TO PLANT FAMILIES

Rosaceae, Liliaceae, Violaceae, Ericaceae... such diverse families. Expand your understanding of New England's wild plants by discovering interesting clues about their family relationships. In this class, students will examine plants belonging to several families of woody and herbaceous plants with an eye toward the basic formulas for plant structure. You will walk through the Garden observing similarities and differences between plants, then delve deeper using a microscope. Next, you will learn how to apply what you have learned to other plant



families. Handouts will be provided before the class begins, so novices can become familiar with the basic botanical terminology in *Go Botany* and *Newcomb's Wildflower Guide*. Bring lunch and a hand lens to class.

Thursdays, July 17, 24, 31, 10 a.m.-2 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT2260

Instructor: Carol Govan, Artist and Naturalist

Fee: \$180 (Member) / \$216 (Nonmember)

Limit: 16

Credit: Core-FB; Elective-all certificates

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SURVEY OF GRASSES OF THE NORTHEAST

Explore the splendid grasses of the Northeast. Using dried specimens and microscope displays, you will study the key characteristics of ten tribes and over sixty genera of common grasses identifiable in mid-summer. The first day of this workshop is devoted entirely to lecture, discussion, note-taking, and examination of specimens and displays. On the second day, the class will take a field trip to a local site, where you will apply your newly gained skills to observing as many grass species as you can find. Students are expected to understand basic botanical concepts and nomenclature. A good 10x or 15x hand lens is essential. This workshop, previously covered in a single day, is offered now as a two-day workshop in response to popular request.

Friday, July 18, 9 a.m.-3 p.m.; Saturday, July 19, 10 a.m.-2 p.m.

Garden in the Woods, Framingham, MA, and field site

Course Code: BOT3518

Instructor: Dennis Magee, Author, Environmental Consultant

Fee: \$77 (Member) / \$91 (Nonmember)

Limit: 16

Credit: Core-Adv.FB; Elective-all certificates

INVESTIGATING YOUR YARD AND WOODS IN THE DIGITAL AGE

Want to learn to easily identify wild plants and butterflies in your yard or nearby open space? We will make it simple by teaching you to key out plants using New England Wild Flower Society's new online guide to the flora of New England, *Go Botany*. You will learn tips and tricks for fast, successful identification of native and naturalized plants. Using butterfly specimens from the Yale Peabody Museum's Entomology Collection, you will identify butterflies using ICBug, the Yale Peabody Museum's online guide to the butterflies of Connecticut. Finally, you will learn to identify some birds using YardMap (Cornell Lab of Ornithology).

Saturday, July 26, 9:30 a.m.-12 p.m.

Yale Peabody Museum, New Haven, CT

Course Code: BOT3802

Instructor: Jim Sirch, Education Coordinator, Yale Peabody Museum of Natural History

Fee: \$25 (Member) / \$30 (Nonmember)

Limit: 25

Credit: Elective-all certificates

Cosponsor: Yale Peabody Museum

botany & conservation

DISCOVERING NATIVE FERNS

Ferns are some of the most ancient and beautiful plants in our landscape. Learn to identify and distinguish between 21 or so of the most common ferns of New England. Through lecture, slides, drawings, and microscopic examination of fresh plant material, you will become familiar with 95% of the ferns you will see in the woods. The class culminates with a tour of these ferns in the Garden. Bring lunch and a hand lens if you have one.

Saturday, August 2, 10 a.m.-2:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT3410

Instructor: Don Lubin, Fern Enthusiast

Fee: \$60 (Member) / \$72 (Nonmember)

Limit: 16

Credit: Core-Adv.FB; Elective-all certificates

THE ROSE FAMILY

Members of the large and diverse rose family (Rosaceae) have similar flowers, but their fruits—apples, cherries, strawberries, and dry follicles—are very diverse. In this class, you will study the shared features that connect rose species and the distinctive characteristics that separate sub-families. Through a presentation of the general characteristics of Rosaceae species and an exploration of many genera and species, you will get a close look at typical flowers and different fruits. The class will culminate with a walk through the Garden to find species in this wonderful family.

Tuesday, August 5, 9:30 a.m.-12:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT2315

Instructor: Carol Govan, Artist

Fee: \$40 (Member) / \$48 (Nonmember)

Limit: 16

Credit: Core-Adv.FB; Elective-all certificates



botany & conservation



BOTANIC INVENTORY METHODS

Learn how to inventory the flora and describe the vegetation communities on public and private land for the purposes of conservation planning and management. The evening session covers the elements of field preparation: maps; aerial photography; GPS units; field equipment; data sheets; rare plant and community documentation; and the fundamentals of state and national vegetation community classification systems. The field investigation includes sampling a variety of forest and meadow communities; applying data on geology, soils, and hydrology; and providing information on species associations. The class will practice applying rapid and comprehensive sampling techniques. Sturdy footgear is recommended, as are a compass and hand lens. Bring a bag lunch for the field session.

Thursday, August 7, 6:30 - 8:30 p.m.

Friday, August 8, 10 a.m. - 4 p.m.

Garden in the Woods, Framingham, MA, and field sites

Course Code: BOT2050

Instructor: Ted Elliman, Senior Botanist, New England Wild Flower Society

Fee: \$112 (Member) / \$146 (Nonmember)

Limit: 16

Credit: Core-FB; Elective-Adv.FB

WHAT MAKES A SEED TICK? THE BIOLOGY AND ADAPTATIONS OF SEEDS

Plant seeds are small (and sometimes large) miracle packets of life; they contain everything a plant needs for a head start. The adaptations of seeds for dispersal, dormancy, and germination are as endlessly fascinating as the incredible diversity of seed forms. A basic understanding of seed biology is useful for anyone saving or planting seeds. Join Elizabeth Farnsworth for a romp through the seed world with a colorful lecture, a seed quiz, and a chance to see many kinds of seeds up close. This workshop complements HOR3205, "Introduction to Seed Saving," with Kate Stafford on August 23. Sign up for both and get a discount (\$72 for Members / \$90 for Nonmembers).

Thursday, August 21, 6:30-8:30 p.m.

Nasami Farm, Whately, MA

Course Code: BOT1067

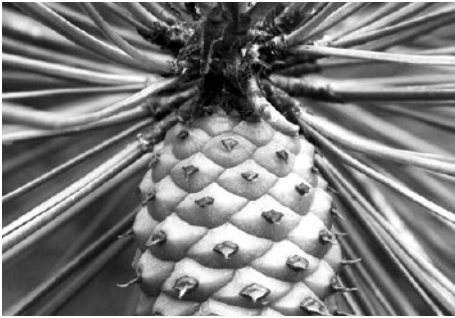
Instructor: Elizabeth Farnsworth, Senior Research Ecologist, New England Wild Flower Society

Fee: \$26 (Member) / \$32 (Nonmember)

Limit: 20

Credit: Elective-all certificates

botany & conservation



COOL CONIFERS

Understand the general characteristics of several woody plant families described as gymnosperms, including members of the Pinaceae, Cupressaceae, and Taxaceae families. Looking at pines, spruces, firs, cedars, yews, and many of their relatives, you will study the similarities between them and the important characteristics that separate them into different genera and species. This class will offer students a chance to see and touch cones, seeds and leaves; learn the historical importance of these trees in New England; and walk the Garden to compare the form, bark, twigs, leaves, cones, and other characteristics of gymnosperms.

Thursday, August 21, 9:30 a.m.-12:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT2311

Instructor: Carol Govan, Artist and Naturalist

Fee: \$40 (Member) / \$48 (Nonmember)

Limit: 16

Credit: Core-Adv.FB; Elective-all certificates

CONTROLLING INVASIVES AT HOME

Take control of your home landscape with information and tips from an invasive-plants expert. This class will cover about thirty of the most common invasive plants in the local landscape. Through discussion, lecture, ex-

amination of herbarium specimens, and a visit to a local invasives-control site, you will learn to recognize non-native invasive plants and understand the features that make them so disruptive to natural ecosystems. The class will discuss management techniques for many of these species on the home and landscape scale. The *Invaders* issue of the Society's magazine and the *MA Field Guide to Invasives* will be available for purchase at a discount.

Tuesday, September 9, 10 a.m.-2 p.m.

Garden in the Woods, Framingham, MA, and field site

Course Code: BOT5126

Instructor: Ted Elliman, Senior Botanist, New England Wild Flower Society

Fee: \$66 (Member) / \$80 (Nonmember)

Limit: 16

Credit: Core-Adv.FB/Adv.HD; Elective-all certificates

PLANT FORM AND FUNCTION

This course provides an introduction to botany basics, including fascinating plant anatomy and physiology. Students are introduced to the plant kingdom through slides and live materials. Microscopic study allows for the detailed observation of roots, stems and leaves, and their component tissues. Examination of flowers, fruits, and seeds reveals the details of pollination, fertilization, dispersal and germination, emphasizing the relationship between plant form and function.

Thursdays, September 18, 25, October 2, 9, 16 6:30-9 p.m.

Bentley University, Waltham, MA

Course Code: BOT1000

Instructor: Nancy Eyster-Smith, Ph.D, Botanist

Fee: \$230 (Member) / \$276 (Nonmember)

Limit: 16

Credit: Core-FB/HD; Elective-all certificates

field trips

TREE ID USING BARK AND HABITAT CLUES

Have you ever looked at a tree in winter and wondered what it might be? For almost half the year, bark provides the best clue to tree identification. In this class, which is part of a series on the trees found in different habitats, you will use bark to key out tree species in the field and become familiar with the characteristic bark of trees in different habitats and at different stages of growth. Bring binoculars, water, layers of very warm clothes, lunch, waterproof boots, and the book *Bark*, by Michael Wojtech, if you have a copy.

Leader: Nancy Goodman, Naturalist

Fee: \$20 (Member) / \$25 (Nonmember)

Credit: Field-FB; Adv.FB

Limit: 12

Choose from one of three sections (or get extra practice by attending all three):

Saturday, March 15, 10 a.m.-2 p.m.

South Deerfield, MA

A large river floodplain, this site contains a wide variety of tree species.

Course Code: FDT2064

Cosponsor: Hitchcock Center for the Environment

Saturday, April 12, 10 a.m.-2 p.m.

Wellesley, MA

Because this spot encompasses a few different habitats, including a dry ridgetop and a swampy small stream area, it contains a diverse selection of trees.

Course Code: FDT1122

Saturday, April 26, 2014, 10 a.m.-3 p.m.

Cummington, MA

This beautiful old-growth forest has outstanding specimen trees, including some of the tallest pines in the Northeast.

Course Code: FDT2065

Cosponsor: Hitchcock Center for the Environment

FUNGI IN THE FIELD

What is a mushroom anyway? Can you distinguish a bolete from a gilled mushroom? Although fall is considered fungi season in the Northeast, fungi are seasonally cyclical, and different species and types can be found almost anytime. On this trip, you will explore the Drumlin Farm sanctuary looking for fungi, learning about the crucial and sometimes astonishing roles these fascinating life forms play in ecosystems, and discovering methods for identifying mushrooms and other fungi in the field.

Choose one or both sessions:

Sunday, June 15, 1-3:30 p.m.

Lincoln, MA

Course Code: FDT1079

Leader: Jef Taylor, Naturalist

Fee: \$25 (Member) / \$29 (Nonmember)

Limit: 16

Sunday, July 20, 1-3:30 p.m.

Lincoln, MA

Course Code: FDT1119

Leader: Jef Taylor, Naturalist

Fee: \$25 (Member) / \$29 (Nonmember)

Limit: 16

Cosponsor: MA Audubon Drumlin Farm

field trips



OLD-GROWTH STAND AT MOHAWK STATE FOREST

Take an awe-inspiring hike along the Mahican-Mohawk Trail through the tallest trees in New England. Hike to a swath of old-growth forest boasting trees that are 250–400 years old. Join old-growth expert Bob Leverett for this spectacular walk, which includes scenic vistas as well as discussions of the role played by the old Mohawk Trail from the late 1500s until the end of the Revolutionary War. This strenuous hike requires strong legs and good balance. Wear proper footwear and bring lunch and water.

Sunday, April 13, 10 a.m.-3:30 p.m.

Charlemont, MA

Course Code: FDT2052

Leader: Bob Leverett, Executive Director of ENTS, Eastern Native Tree Society

Fee: \$40 (Member) / \$48 (Nonmember)

Limit: 15

Credit: Field-FB/Adv.FB

SPECTACULAR SPRING FLORA IN THE BERKSHIRES

Join expert botanist Ted Elliman for a field trip along the Appalachian Trail. You will look for a variety of early-blooming spring plants in the rich sugar maple forest that covers the slopes. Species include spring beauty, sharp-lobed hepatica, wild ginger, Dutchman's-breeches, squirrel corn, large-flowered bellwort, mayapple, common and cut-leaf toothwort, a variety of violets, and many other species. Near the top of the slope, the forest changes to a mixed hardwood-hemlock stand, and you will compare the flora in that stand with the sugar maple woods just below it. This is a moderate-to-strenuous hike. Wear proper footwear; bring a lunch and plenty of water.

Sunday, April 27, 10 a.m.-2 p.m.

Tyringham, MA

Course Code: FDT2063

Leader: Ted Elliman, Senior Botanist, New England Wild Flower Society

Fee: \$38 (Member) / \$46 (Nonmember)

Limit: 16

Credit: Field-FB/Adv.FB

field trips

SPRING EPHEMERALS AT ACTON ARBORETUM

The Acton Arboretum is a gem of conservation land that includes a remarkable number of habitats. Trails wind through apple orchards and woodlands, alongside ponds, and over a boardwalk traversing an old cranberry bog. The Friends of the Acton Arboretum have planted a host of spring ephemerals in the woods; in late April, many of them should be in full bloom, including wood anemone, foam flower, Virginia bluebells, red trillium, and spring beauty. This field trip will focus on wildflower identification and natural history. Bring lunch, water, a favorite field guide, and a hand lens if you have one.

Monday, April 28, 10 a.m.-2 p.m.

Acton, MA

Course Code: FDT1004

Leader: Roland "Boot" Boutwell, Naturalist

Fee: \$23 (Member) / \$28 (Nonmember)

Limit: 15

Credit: Field-All certificates

BOTANICAL LEGACY OF ESTABROOK WOODS

Join Concord, MA, naturalist Cherrie Corey for an exploration of the rich botanical history of the 1,200-acre Estabrook Woods, the largest contiguous, undeveloped woodland tract in suburban Boston. This glacially carved landscape of mature woodlands, swamplands, and ponds supports locally rare plants, exemplary natural communities, and many layers of historic significance. Thanks in large part to Ray Angelo, Richard Eaton, nurseryman Minot Pratt, Thoreau, and the Harvard Field Station archives, you will have unprecedented access to stories and field data related to the flora of this vast woodland. The history and geology of these

woods provides insights into the processes that shape other landscapes. This moderate-to-strenuous walk will cover about 3.5 miles of trails. Water-resistant hiking boots are recommended, as you will ford several streams.

Sunday, May 4, 1-4 p.m.

Concord, MA

Course Code: FDT1113

Leader: Cherrie Corey, Naturalist and Photographer

Fee: \$28 (Member) / \$35 (Nonmember)

Limit: 18

Credit: Field-FB/Adv.FB

EDIBLE WILD PLANTS: A SUBURBAN FORAY

The greater Boston area is home to over 150 species of edible wild plants, many of which are more nutritious and flavorful than their cultivated counterparts. Over the course of this three-mile hike in Weston, MA, you will encounter more than two dozen edible wild plant species (and possibly edible mushrooms). Keys to the identification of each species will be provided, as will information on seasons of availability, nutritional value, preparation methods, and guidelines for safe and responsible foraging. Following the hike, the group will convene at a nearby home to sample several recipes made from wild edibles. Bring water and writing materials.

Saturday, May 10, 1-5 p.m.

Weston, MA

Course Code: FDT1038

Leader: Russ Cohen, Author and Naturalist

Fee: \$40 (Member) / \$48 (Nonmember)

Limit: 20

Credit: Field-FB/Adv.FB

field trips

SLEEPING GIANT STATE PARK

Sleeping Giant State Park, boasting 1,500 acres of basaltic traprock ridges, rises prominently above neighboring fields and suburbs six miles north of New Haven, CT. The park is best known for its shape: hills resembling a recumbent giant that, according to Native American legend, is the evil spirit Hobbo-mock. In spring, the park's trails are graced with columbine, fringed polygala, pale corydalis, dwarf ginseng, a wonderful display of violet species, and many more wildflowers. In wetter areas, you will see diverse ferns, marsh marigold, and perhaps golden saxifrage. The Giant's many habitats include mature stands of hardwoods, hemlock groves, red maple swamps, and red cedar ridgetops with fine views. This four-mile hike is moderate to strenuous; bring lunch and plenty of water, and wear foot gear suitable for rocky trails.

Sunday, May 18, 10 a.m.-2 p.m.

Hamden, CT

Course Code: FDT6001

Leader: Ted Elliman, Senior Botanist, New England Wild Flower Society

Fee: \$23 (Member) / \$28 (Nonmember)

Limit: 16

Credit: Field-FB/Adv.FB

Cosponsor: Yale Peabody Museum of Natural History

SPRING WILDFLOWERS AT MACOMBER WOODS

This 57-acre woodland oasis in Framingham, MA, encompasses meadows, an upland forest, a babbling brook, and wooded wetlands. The property was part of the Race-land estate owned by John R. Macomber, for whom it is named. Untouched for decades, the land has been reclaimed by nature, but signs of the human touch remain:

the stonework at the entrance, cattle guards on the bridges, and century-old wisteria vines and rhododendrons. The broad trails are old carriage roads that crisscrossed the estate. Among the plants you may see in bloom are Indian cucumber root, rhododendron, pink lady's-slippers, and jack-in-the-pulpit. The walk will focus on plant identification as well as natural history. Bring lunch, water, a favorite field guide, and a hand lens if you have one.

Tuesday, May 20, 10 a.m.-2 p.m.

Framingham, MA

Course Code: FDT1006

Leader: Roland "Boot" Boutwell, Naturalist

Fee: \$23 (Member) / \$28 (Nonmember)

Limit: 16 **Credit:** Field-All certificates

MOUNT WACHUSETT SPRING EPHEMERALS HIKE

Join Conservation staff Erin Schaeffer and Amanda Weise for a moderate-to-strenuous half-day hike to see the first flowers of the season and explore central New England's woodlands. You will hike an estimated 1.5 mile loop from Echo Lake through the rich woodlands of the High Meadow and Jack Frost trails to the summit, followed by a leisurely walk down the Mountain House Trail. This trip is geared to hikers who want to learn about the New England landscape. Wear sturdy hiking boots; bring water and lunch for a picnic on the summit.

Sunday, June 8, 10:30 a.m.-2:30 p.m.

Princeton, MA

Course Code: FDT1025

Leaders: Erin Schaeffer, NEPCoP Coordinator; Amanda Weise, Ecological Programs Coordinator

Fee: \$21 (Member) / \$25 (Nonmember)

Limit: 16

Credit: Elective-all certificates

field trips

FABULOUS FERNS OF THE BLUE HILLS

Just minutes from downtown Boston, the Blue Hills Reservation is the largest conserved tract in the greater Boston area. It contains many wild treasures—from coyotes to copperheads, dogwoods to lady's-slippers, and turkey vultures to dragonflies—and, of course, a wealth of fern species. Hiking along the northern Border Path, you will see more than a third of all the fern species native to Massachusetts as well as some hybrid ferns, several club-mosses, and a horsetail. Wear long pants (there is poison ivy on the trail) and suitable footwear. Bring a hand lens if you have one, and plenty of water.

Saturday, June 14, 12 p.m.-4 p.m.

Milton, MA

Course Code: FDT1032

Leader: Don Lubin, Fern Enthusiast

Fee: \$23 (Member) / \$28 (Nonmember)

Limit: 16

Credit: Field-FB/Adv.FB

LATE SPRING WILDFLOWERS IN MAINE

Come explore the Wells Reserve, in Wells, ME, and enjoy the wildflowers that bloom in late spring. The reserve's seven miles of trails pass through a rich variety of habitats, but you won't have to walk far to see a host of flowers in bloom. One highlight of the Reserve is the stroll along the boardwalk through the wet meadow, where you may spot rare dragon's-mouth orchids in bloom. With a bit of luck, you may also see grass-pink orchids. You will learn basic ID characteristics as well as wildflower natural history and lore. Bring a snack, a favorite field guide, and a hand lens if you have one.

Saturday, June 14, 10 a.m.-1 p.m.

Wells, ME

Course Code: FDT3020

Leader: Roland "Boot" Boutwell, Naturalist

Fee: \$23 (Member) / \$28 (Nonmember)

Limit: 16

Credit: Field-FB/Adv.FB



field trips

LICHEN DIVERSITY IN MYLES STANDISH STATE FOREST

Have you ever wondered about the lichens you see along trails in southern New England? The sandy, glacial soils of Myles Standish State Forest in Carver and Plymouth, MA, support large and diverse assemblages of soil lichens. The bark of woody plants in the pitch pine/scrub oak communities also support the growth of leafy, bushy, and encrusting lichens species. Learn how to distinguish lichen species that grow along the trails and gain an appreciation for lichen diversity in this important Atlantic coastal pitch pine and scrub oak community. Bring a hand lens and a camera to document what you see. Tick-proof clothing is essential, as is plenty of water.

Sunday, June 22, 12 p.m.-4 p.m.

Carver, MA and Plymouth, MA

Course Code: FDT1115

Leader: Elizabeth Kneiper, Lichenologist

Fee: \$33 (Member) / \$40 (Nonmember)

Limit: 16

Credit: Field-FB/Adv.FB

ON THE BOARDWALKS: PLANTS AND COMMUNITIES OF ESHQUA AND CRESCENTI BOGS

Eshqua Bog is a rich, calcareous fen well known for its orchid populations, including showy lady's-slipper, white bog orchid, and northern green orchid, and its great diversity of other wildflowers, ferns, grasses, sedges, and shrubs. Philbrick-Crescenti Bog is a classic acidic sphagnum bog with stands of black spruce and tamarack bordering a large open mat with pitcher plants, sundews, cotton grass, wild calla, and horned bladderwort as well as a variety of heath plants, including leatherleaf, sheep laurel, bog rosemary, and cranberry, many of which will be blooming in late June. You will compare the flora of both systems, as well as the plant communities of the very different upland forests that surround these exceptional wetlands. Bring a lunch and plenty of water.

Saturday, June 28, 10 a.m.-4 p.m.

Hartland, VT

Course Code: FDT5008

Leader: Ted Elliman, Senior Botanist, New England Wild Flower Society

Fee: \$40 (Member) / \$48 (Nonmember)

Limit: 12

Credit: Field-FB/Adv.FB



field trips



ANTS IN YOUR PLANTS

Ants are the little creatures that run the world, and are very important to the ecology of plants. Botanic gardens have a variety of native and exotic plants, both of which provide opportunities for learning about interactions between ants and plants. Join two of the authors of the new *Field Guide to the Ants of New England* for a morning of learning about ants in the cultivated and wild sections of the Coastal Maine Botanical Gardens. You will also learn how to catch ants using just your hands or specialized equipment, and how to quickly identify both plants and ants in the field using only a hand lens. This is a moderate one-mile to two-mile walk through the garden and the gentle hills of the Jeffords Preserve. Bring plenty of water; wear clothing and shoes that protect against wet and ticks.

Thursday, July 10, 9:30 a.m.-12:30 p.m.

Boothbay, ME

Course Code: FDT3019

Leaders: Elizabeth Farnsworth and Aaron Ellison

Fee: \$35 (Members) / \$42 (Nonmembers)

Limit: 20

Credit: Field-All certificates

Cosponsor: Coastal Maine Botanical Gardens

FERNS OF CANAAN

Join fern expert Don Lubin in Canaan, NH, to visit a lovely woodland area that is especially rich in ferns and their relatives. Expect to see at least twenty pteridophytes, including oak fern and the rare Goldie's wood fern as well as several interesting horsetails and a clubmoss or two. This walk offers participants a unique day of fern discoveries and a chance to learn how to identify species in this fascinating and beautiful group.

Saturday, July 12, 11 a.m.-3 p.m.

(Rain date: Sunday, July 13)

Canaan, NH

Course Code: FDT4041

Leaders: Don Lubin, Fern Enthusiast

Fee: \$23 (Members) / \$28 (Nonmembers)

Limit: 16

Credit: Field-FB/Adv.FB

field trips

TUMBLEDOWN MOUNTAIN

The profile of this rugged mountain is impressive, with three bald peaks and two south-facing cliffs. In addition to its stunning views, Tumbledown Mountain holds a high-elevation pond. Yet all this terrain is accessible via an approximately two-mile trail that avoids steep climbing and scrambling! You will visit several different ecosystems, including the open peaks that harbor a special subalpine flora and rare species. In addition to botanizing, you will learn about birds, edible and medicinal plants, and geology. Join Research Botanist Arthur Haines, who lived two months near the summit releasing peregrine falcons, for a naturalist's and forager's look into this very special mountain. Proper footwear and clothing is necessary for fickle weather. Bring lunch, water, a hand lens, and binoculars for birding.

Sunday, July 27, 10 a.m.-4 p.m.

Weld, ME

Course Code: FDT3018

Leaders: Arthur Haines, Research Botanist,
New England Wild Flower Society

Fee: \$33 (Members) / \$40 (Nonmembers)

Limit: 14

Credit: Field-FB/Adv.FB

FLOWERS AND FRUITS OF VAUGHN HILL

The 187-acre Vaughn Hill Conservation Area exhibits impressive plant diversity, with pine forests, fields, hills, streams, and a beaver pond with a dam and lovely shoreline. One of the highest points between Boston and Mount Wachusett, the summit of Vaughn Hill boasts great views. In early August, flowers are in bloom and ripe fruit weighs down the dewberry vines and blueberry and huckleberry shrubs. This walk will focus on plant identification as well as the fascinating natural history of the area. Bring lunch, a favorite field guide, and a hand lens if you have one.

Wednesday, August 6, 10 a.m.-2 p.m.

Bolton, MA

Course Code: FDT1118

Leaders: Roland "Boot" Boutwell, Naturalist

Fee: \$23 (Members) / \$28 (Nonmembers)

Limit: 16

Credit: Field-FB/Adv.FB



wetlands



EXPLORING WETLAND SHRUBS

With so many wetland habitats, a pond, a stream, and a bog, Garden in the Woods is an excellent field site for examining shrubs that grow in and around wetlands. You will be introduced to 15–20 New England shrubs as well as a handful of shrubs that grow in higher and drier habitats. Please bring lunch, a hand lens and a field guide to shrubs, if you have them.

Thursday, June 26, 10 a.m.-2 p.m.

Garden in the Woods, Framingham, MA

Course Code: WET3019

Leader: Roland “Boot” Boutwell, Naturalist

Fee: \$53 (Member) / \$64 (Nonmember)

Limit: 16

Credit: Elective-FB/Adv.FB

Cosponsor: Massachusetts Association of Conservation Commissioners

BASIC WETLAND ID & DELINEATION

This two-day introductory course provides a foundation in the principal elements of

wetland identification: wetland hydrology, hydric soils, and hydrophytic plants. You will directly participate in field ID, placing a delineation line and utilizing web resources for preparation. Recommended gear includes a field notebook, field guides, soil color charts, an auger (if you already own one), and rain gear. Bring a bag lunch. Extensive handouts are provided and some pre-class reading is required.

Tuesday, July 8, Wednesday, July 9, 9 a.m.-4 p.m.

Garden in the Woods, Framingham, MA, and field sites

Course Code: WET2010

Instructor: Alan Anacheka-Nasemann, ecologist, wetland scientist

Fee: \$169 (Member) / \$203 (Nonmember)

Limit: 12

Credit: Core-Adv.FB; Elective-FB

WETLAND PLANT IDENTIFICATION

Explore a variety of wetland community types, their ecology, and their common indicator species. Following a brief lecture, the class will visit wetland habitats, including a red maple swamp, a floodplain marsh, and a pond. While in the field, you will take advantage of the season by observing ferns, sedges, and various aquatic species, as well as shrubs and trees. Bring a hand lens, lunch, water, and come prepared for wet feet in the field.

Thursday, July 17, 6:30 p.m.-8:30 p.m.

Friday, July 18, 10 a.m.-2 p.m.

Garden in the Woods, Framingham, MA, and field site

Course Code: WET1000

Instructor: Ted Elliman, Senior Botanist, New England Wild Flower Society

Fee: \$66 (Member) / \$80 (Nonmember)

Limit: 12

Credit: Elective-all certificates

Cosponsor: Ecological Landscaping Alliance

children & families

ALL PROGRAMS AT GARDEN IN THE WOODS, FRAMINGHAM, MA

SALAMANDER CELEBRATION

Join our annual celebration of this shy and beautiful woodland creature and learn about the several special kinds of salamander that live at Garden in the Woods—and perhaps your own backyard. You will walk to a vernal pool to look for salamanders and their eggs, then make a salamander craft and an origami jumping frog to take home. Note: This program complements a later program, “Cool Pool Creatures,” offered on April 27. Sign up for both classes and receive a discount (\$15 total for Members; \$20 for Nonmembers).

Sunday, March 23
1:30-3:30 p.m.

Children with Adult Companion

Course Code: FAM3600

Instructor: Tracy Phipps, Naturalist

Fee: \$10 (Member) / \$12 (Nonmember) per person, for each adult and each child

Limit: 24

COOL POOL CREATURES

Ever wonder what happens after spring’s “big night” when the salamanders come out to mate? Join us as we delve deeply into vernal pools and explore the aquatic creatures that call them home. You will wander through the woods to examine vernal pools in person, then use microscopes to observe tiny creatures, including fairy

shrimps and caddisflies. The afternoon concludes with a craft and a snack. Note: This program complements an earlier program, “Salamander Celebration,” offered on March 23. Sign up for both classes and receive a discount (\$15 total for Members; \$20 for Nonmembers).

Sunday, April 27, 1:30-3:30 p.m.

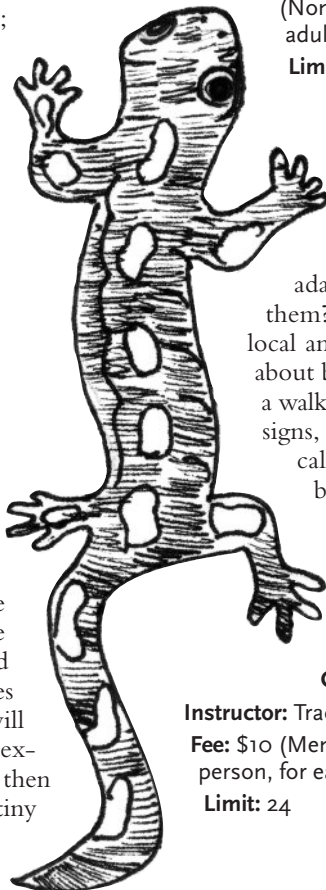
Children with Adult Companion

Course Code: FAM3602

Instructor: Tracy Phipps, Naturalist

Fee: \$10 (Member) / \$12 (Nonmember) per person, for each adult and each child

Limit: 24



WINGED WONDERS

What is a bird? How have these marvelous creatures adapted to the world around them? This fun class covers both local and exotic birds. You will learn about bird beaks, examine nests, take a walk in the woods looking for bird signs, practice some common bird calls, and find a place off the beaten path to design your own “nests.”

Sunday, May 18
1:30-3:30 p.m.

Children with Adult Companion

Course Code: FAM4202

Instructor: Tracy Phipps, Naturalist

Fee: \$10 (Member) / \$12 (Nonmember) per person, for each adult and for each child

Limit: 24

registration

REGISTER BY MAIL

Send completed registration form with your payment to: Registrar, New England Wild Flower Society, 180 Hemenway Road, Framingham, MA 01701. Use a separate copy of the form for each applicant. Please do not mail cash.

REGISTER BY PHONE, FAX, OR ONLINE

We accept Visa or Mastercard

- Call 508-877-7630 ext 3303
- Fax 508-877-3658
- Visit www.newenglandwild.org/learn/adult and go to individual course descriptions to register online.

Registration Form

Name of person filling out form:

Participant's name (if different): Age (if under 18):

Address:

City, State, ZIP:

Email:

Phone: Day Evening

Course code	Course name	Start date	Fee
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I want to join the Society. Please indicate membership level fee here (see inside back cover).

I would like to enroll in the Certificate Program (see page 2). \$30 (This is a one-time fee.)

I would like to make a gift to the Annual Fund

PAYMENT

Total: \$

Check enclosed (payable to New England Wild Flower Society)

Credit card #

Visa MasterCard Exp. date CVC code

Name on card

Billing address (if different from above)

Signature

MEMBERSHIP STATUS & POLICY STATEMENT

I am a current member of New England Wild Flower Society:

Yes, membership # No

I am a current member of (Co-sponsor organization)

I have read and accept the Cancellation & Refund Policy (inside back cover). Yes No

registration information

For registration form, see page 36.

Advance registration is required for all fee-based courses and is accepted on a first-come, first-served basis upon full payment. Upon registration, you will receive a confirmation email, including course locations and any recommended reading and supplies. Early registration is encouraged; programs with insufficient registration may be cancelled three to five business days before the scheduled start date. If your requested course is filled, you will be put on a waiting list and your credit card will not be charged or your check will be returned. When space becomes available, you will be contacted according to your position on the waiting list. **Sorry, we cannot accept walk-in registrations.**

CANCELLATION & REFUND POLICY

SOCIETY CANCELLATIONS, CHANGES & INCLEMENT WEATHER: The Society reserves the right to cancel courses, change times or locations, and substitute instructors. If a class is cancelled by the

Society, you will receive a full refund. In the event of any course change, you will be notified as soon as possible. Courses and field trips run rain or shine. However, in the event of extremely inclement weather, the Registrar or instructor will make every effort to inform you by telephone or email of any change in plans. Please include day and evening phone numbers and your current email address on the registration form.

YOUR CANCELLATION & REFUND: No refunds or transfers can be given for withdrawals within a week of the course start date, from courses already in progress, or for class sessions you have not attended.

EQUAL ACCESS

If you need assistance or special accommodations, please inform the Registrar, 508-877-7630, ext. 3303, at the time you register, or as soon as possible, in order to allow us to make the best efforts to meet your needs.

membership information

Join a Community of Stewards

Members help conserve and promote the region's native plants to ensure healthy, biologically diverse landscapes.

Membership levels

- Individual \$40
- Individual with Garden Access \$55
- Family/Friends \$75
- Contributor \$115
- Supporter \$250
- Sustainer \$500
- Conservation Circle \$1,000+

Membership benefits include:

- 20% discount on education programs throughout New England. **Join when you register for immediate discounts on courses.**

- Priority course registration
- Annual subscription to Society publications
- Monthly member e-newsletter
- Discounts at a wide range of regional and mail order nurseries through our Nursery Partner Program
- Borrowing privileges at our 4,500-volume botanical library (*Individual with Garden Access level and up*)
- Invitations to special, members-only events (*Individual with Garden Access level and up*)

For a full description of member benefits by level, please visit www.newenglandwild.org/membership.

JOIN JOHN BURNS
FOR A SOCIETY-SPONSORED TRIP TO

Madagascar

October 4-19, 2014

Visit the fourth largest island in the world, isolated from the African continent for 30 million years. Madagascar is home to at least 12,000 plants, many of which are endemic to the island. Ninety-five percent of the lemurs and reptiles, eighty percent of the flower plants and more than one hundred birds are found nowhere else.

Tour wildlife reserves on both sides of the island for a contrast of rain forest and semi-arid habitats.

Details at
www.newenglandwild.org/learn/travel



NEW ENGLAND WILD FLOWER SOCIETY

HEADQUARTERS & GARDEN IN THE WOODS

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