

FALL/WINTER 2012


NEW ENGLAND
WILD
FLOWER
SOCIETY



learn+grow

SEPTEMBER 2012 • VOLUME 5, NUMBER 2

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 Now
see pg. 1 for details

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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
Dutchman's-breeches
(*Dicentra cucullaria*)
Photo: Laura McKenna



FROM THE EDUCATION DEPARTMENT

The Society's mission, to conserve and promote the region's native plants to ensure healthy, biologically diverse landscapes, moves forward when we have healthy, biologically literate members and friends.

If you are horticulturally-minded, look for opportunities to study sustainable landscape design, wildflower propagation, or four-season gardening. Our "At the Root" workshops in September offer the chance to gain knowledge and expertise on healthy soils and the latest tools for working with roots and other underground plant considerations. Come along on one of our horticulture and design trips to see native plants in designed settings, including a trip to a world-class garden on an abandoned railway bed in the middle of Manhattan – the High Line. These quiet gardening months ahead offer time for reflection on successes and continuing challenges.

Botanically oriented programs include our core courses on plant form and function, framework trees, and native New England shrubs, as well as wonderful excursions to study rock wall lichens, Thoreau's favorite swamp, a salt march in Rhode Island, and fall and winter mushrooms. Take the opportunity to enjoy the season with studies of winter twigs, "naked" shrubs, and winter bark.

If you have children or grandchildren, consider a chance to celebrate the winter solstice, to follow animal tracks in the snow, or to learn about our local salamanders.

As the back-to-school juices get flowing, join us for some exceptional educational experiences!



Bonnie Drexler
Education Director



Lana Reed
Registrar

Online Course Registration Now Available!

Visit www.newenglandwild.org/learn/adult and go to the individual course pages to register. Look for the "register" button at the bottom of each page.

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Editor: Steven Ziglar

certificate program

ENROLL NOW!

Complete the certificate registration form on page 32 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.

Native Plant Studies

New England Wild Flower Society's Certificate in Native Plant Studies offers dedicated students a comprehensive series of programs in the identification, cultivation, ecology, and conservation of native New England plants. Participants proceed through the program at their own pace.

Students gain a greater appreciation and understanding of native plant habitats, common and rare species, conservation issues, and uses of native plants in horticulture and design. Certificate students engage in ongoing public and private efforts to preserve and restore native New England flora.

We offer four opportunities for concentrated study:

1. Certificate in Field Botany
2. Advanced Certificate in Field Botany
3. Certificate in Native Plant Horticulture and Design
4. 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 program

CERTIFICATE ORIENTATION

Join Bonnie Drexler, Education Director, and certificate program graduates for an illustrated talk that 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. Hear about the structure of the Society's Certificate in Native Plant Studies program and how it can guide your learning. Everyone is welcome at this free presentation. Preregistration is requested, but not required.

Wednesday, October 3, 7-8:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: CER8000

Instructor: Bonnie Drexler, Education Director, New England Wild Flower Society

Fee: Free program

FREE LECTURE

Annual Native Plant Lecture and Certificate Awards

RARE PLANTS OF MASSACHUSETTS

Join Bryan Connolly, Massachusetts State Botanist, to hear the latest news on the Commonwealth's rare plants and how we are meeting the challenge of helping them survive. Bryan is a former member of New England Wild Flower Society's Conservation staff with a unique perspective on our state's 254 vulnerable plant species currently protected by the Massachusetts Endangered Species Act. Bryan shares his history of working with Society staff and volunteers to protect our rare plants.

After the talk, certificates will be awarded to our new graduates in our Certificate Program in Native Plant Studies and refreshments will follow.

Sunday, October 14, 1:30-3:30 p.m.

Garden in the Woods, Framingham, MA

Lecturer: Bryan Connolly, State Botanist for the MA Natural Heritage and Endangered Species Program

Course Code: LEC1019

Call Lana Reed to preregister,
508-877-7630 x3303



horticulture & gardening

AT THE ROOT

Garden in the Woods

Fee per day: \$75 (Member) / \$90 (Nonmember) includes lunch

Credit: Core-Adv.HD/Elective HD

CEU's being sought for these programs

Cosponsor: Ecological Landscaping Association

AIR TOOLS WORKSHOP

Thursday, September 27, 8:30 a.m.-3:30 p.m.

Rain date: Friday, September 28, 8:30-3:30 p.m.

Course Code: HOR3018

Referred to by many names, pneumatic soil excavation has come a long way since its introduction. There are a variety of tools on the market including the Super Sonic Air Knife and the Air Spade. Before these tools became widely available, addressing tree problems was accomplished slowly, by hand digging. As pneumatic soil excavation tools have become more accessible and reliable, professionals are finding more and more applications for their use.

Join this all-day workshop to explore how quickly and effectively you can use air tools

to access the roots to identify and successfully address problems. The air tools demonstrations* will feature soil compaction; trenching for irrigation, fencing, and more; proper planting of ball & burlap and container nursery stock; bare root tree transplanting; and locating roots to establish tree protection zones prior to construction.

* Please bring eye and ear protection for the demonstration areas.

Instructors:

Rolf Briggs, certified arborist, founder, Tree Specialist, Inc., consultant and educator

Matt Foti, certified arborist, founder, Matt Foti Landscape and Tree Service, featured arborist on WGBH *This Old House* for 24 years.



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UNDERSTANDING AND MANAGING HEALTHY SOILS

Saturday, September 29, 8:30-3:30 p.m.

Course Code: HOR3904

Healthy soil is the basis of healthy plant communities – join us for this in-depth, full-day workshop to learn how to manage healthy soil. Understand the chemical, physical and structural aspects of soil and the variations in compost, organic matter, soil amendments and their successful use. See and feel samples of different soils. Learn about the various types of soil testing available and how to understand and make the best use of the tests. Visit demonstration sites at Garden in the Woods to witness the effects of compost tea applications for mildew, fungi and overall plant health.

In the afternoon, we delve deeper into the intricacies of soil biology, discussing the soil food web and compost tea. See various types of equipment, and learn composting tips and techniques on site. Make use of microscopes and see additional soil demonstrations in the Garden.

Instructors:

Peter Schmidt, certified arborist, Certified Soil Foodweb Advisor and founding partner of Compostwerks LLC, with 26 years in the horticulture, composting, agriculture and organics industries.

Dawn Pettinelli, Extension Instructor in the Department of Plant Science at University of Connecticut, manager of the Home and Garden Education Center and the Soil Nutrient Analysis Laboratory.



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SUSTAINABLE LANDSCAPE DESIGN

What makes a landscape design sustainable? This two-part seminar is for people interested in learning how to design landscapes that follow an ecological paradigm, and that enhance a site's beauty and utility. Landscape Architect and LEED Accredited Professional Tom Benjamin will define and discuss principles of sustainable landscape design, techniques to improve the ecological and human functions of existing landscapes, and how to approach sites with a variety of challenges. Discussion will include sustainable measures to improve your own projects, as well as a short trip to a nearby site that was designed for sustainability. Bring a bag lunch.

Thursday, Friday, October 18, 19, 9 a.m.-4 p.m.

Garden in the Woods, Framingham, MA and local site

Course Code: HOR4500

Instructor: Thomas S. Benjamin, RLA, LEED-AP BD+C, Principal, wellnesscapes.com

Fee: \$216 (Member) / \$254 (Nonmember)

Limit: 16

Credit: Core-Adv. HD/Elective-HD

Cosponsor: Ecological Landscaping Association

ECOLOGICAL LANDSCAPING TECHNIQUES

Decisions we make in our gardens today can have large impacts on the landscapes of tomorrow. How do we ensure the long term sustainability of our backyards, business parks and public spaces? Identify and address these potential problems by taking a comprehensive look at the landscape through the eyes of designers, horticulturalists and



botanists. Receive hands-on training in soil health and composting, plant ID and selection, storm water management and organic techniques — all filtered through the concepts of modern design. Bring a bag lunch.

**Mondays, October 22, 29, 10 a.m.-3 p.m.,
November 5, 10 a.m.-2 p.m.**

Garden in the Woods, Framingham, MA

Course Code: HOR3700

Instructors: Horticulture Staff, New England Wild Flower Society

Fee: \$216 (Member) / \$254 (Nonmember)

Limit: 16

Credit: Core-Adv. HD/Elective-HD

horticulture & gardening

PRUNING FUNDAMENTALS

Proper pruning improves both the health and structure of woody plants and allows the gardener to influence the aesthetic qualities of trees and shrubs. This workshop covers pruning methods for established plantings in the home landscape. Learn how to select basic tools, make a proper cut, determine which branches to cut, and know the correct time to prune for different species. Bring hand pruners to try various cuts at a local site nearby.

Saturday, November 10, 9:30 a.m.-12:30 p.m.

Garden in the Woods, Framingham, MA and local site

Instructor: Dave Ropes, Tree Specialists, Inc.

Course Code: HOR3120

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

Limit: 16

Credit: Elective-HD/Adv. HD

BOTANY AND PROPAGATION FOR THE HOME GARDENER

Why do plants turn yellow? What causes plants to send out suckers when the leader is removed? How can we clone plants by simply taking cuttings? Explore the answers to these and similar questions as we learn the botany behind plant growth and behavior. Our focus is on the practical aspects of botany as it relates to growing and propagating.

Wednesday, November 14, 10 a.m.-12 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR3302

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

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

Limit: 16

Credit: Elective-all certificates

Cosponsor: MA Audubon, Drumlin Farm



horticulture & gardening



ings, useful for both personal and professional work. Leave inspired and renewed with fresh ideas to develop further. No experience necessary, suitable for published authors as well as the perpetually curious.

Saturday, November 17, 10 a.m.-12 p.m.

Nasami Farm, Whately, MA

Instructor: Erica Wheeler, educator, singer/songwriter

Course Code: HOR7001

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

Limit: 30

Credit: Elective-all certificates

WILDFLOWER PROPAGATION II

Learn tips for raising wildflowers from seed, allowing access to an astonishing variety of species not often seen in garden centers or nurseries. Develop a deeper appreciation of plant physiology and evolution. Discuss seed physiology and ecology as well as the various techniques used to germinate and grow a wide variety of native species, including such challenging genera as *Trillium*. Discuss seed and spore collection and storage. Clean and sow a variety of seed to take home and grow. All materials provided. Bring a bag lunch.

Instructor: Kate Pawling, Plant Propagator, New England Wild Flower Society

Fee: \$62 (Member) / \$73 (Nonmember)

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

Choose one of two sections:

Saturday, December 1, 10 a.m.-2 p.m.

Nasami Farm, Whately, MA

Course Code: HOR3203

Tuesday, December 4, 10 a.m.-2 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR3201

SENSE OF PLACE: WRITING WORKSHOP

According to author and scientist Stephen Jay Gould, “We cannot win this battle to save species and environments without forging an emotional bond between ourselves and nature as well—for we will not fight to save what we do not love.”

Discover your “sense of place” stories, unlock your creative voice, and learn Erica’s three-part writing process that connects your inner and outer landscapes. Bridge your personal experiences and reflections with nature, history and culture. Gain skills, ideas, and writ-

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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 two elements of design become a dynamic duo for the savvy garden maker. This design studio provides a hands-on opportunity for you to design a small to mid-sized garden area. Bring your design project, plant ideas and area measurements. We'll start our workshop with some design fundamentals and move quickly into creating powerful combinations.

Saturday, January 12, 9:30 a.m.-2:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR1531

Instructor: Cheryl Salatino, designer and horticulturalist

Fee: \$77 (Member) / \$92 (Nonmember)

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

Cosponsor: The Landscape Institute

NATIVE PLANTS FOR FOUR-SEASON GARDENING

By carefully choosing trees, shrubs and perennials, we can have something of interest even in the coldest winter months! Wandflower, *Galax urceolata*, with its glossy foliage and rich green American holly, *Ilex opaca*, are just a couple of the plants that brighten the garden throughout the year. Don't underestimate the charms of decorative bark, evergreen foliage, fruits, dried leaves, and flower stalks with a dusting of snow. Learn about some of the best native species, with an emphasis on fall and winter interest, and discuss design to ensure that your garden framework works well in the "off-season" as well as at the peak of bloom.

Instructor: Laura Eisener, landscape designer, Laura D. Eisener Landscape Design

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

Limit: 16 **Credit:** Elective: all certificates

Choose from one of two sections:

Tuesday, January 29, 6-8 p.m.

Cambridge, MA

Course Code: HOR1538

Cosponsor: Cambridge Center for Adult Education

Monday, February 4, 6:30-8:30 p.m.

Bristol, RI

Course Code: HOR1520

Cosponsor: Blithewold, Rhode Island Wild Plant Society



horticulture & gardening



EASING INTO ECOLOGICAL DESIGN

Learn about landscape elements that can improve habitat, cleanse runoff, and save energy. Explore ways these elements can complement and enliven the home landscape. Examine the structure of native plant communities and the patterns that arise from natural processes. Encounter inviting and immersive landscapes that bring people into memorable contact with nature yet fit gracefully in an urban or suburban setting. Along the way, discover design strategies that anyone, from a beginner to an experienced designer, can use to create places that are appealing, engaging, and alive.

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

Garden in the Woods, Framingham, MA

Course Code: HOR1523

Instructor: Tobias Wolf, principal, Wolf Landscape Architecture

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

Limit: 20 **Credit:** Elective-HD/Adv. HD

Cosponsor: Cambridge Center for Adult Education, The Landscape Institute

RESIDENTIAL LANDSCAPE DESIGN

In this multi-session course appropriate for beginners, learn different aspects of the landscape design process with special emphasis on native plants in the residential landscape. Workshop sessions focus on design methods using site-analysis techniques and schematic design tools. Consulting with the instructor, work on a project of your own choosing. Interspersed with design work, lectures focus on plants and habitats, including information on plant choice and placement in the landscape. A list of required materials will be discussed at the first class.

Choose one of two sections:

Fee: \$209 (Member) / \$259 (Nonmember)

Limit: 12 **Credit:** Core-HD

**Tuesdays, February 5, 12, 19, 26,
March 5, 12, 19, 5:45-7:45 p.m.**

Cambridge, MA

Course Code: HOR4002

Instructor: Karen Sebastian, principal, Karen Sebastian, LLC, Landscape Architecture

Cosponsor: Cambridge Center for Adult Education

**Tuesdays, February 26, March 5, 12, 19, 26,
April 2, 9, 7:00-9:15 p.m.**

Garden in the Woods, Framingham, MA

Course Code: HOR4000

Instructor: Laura Eisener, principal, Laura D. Eisener Landscape Design

horticulture & gardening



Burning bush (*Euonymus alatus*)



Highbush blueberry (*Vaccinium corymbosum*)

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 provide the right plant for 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, extra coddling on your part. Create a low maintenance garden that actively supports the environment and provides beauty for all— people and pollinators alike.

Tuesday, February 5, 10 a.m.-12 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR4023

Instructor: Dan Jaffe, Propagator & Stockbed Grower, New England Wild Flower Society

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

Limit: 20 **Credit:** Elective-all certificates

Cosponsor: Ecological Landscaping Association

WHY GROW THAT WHEN YOU CAN GROW THIS?

Tired of fussy, invasive, or boring plants that require excess care or just plain bring your garden down? Andrew Keys, author of *Why Grow That When You Can Grow This?*, discusses native alternatives that are sexier and more sustainable than everyday problem plants. Why grow invasive burning bush for its one season of interest when you could grow native blueberry, a multi-season star? Isn't it time to replace boring, weedy Vinca with something native and more dynamic, like 'Gro-Lo' sumac? Book sales and signing follow the program.

Tuesday, February 12, 10 a.m.-12 p.m.

Garden in the Woods, Framingham, MA

Course Code:

HOR2114

Instructor: Andrew Keys, author and designer

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

Limit: 16

Credit: Elective-
HD/Adv. HD

Cosponsor: Ecological Landscaping Association



horticulture & gardening

BONES OF THE GARDEN: STRENGTHENING THE DESIGN

Every memorable landscape has one thing in common – strong “bones.” The placement of trees and shrubs creates form, directs movement, and organizes the garden. Learn to select, situate, and integrate these stately elements into the cultivated landscape. Explore the concepts of scale, creating space and the impact of plant growth over time in locating structural elements. Using your new knowledge, develop your own site-specific design. Receive feedback on designs and plant combinations. During the final session, inspect the “bones” of Garden in the Woods with a late winter walk.

Monday, February 25, Wednesday, February 27, 6:30-9:00 p.m., Saturday, March 2, 9:30 a.m.-1:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR4223

Instructor: Cheryl Salatino, designer and horticulturist

Fee: \$132 (Member) / \$160 (Nonmember)

Limit: 16 **Credit:** Core-Adv. HD; Elective-HD

Cosponsor: The Landscape Institute

KNOWING OUR WILD EDIBLES: FINDING, GROWING, EATING

Whether you're interested in your health, sustainability, or simple pleasure, knowing your wild edibles is a skill worth cultivating. From wild broccoli to cucumber root — wild edibles are around us everywhere. Explore some of the best wild edibles for foraging and cultivating in this seminar, focus on specific species as well as harvest and preparation techniques. Sustainable practices will be stressed.

Wednesday, March 13, 10 a.m.-12 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR6019

Instructor: Dan Jaffe, Propagator & Stockbed Grower, New England Wild Flower Society

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

Limit: 16

Credit: Elective-all certificates

Cosponsor: MA Audubon Drumlin Farm



horticulture and design trips



SECRET GARDEN IN SUDBURY

Through a white picket fence, discover an enchanting series of spaces, each with a different theme and focus. The Secret Garden is a quiet shady retreat with a focus on foliage and texture, planted with a mix of native and non-natives, including ferns, viburnums, hydrangeas and boxwoods. The terrace garden is a hub of family activity with an outdoor kitchen and dining area. The wide joints between the irregular blue-stone paving stones are planted with a variety of thymes, sagina, and sedums. Stone seating walls surround a raised central bed and the raised stone vegetable garden with a pergola. The Children's Play Area is a "woodland adventure trail" with a stepping stone path, swings, a slide, and even a tree house. We will carpool from Garden in the Woods at 10 a.m.

Thursday, September 20, 10 a.m.-2 p.m.

Sudbury, MA

Course Code: HDT1023

Instructor: Karen Sebastian, principal, Karen Sebastian, LLC, Landscape Architecture

Fee: \$24 (Member) / \$28 (Non-member)

Limit: 20 **Credit:** Field-HD or Adv. HD

FALL IN THE GARDEN

Visit a magnificent garden that has been planted for maximum fall interest. Be introduced to a variety of established native shrubs that provide alluring fall color and migratory bird forage. Learn about perennials that come into their own in the fall and annuals that are worth the wait. Discuss planting techniques, preparation for winter, and methods to divide perennials and propagate shrubs. This combination garden walk and gardening workshop is set in a beautiful two-acre garden that includes a native plant woodland, a large vegetable garden and orchard, and diverse perennial beds.

Sunday, September 30, 2-4 p.m.

Lincoln, MA

Course Code: HDT1028

Leader: Robin Wilkerson, gardener extraordinaire

Fee: \$24 (Member) / \$28 (Nonmember)

Limit: 20

Credit: Field-HD/Adv.HD



horticulture and design trips

HIGH LINE

Join us for a day trip to the remarkable High Line in New York City. The garden is built on a formerly abandoned mile and a half of elevated railroad line. Both the hardscape and the plant material are informed by the structure's history as a rail bed. Native oaks, sassafras, sumacs, and an array of ornamental grasses are just a few of the plants that one rarely encounters in public gardens, but are among many of the outstanding plant



choices. A High Line docent will lead a tour of the garden and there will be time for lunch and exploration on our own. Don't miss this chance to see and experience what has quickly become one of the world's great urban wonders.

Wednesday, October 3, 7:30 a.m.-7:30 p.m.

Registration deadline: September 19

New York, New York

Bus departs Garden in the Woods, Framingham, MA at 7:30 a.m.

Returning at 7:30 p.m.

Course Code: HDT800g

Leader: Robin Wilkerson, gardener extraordinaire

Fee: \$120 (Member) / \$145 (Nonmember)

Fee includes private coach with restroom, snacks, box lunch, guided tour

Credit: Field-HD/Adv. HD

Cosponsors: Friends of Wellesley College Botanic Gardens, Arnold Arboretum of Harvard University

AUTUMN BEAUTIES: HABITAT GARDENS IN ACTON, MA

Fall offers a long season of changing colors in the garden. Join this tour of several gardens designed by Dori Smith primarily with native plants to please birds and butterflies, as well as her clients. Visit unique and colorful habitats including mature rain gardens; native prairie meadows; a sunny streetside gardenscape where delightful native plantings have replaced lawn; and a lush backyard, featuring a creative fieldstone patio enjoyed by

the family and a fountain that attracts birds daily. You are welcome to tour the Acton Arboretum before or after the garden tour. Eligible for NOFA Organic Land Care re-accreditation credits.

Saturday, October 27, 1:00-3:30 p.m.

Acton, MA

Course Code: HDT1024

Instructor: Dori Smith, landscape designer, owner/Gardens for Life

Fee: \$30 (Member) / \$34 (Non-member)

Limit: 20 **Credit:** Field-HD or Adv. HD

botany & conservation



NATIVE NEW ENGLAND SHRUBS

The many species of native New England shrubs display a wide variation in size, shape, color, and in characteristics of their bark, flowers, and fruits. This course introduces students to about 50 species growing in this region. Learn identification and become familiar with family characteristics and historic uses. Bring a hand lens to each session. Field sessions held in locations off-site with directions provided during the first class.

**Wednesdays, September 5, 12, 19,
6:30-8:45 p.m., Sundays, September 9, 16,
9:00 a.m.-1:30 p.m.**

Garden in the Woods, Framingham, MA and field sites

Course Code: BOT3301

Instructor: Roland "Boot" Boutwell, naturalist

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

Limit: 16

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

PLANT FORM AND FUNCTION

This course, formerly known as "Basic Botany," provides an introduction to general plant anatomy and physiology. Students are introduced to the plant kingdom through slides and live materials. Microscopic study allows for 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 20, 27, October 11, 18,
25, November 1, 6:30-9 p.m.**

Bentley University, Waltham, MA

Course Code: BOT1000

Instructor: Dr. Nancy Eyster-Smith, botanist

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

Limit: 16

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

WILDFLOWERS IN FALL

As a follow-up to our spring course, "Wildflowers of New England," this class highlights flora in the last stages of the growing season. What fruits have been produced by spring wildflowers and how are they dispersed? What flowers are blooming in the fall and why? Which pollinators are active? The program includes a walk in Garden in the Woods, a power-point presentation to illustrate the key points, and samples for dissection and close observation. References for fruits and winter ID provided. Bring *Newcomb's Wildflower Guide* and a 10x hand lens.

Tuesday, September 25, 10 a.m.-1 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT3009

Instructor: Dr. Neela de Zoysa, author and botanist

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

Limit: 16

Credit: Elective-all certificates

botany & conservation

FRAMEWORK TREES OF NEW ENGLAND

Trees are the dominant plant type of New England with forests covering most of the land area. This survey course addresses identification and natural history of individual species as well as forest ecology. Since understanding today's forests requires familiarity with their history, we review the changing landscape from the Ice Age through European settlement. Students learn to identify native New England trees and their habitats, to recognize different aged stands (pioneer, second growth, and other growth) and become familiar with forest communities of the northeastern temperate region. Consider the natural conditions and human disturbance factors that produce different forest associations. Weekend field trips take us to a variety of forest types off-site. Bring a bag lunch and water for the field trips.

**Tuesdays, October 2, 9, 16, 23, 6:30-8:30 p.m.,
Saturdays, October 13, 12-4 p.m., October 20,
9 a.m.-1 p.m.**

Garden in the Woods, Framingham, MA, and off-site locations

Course Code: BOT3200

Instructor: Karen Sebastian, principal, Karen Sebastian, LLC, Landscape Architecture

Fee: \$231 (Member) / \$277 (Nonmember)

Limit: 16

Credit: Core-FB; Elective-all certificates



INVASIVE PLANTS: ISSUES, IDENTIFICATION, AND ECOLOGY

What's all the fuss? Invasive plant species have been getting a lot of bad lip service from botany, ecology, horticulture, and conservation professionals alike. Learn the basic ecological problems surrounding these aggressive and tenacious plants. Hear about the complicated (and sometimes political) issues surrounding invasive plant species, including the process by which a plant becomes labeled "invasive." Meet some of New England's most common invasive species through images, specimens and short local field visits. Bring a lunch, hand lens, water, and warm clothes to go afield for short forays.

Friday, Saturday, October 12, 13, 10 a.m.-4 p.m.

Boothbay, ME and local field destinations

Course Code: BOT5125

Instructor: Ted Elliman, Vegetation Management Coordinator, New England Wild Flower Society

Fee: \$100 (Member) / \$120 (Nonmember)

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

Sponsor: Coastal Maine Botanical Gardens

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NATURE OF NEW ENGLAND

From wild forests and marshes to farms, towns, and cities, wild animals and plants can be found in amazing diversity if we make ourselves aware. Kenn and Kimberly Kaufman learned that for themselves when they set out to research their new guide to New England's natural history. *The Kaufman Field Guide to Nature of New England* includes sections on wildflowers, trees, birds, fish, fungi, ferns and even the night sky. Hear of their favorite adventures, enjoy their favorite photos, and learn about the endless potential to make your own personal discoveries about nature. Book sales and signing follow the program.

Tuesday, October 16, 12:00-1:30 p.m.

*Brown bag lunch at noon,
program at 12:30 p.m.*

Garden in the Woods, Framingham, MA

Course Code: LEC1020

Instructors: Kenn and Kimberly Kaufman,
authors and naturalists

Fee: free lecture

MUSHROOMS IN THE FALL

Puffball, sweet tooth, splash cup, swamp beacon – these are just a few of the mushroom species you might encounter while walking the New England landscape. Mycologist Lawrence Millman explains why fungi are so important to virtually every environment and speaks about his new book *Fascinating Fungi of New England*. Then he leads a fungal foray on the grounds of Garden in the Woods. Please note that this event focuses on ecology, not edibility! Book sales and a book signing will follow the program.

Wednesday, October 17, 1:00-3:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT3812

Instructor: Lawrence Millman, mycologist,
author

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

Limit: 20

botany & conservation



BARK FOR BEGINNERS

Have you ever looked at a tree in winter and wondered what it might be? For nearly half the year, bark provides the best clue to tree ID. Become familiar with the characteristic bark of common trees in different stages of growth—a further challenge!

Easy-to-use field guides to bark and buds will help in this fun learning experience.

Bring binoculars, warm clothes in layers, lunch, warm boots, and either of these 2 books: *Bark* by Michael Wojtech or *The Tree Identification Book* by George Symonds.

Instructor: Nancy Goodman, naturalist

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

Credit: Elective-all certificates

Limit: 16

Choose one of two sections:

Saturday, October 20, 10 a.m.-2 p.m.

Mount Sugarloaf, South Deerfield MA

Course Code: BOT3216

Cosponsor: Hitchcock Center for the Environment

Saturday, October 27, 10 a.m.-2 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT3217

Cosponsor: MA Audubon, Drumlin Farm

NATIVE PLANTS FOR THE RAMBLER

Are you one who enjoys exploring the New England landscape – its woodlands, meadows, mountains and wetlands, i.e. a Rambler? The pleasures of rambling can be enhanced by gaining familiarity with the native plants which you may encounter. How many of us can recognize Massachusetts' state flower if we see the plant out of bloom? Enrich your year-round ramblings with knowledge of approximately 60 perennials, shrubs and trees native to New England, presented in this entertaining and engaging program.

Saturday, October 20, 10 a.m.-12:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT1205

Instructor: Al Levin, photographer and naturalist

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

Limit: 16 **Credit:** Elective: all certificates



botany & conservation

NATURALLY CURIOUS

Meet the engaging author of *Naturally Curious, A Photographic Field Guide and Month-by-Month Journey through the Fields, Woods, and Marshes of New England* and with her inspiration get started on your own journey of discovery. An accomplished photographer and naturalist, Mary Holland guides you through a selection of each month's most memorable natural events with information and images of native plants and wildlife, beginning in March when the earth awakens and ending in February at the end of year's cycle. After the presentation, examine the accompanying collection of skulls, scat, feather, horns, antlers and more. Books will be available for sale and signing.

Saturday, November 3, 10:00-11:30 a.m.

Garden in the Woods, Framingham, MA

Course Code: LEC1021

Instructor: Mary Holland, author, environmental educator

Fee: \$10 (Member) / \$15 (Nonmember)

Cosponsors: MA Audubon, Drumlin Farm; Arnold Arboretum of Harvard University, Friends of Wellesley College Botanic Gardens



ROCK WALL LICHENS

Throughout New England, various forms and colors of lichens lend rock walls their aged and weathered appearance. This introductory course aims to increase appreciation for and understanding of the lichen diversity on rock walls and the role they play in the weathering of rocks. Use stereoscopes and diagnostic chemical spot tests to study the different features, growth forms and chemistry of common rock wall lichens. Then travel to a local field site to participate in a lichen inventory. Bring a 10x hand lens, lunch, and dress for the weather.

Saturday, November 17, 9:30 a.m.-3 p.m.

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

Course Code: BOT3604

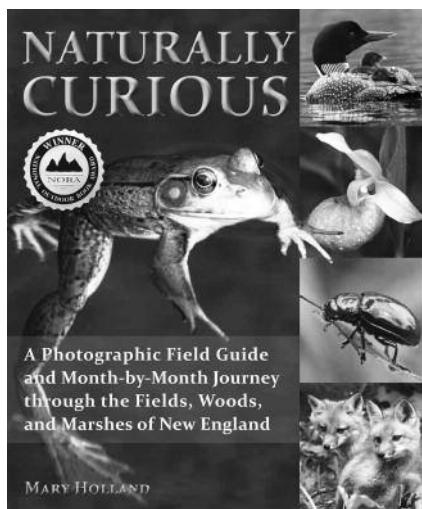
Instructor: Elizabeth Kneiper, lichenologist

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

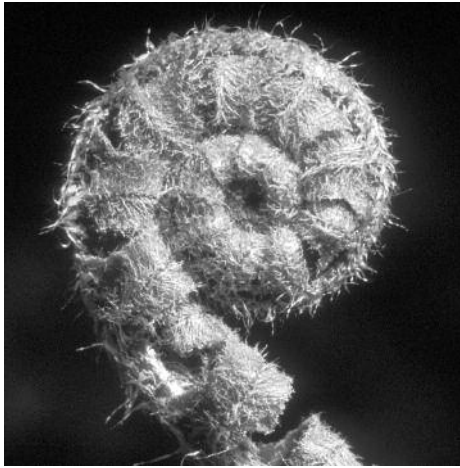
Limit: 16

Credit: Elective-FB/Adv.FB

Cosponsor: MA Audubon Drumlin Farm



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GEOLOGY, SOIL, AND PLANTS

The face of New England's natural communities is a result of its eventful past. Using maps to tell the story, John Burns carries us from the prehistoric world of Pangaea, through a few chilly periods of glaciation, safely to the modern world. See how the distribution of basic bedrock and soil types in New England influence the substrate's chemistry and thus the plant profiles and communities of the region. Understand how the reshaping of the land has had its own influence on the temperatures, moisture, and hydrology of the region. Enrich your understanding of many ecological fields of study while enlivening your field experience. Better predict the location of particular communities. Recognize plant associations and how they reflect the substrate to envision a landscape before you arrive.

Wednesday, November 28, 7-9 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT1100

Instructor: John Burns, Plant Conservation Volunteer Coordinator, New England Wild Flower Society

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

Limit: 16 **Credit:** Elective-all certificates

FREE LECTURE

AUDIO ECOLOGY: ACOUSTIC SIGNALS IN INSECTS

What do birds, frogs, mammals, and insects have in common? It may be the acoustic signals produced by these animals for mating and territory defense. Brian Farrell and Harvard University undergraduates are exploring the ecology of acoustic communities. Their studies integrate evolutionary and community ecology with conservation and human biology, including the evolution of music, our own acoustic signal. Listen in with Brian to learn some of ways that insects communicate and the likely reasons for the din.

Thursday, November 29, 7:00-8:30 p.m.

Arnold Arboretum, Jamaica Plain, MA

Course Code: LEC1024

Instructor: Brian D. Farrell, Department of Organismic and Evolutionary Biology, Harvard University

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



botany & conservation

SHRUBS IN WINTER

When leaves are nearly gone from most shrubs, but you can still learn to recognize them. In this class, we focus on a number of macro-characteristics such as branching patterns, growth habits, bark, persistent fruit, galls, and habitats to help us identify more than 20 native New England shrubs in late fall and winter. We also discuss the natural history of the shrubs we see. The program begins with a classroom session and then moves into the field. Look for such species as witch-hazel (*Hamamelis virginiana*), highbush blueberry (*Vaccinium corymbosum*), and, of course, winterberry (*Ilex verticillata*) and wintergreen (*Gaultheria procumbens*). Bring a bag lunch and a hand lens.

Saturday, December 8, 10 a.m.-2:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT3312

Instructor: Roland "Boot" Boutwell, naturalist

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

Limit: 16 **Credit:** Elective-all certificates

FREE LECTURE

ANTS AND YOUR PLANTS

Ants are the little things that run around your backyard and that run the world. Without ants, plants would not grow as well as they do; ants turn over soil, disperse seeds, and perform many other ecological services. Join two of the authors of the new *Field Guide to the Ants of New England* for a presentation about ants in New England gardens, fields, and forests, and learn more about how important ants are in the world around us. Book sales and signing will follow the program.

Sunday, December 2, 1:30-3:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: LEC1022

Instructors: Aaron Ellison, Senior Ecologist, Harvard Forest and Elizabeth Farnsworth, Senior Research Ecologist, New England Wild Flower Society



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PLANT SYSTEMATICS MODULE 2

This second of five Plant Systematics modules examines Tracheophyte families, starting with free-sporing plants (i.e., ferns and fern allies), and ending with three major groups of seed plants: non-flowering seed plants (i.e., conifers); *Magnoliids* (i.e., primitive dicots); and Monocots. With text and images, the talk describes critical characters for family-level identification and for representative genera in New England. The course will focus on modern taxonomy and family arrangements, as set forth by Judd et al., *Plant Systematics: A Phylogenetic Approach*.

Sunday, January 27, 1-4 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT2230

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

Fee: \$46 (Member) / \$54 (Nonmember)

Limit: 20

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

WINTER TWIG IDENTIFICATION

Discover ways to identify woody plants in the winter by their twigs. The characteristics seen on twigs provide powerful clues to a plant's identity. Our observations will also include organs that remain on the plant in the winter such as leaves, buds, dried fruit, and bark. We start in the classroom with color images, guided keying of specimens, and then take a field walk to round out the day. Bring a lunch and clothes appropriate for being outside in winter weather (snowshoes will not be necessary).

Saturday, February 2, 10 a.m.-2 p.m.

Norwich, VT

Course Code: BOT3318

Instructor: Brett Engstrom, botanist

Fee: \$46 (Member) / \$56 (Nonmember)

Limit: 16 **Credit:** Elective-all certificates

Cosponsor: Montshire Museum of Science

WINTER BOTANY

This course includes a classroom lecture on the taxonomic characteristics of trees, shrubs, and herbaceous and evergreen plants in winter, including hands-on identification of twig and plant specimens, followed by a walk around Garden in the Woods to put your classroom knowledge to work. Learn the significance of macro and micro characteristics including growth habit, bud morphology, phyllotaxy, leaf and bundle scars, floral patterns and fruits. Acquire experience with an extensive array of classroom specimens and field identification of woody plants. Gain confidence using a key to identify unknown specimens, whether you are a beginning or experienced botanist. The program provides lecture notes and twig samples to take home. Bring a hand lens and bag lunch and dress for the weather.

Saturday, February 9, 9:30 a.m.-3:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT3317

Instructor: Dr. William Kuriger, botanist

Fee: \$80 (Member) / \$96 (Nonmember)

Limit: 16 **Credit:** Elective-all certificates



botany & conservation

GATHERING AND PREPARING ACORNS FOR FOOD

The fruit of the oak tree has been used as an important staple by aboriginal people across North America. The people of each region had their preferred species and detailed methods of collecting, storing, and processing the acorns for use in different types of dishes. Given their nutritional profile and ability to be stored for long periods, acorns make a wonderful wild food that can be enjoyed throughout the year. Further, New England is blessed with a number of oak species that produce large acorns. This class teaches students how to properly gather acorns in order to avoid those in poor condition and demonstrates different methods of preparing them for food (primitive and contemporary methods will be demonstrated). Discussion during the day includes some life-history strategies of the oaks relevant to foragers and some important myths found in wild food literature. Fresh baked acorn-flour bread will be enjoyed at the end of the class.

Sunday, February 24, 12-4 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT7027

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

Fee: \$66 (Member) / \$80 (Non-member)

Limit: 10

Credit: Elective-all certificates



LATE WINTER MUSHROOMS

Join mycologist Lawrence Millman to discover what fungi can be found in New England at the end of winter. Learn about survival strategies of these species, then walk through Garden in the Woods in search of some of them. The underside of a log is the equivalent of a nice cozy chair in front of the fire for many fungi. Copies of the instructor's new book, *Fascinating Fungi of New England*, will be available for purchase.

Saturday, March 16, 1:00-3:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT3813

Leader: Lawrence Millman, mycologist and author

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

Limit: 16

Credit: Elective-FB/Adv.FB

field trips

BLACK MOUNTAIN

Despite its low elevation of 2800 feet, Black Mountain provides spectacular views of Moosilauke and Long Pond to the east. Due to historical wildfires in the area, the summit and adjacent ledges are bald and support a unique assemblage of plants. We begin our hike on the Chippewa Trail and pass through private Society for the Protection of NH Forests, State of NH lands and ultimately reach the summit on the White Mountain National Forest. Hike through natural communities which include red pine forests, red pine rocky ridge, and red spruce-heath-cinquefoil ridge. We summit at an old fire tower atop Black Mountain. This moderate hike of 3.6 miles is timed for the peak of the foliage season. There are some steep sections of the trail, so participants should have sturdy hiking shoes, strong legs, and a good sense of balance. Bring a bag lunch and water.

Saturday, September 22, 10 a.m.-3 p.m.

Benton, NH

Course Code: FDT4041

Leader: Chris Mattrick, Botanist, White Mountain National Forest, NH

Fee: \$47 (Member) / \$58 (Nonmember)

Limit: 15 **Credit:** Field-FB/Adv.FB

SALT AND SAND – SUCCOTASH SALT MARSH & ENVIRONS

Join ecologist Keith Killingbeck for a foray into and around southern Rhode Island's Succotash Salt Marsh. In addition to identifying the salt-tolerant plants that grow there and discussing their ecology, botanize along a sandy beach adjacent to the marsh. The birds that frequent this marsh, especially the migrants at this time of year, add to the species richness we encounter. Geographically, this trip has a decidedly Middle East flavor given that we traipse through Jerusalem while gazing across saltwater to Galilee. Please be advised that learning to walk across the water to Galilee is beyond the scope of this gathering.

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

Succotash Salt Marsh, Jerusalem, RI

Course Code: FDT7040

Leader: Keith T. Killingbeck, Ph.D., ecologist, University of Rhode Island

Fee: \$16 (Member) / \$20 (Nonmember)

Limit: 16

Cosponsor: Rhode Island Wild Plant Society



field trips

WILD EDIBLE, MEDICINAL, AND POISONOUS PLANTS

Can someone really become immune to poison ivy after drinking milk produced by a goat that has eaten that plant? What did young Quaker women use for rouge when their parents forbade them from wearing makeup? Which has more vitamin C—a glass of orange juice or a glass of pine needle tea? Following a slide show, take a walk to share colonial and Native American folklore and information to learn about the myths and realities concerning the use of wild edible, medicinal, and poisonous plants, sampling many of the more delectable treats.

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

The Fells, Newbury, NH

Course Code: FDT4042

Leader: Michael Caduto, naturalist and author

Fee: \$10 (Member) / \$12 (Nonmember)

Limit: 16

Cosponsor: The Fells



EAGLE CLIFF

Join us for a short hike with long spectacular views above the eastern shore of Squam Lake. Climb from a wet area, possibly with closed gentians, asters and goldenrods, up to a mixed woodland, rich with ferns, mosses, and fungi. On the dry cliffs above, look for red and pitch pine, salaginella and rusty woodsia. The small granite balds on the top of the cliffs offer a nice assortment of plants for investigation. Enjoy lunch overlooking Squam Lake, the Sandwich Range, and hopefully incredible fall foliage. Wear sturdy footwear for this moderate hike with some steep rocky areas. Bring lunch, water, field guides, bug repellent and a hand lens.

Sunday, September 23, 10 a.m.-12 p.m.

Sandwich, NH

Course Code: FDT4043

Leader: Nancy Goodman, naturalist

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

Limit: 15

Credit: Field-FB/Adv.FB

field trips



PONEMAH BOG

The centerpiece of a 75-acre sanctuary in southern New Hampshire, Ponemah Bog is less than an hour's drive from Boston. At the center of the property lies a three-acre kettle hole pond, encircled by a floating mass of sphagnum moss. The pond and bog are easily accessible by a boardwalk which includes spur trails to four viewing platforms. Fall is a beautiful time of year in a bog and we expect to see a host of plants, including pitcher plants, sundews, tamaracks and cotton grass. Bring a bag lunch and a hand lens if you have one.

Wednesday, October 10, 10 a.m.-2 p.m.

Amherst, NH

Course Code: FDT1092

Leader: Roland "Boot" Boutwell, naturalist

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

Limit: 10 **Credit:** Field-FB/Adv.FB

GOWING'S SWAMP AND THOREAU'S BOG

Visit at the height of fall color to see a locally rare level bog and vernal pool complex with a thriving bog community of black spruce, tamarack, bog rosemary, large and small cranberries, bog laurel, and tawny cottongrass. Some 53 species of lichens grow

within Gowing's Swamp, many on the black spruce-tamarack stands. The outer bog's sphagnum mat supports a thicket of leatherleaf, maleberry, highbush blueberry, and sheep laurel. A magnificent palette of deep reds to clear yellows line the trails with blueberries at every level along with maple-leaved viburnums, sweet pepper-bush, sassafras, hop-hornbeam, American chestnut, sweet gum, American hazelnut, and a magnificent blooming hillside of witchhazel. The leader has been studying and communing with the bog for more than three decades.

Sunday, October 21, 1:30-3:30 p.m.

Concord, MA

Course Code: FDT1113

Instructor: Cherrie Corey, naturalist, bog preservationist

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

Limit: 15 **Credit:** Field-FB/Adv.FB

A REMEDY FOR CRAZINESS

Have you ever found yourself out on a hike without your toothbrush . . . or even worse, without toilet paper? Find out about the Indian toothbrush, the "toilet paper tree" and a few plants you can use to make herbal teas. And just in case it's needed, learn about a Chippewa remedy for craziness. We'll also learn to identify a number of trees, shrubs and wildflowers and hear stories of their uses by indigenous people, colonial Americans and modern-day folk.

Saturday, November 3, 9:30 a.m.-12:30 p.m.

Belmont, MA

Course Code: FDT2047

Leader: Roland "Boot" Boutwell, naturalist

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

Limit: 16

Credit: Field-FB/Adv.FB

Cosponsor: MA Audubon, Habitat

field trips

NAKED SHRUBS

No leaves? No problem! Use a combination of branching patterns, bud and bark characteristics, habitat, persistent fruits, galls and marcescent leaves to identify shrubs in winter. The program begins with a short session indoors. Then travel to a nearby site for a close look at 15–20 native New England shrubs plus a couple of non-native invasives. Return indoors for a twig or slide quiz and a cup of something hot. This is a wonderful introduction to shrub ID in winter as well as a good review for those who have taken “Native New England Shrubs.” Bring lunch and a hand lens if you have one. Be sure to dress for the weather. “There is no bad weather, only improper clothing!”

Leader: Roland “Boot” Boutwell, naturalist

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

Limit: 16

Credit: Field-FB/Adv.FB

Choose one of three sections

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

Wells, ME

Course Code: FDT1117

Cosponsor: Wells National Estuarine Research Reserve

Saturday, January 19, 10 a.m.-2 p.m.

Easthampton, MA

Course Code: FDT1114

Cosponsor: MA Audubon, Arcadia

Saturday, February 9, 9:30 a.m.-1:00 p.m.

Lexington, MA and environs

Course Code: FDT1116

Cosponsor: MA Audubon, Habitat



wetlands

WETLAND SPECIES IDENTIFICATION IN WINTER

This program builds knowledge and skills for recognizing wetland trees and shrubs in winter. The morning session is spent indoors learning key identification features. After lunch, we go out in the field to see these plants in their habitats and determine wetland boundaries. Some familiarity with common wetland plants and taxonomy is helpful. Dress warmly and prepare for cold, wet field conditions. Bring a hand lens and a bag lunch.

Saturday, December 1, 9:30 a.m.-3:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: WET1002

Instructor: Dennis Magee, author,
environmental consultant

Fee: \$80 (Member) / \$96 (Nonmember)

Limit: 16

Credit: Elective-all certificates



children & families

ALL PROGRAMS AT GARDEN IN THE WOODS, FRAMINGHAM, MA

ROCK AND ROLL

Come to the Garden to collect rocks and watch them roll in our rock tumbler, becoming shiny and smooth. Study crystals, and learn about quartz, fool's gold and geodes. How do scientists classify rocks? What kinds of things can you learn by smashing rocks open? Investigate these and other geological questions and create a rock collection to take home.

**Wednesday, October 10,
3:30-5:30 p.m.**

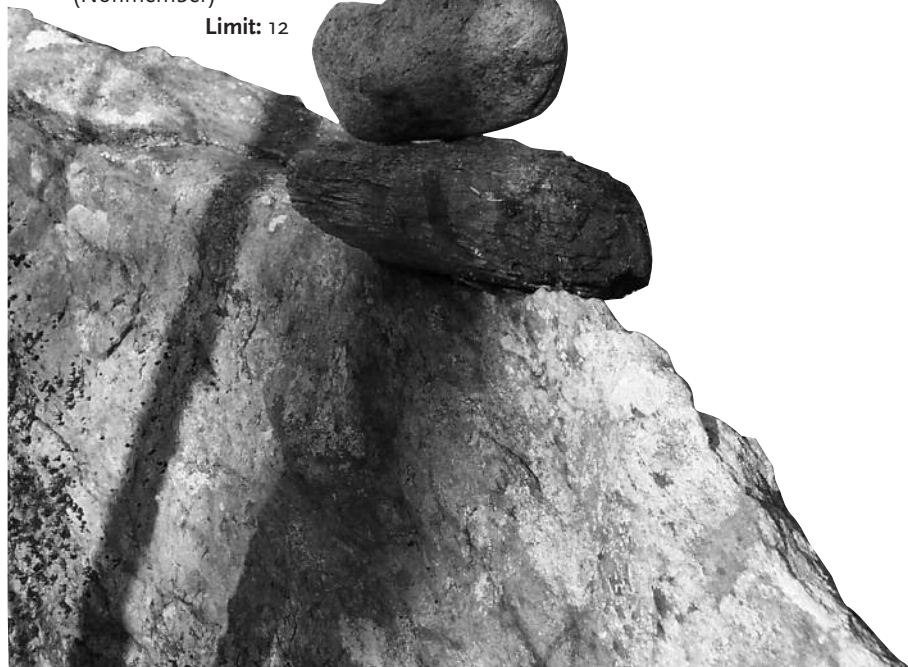
Children in Grades 2-4

Course Code: CHP6151

Instructor: Bonnie Drexler,
Education Director, New
England Wild Flower Society

Fee: \$14 (Member) / \$17
(Nonmember)

Limit: 12



FULL MOON NIGHT HIKE

Near the night of the "Beaver Moon," venture out into the dark forest to enjoy the nighttime sights, smells, and sounds. Who is still awake? What stars or planets can we spot? What tricks can we use to find our way? After our walk, enjoy hot cocoa and make a booklet of full-moon activities for months of full moons to come.

**Thursday, November 29,
6:30-8:30 p.m.**

Children with Adult Companion

Course Code: FAM6500

Instructor: Tracy Phipps, naturalist

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

Limit: 24

children & families

WELCOMING THE WINTER SOLSTICE

The Winter Solstice marks the shortest day (and longest night) of the year, as well as the first day of winter. Solstices mark key turning points in the year and have been celebrated by many cultures throughout history. We celebrate on the actual solstice with history and lore, poetry, stories and a walk outdoors to enjoy the setting sun, enjoy the beauty of the season, and light the ceremonial “Fireball.” Indoors, we end with a short ceremony to welcome the solstice season followed by warm cider and cookies.



Thursday, December 20, 3:30-5:30 p.m.

Adult and Children with Adult Companion
Garden in the Woods, Framingham, MA

Course Code: FAM1802

Leader: Roland “Boot” Boutwell, naturalist

Fee: \$10 (Member) / \$12 (Nonmember)

Limit: 24

WINTER WONDERS WALK

Come to Garden in the Woods to see a puppet show about winter survival. Make a “track-finder.” Walk through the wintry woods. Enjoy hot drinks and a winter craft activity. Hike down into the snowy woods, over an icy brook, and beside a meadow looking for signs of winter residents and their activities. Learn how foxes, rabbits, squirrels, turtles, frogs, trees, and wildflowers survive the long snowy months.

Sunday, January 20, 1:30–3:30 p.m.

Children with Adult Companion

Course Code: FAM1800

Instructor: Tracy Phipps, naturalist

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

Limit: 24

FOR THE BIRDS

Our feathered friends could use a little help from humans at this time of year. Come to the Garden to learn how some birds survive the cold and ways we can help them. How do birds’ beaks, feet, and feathers work to keep these little bundles of energy alive? How do they find food, water and shelter when the temperatures fall so low? Build several kinds of bird feeders and make a mini-field guide to help us identify which birds might pay you a call.

Sunday, February 10, 1:30-3:30 p.m.

Children with Adult Companion

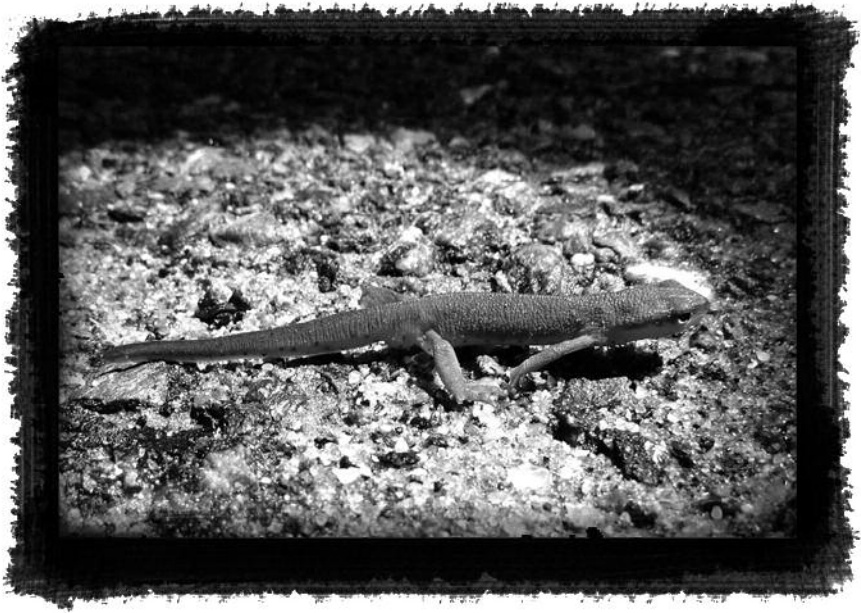
Course Code: FAM4200

Instructor: Tracy Phipps, naturalist

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

Limit: 24 participants





SALAMANDER CELEBRATION

Join our annual celebration of this shy and beautiful woodland creature. Come to learn about several special kinds of salamanders who live at Garden in the Woods. Some may even live in your own backyard. Enjoy a puppet show and a short slide program, and then walk to a vernal pool to seek out some salamanders and their eggs. Make a salamander craft and a life-cycle flip-book to take home.

Sunday, March 24, 1:30-3:30 p.m.

Children with Adult Companion

Course Code: FAM3600

Instructor: Bonnie Drexler, Education Director, New England Wild Flower Society

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 3302
- 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
.....
.....
.....
.....

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.)

PAYMENT

Total: \$

Check enclosed (payable to New England Wild Flower Society)

Credit card #

Visa MasterCard Exp. date

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 a member of (Cosponsor organization)

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

registration information

For registration form, see page 32.

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 letter, 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, please call the Registrar, 508-877-7630, ext. 3303, to see if your course has been rescheduled. The Registrar or instructor will make every effort to inform you by telephone or email of any change. 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 us... and strengthen our mission

The ultimate membership benefit is the satisfaction of knowing you are making a difference in the health of our environment and New England's natural habitats.

Additional benefits include:

- Up to 20% discount and priority registration on hundreds of courses, workshops, symposia, and field trips. **Join when you register for immediate discounts on courses.**
- Unlimited free admission to Garden in the Woods, the region's premier native wildflower botanic garden (Does not apply to Associate Membership.)
- 10% discount on purchases from our native plant sales area at Garden in the Woods and Nasami Farm
- 10% discount on most book and gift items in our Garden Shops

- Invitations to member's only events
- Subscriptions to the Society's publications
- Borrowing privileges at our 4,500+ volume botanical library
- Discounts at select New England and mail-order nurseries

Membership levels

- Individual \$50
- Individual Plus \$60
- Family/Friends \$75

For more information on membership benefits, Corporate Membership, and discounted Associate and Student memberships, please visit www.newenglandwild.org/membership.

JOIN TED ELLIMAN
FOR A SOCIETY-SPONSORED TRIP TO THE

HIMALAYAS: THE SIKKIM & DARJEELING

April 27-May 11, 2013

Highlights include the spectacular flora and landscapes of Sikkim and the Darjeeling Himalayas. Visit tea plantations, botanic gardens, orchid reserves, monasteries, the Shingba Rhododendron Sanctuary, fully covered with more than 36 species in full bloom at this time. Botanize and explore the lower regions of the Yumthang Valley where we will seek out *Meconopsis grandis*, the national flower of Bhutan. Join us for the trip of a lifetime.

Details at
www.newenglandwild.org/learn/travel



NEW ENGLAND WILD FLOWER SOCIETY
HEADQUARTERS & GARDEN IN THE WOODS
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Framingham, Massachusetts 01701-2699

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