

SPRING/SUMMER 2010

NEW ENGLAND
WILD
FLOWER
SOCIETY



learn+grow

MARCH 2010 • VOLUME 3, NUMBER 1

THE COURSE CATALOG OF NEW ENGLAND WILD FLOWER SOCIETY



OPPORTUNITIES TO LEARN, PARTICIPATE, AND TRAVEL

- Explorations of native plants, gardening, and design at all levels
- Courses and workshops on botany, conservation, and natural history
- Field trips, family programs, lectures, and useful ideas for everyone

regional index

GARDEN IN THE WOODS

Date	Course Title	Page
4/8	Nibbling on Natives	3
4/10	Pruning Shrubs	4
4/15	Certificate Orientation	2
4/17	Invasives	16
4/27	Wildflowers of NE	17
4/28	Slow Landscaping	5
4/30	Native Plant Materials	5
5/5	Signs of Spring	23
5/8	Herbaceous: Early	6
5/8	Planting Techniques	6
5/14	Understand Trilliums	7
5/15	Botany of Design	7
5/19	Pollinator-friendly	8
6/2	NE Plant Communities	18
6/2	Native Shrub Heroes	8
6/3	Native NE Shrubs	18
6/10	Botanical Inventory	19
6/12	Container Gardening	9
6/23	Propagation I	10
6/24	Survey of Grasses	19
6/26	Photograph for Online	20
7/11	Fancy Ferns	21
7/14	Identify Natives	21
7/15	Wetland ID	22
8/5	Wetland ID/Delineation	22
8/12	Herbaceous: Late	11
9/7	Native NE Shrubs	18

CHILDREN & FAMILIES

Date	Course Title	Page
	All Programs	30, 31

ON THE COVER

Trillium erectum (var. album),
W. Cullina

EASTERN MASSACHUSETTS

Date	Course Title	Page
3/30	Residential Landscape	3
4/8	Plants Great & Small	4
4/10	Planting Design	4
5/12	Woodland Garden	12
5/26	Artful Gardens	12
6/8	Lessons from Gardens	13
6/13	Ferns of Estabrook	24
6/17	Woody Vines	9
6/19	Field and Floodplain	25
6/19	Horn Pond Mountain	25
6/26	Air Spading Workshop	10
6/27	Cape Cod Tree Swamps	26
7/18	Backyard Biodiversity	11
8/7	Shrubs Revisited	21
8/28	World's End	28
9/19	Plum Island Flora	29
9/23	Plant Form & Function	22
9/26	Parker Pteridophytes	29

WESTERN/CENTRAL MASSACHUSETTS

Date	Course Title	Page
4/17	Pruning Fundamentals	4
5/1	Low-Maintenance Design	6
5/15	Planting Techniques	6
5/16	Harvard Forest	23
5/22	Natural Pest Control	8
6/5	Beaver Lodge	13
6/6	Nature Journal	19
6/12	Container Gardening	9
6/13	Lakeside Habitat	13
6/19	Hilltown Landscapes	14
6/26	Propagate Ferns/Mosses	10
6/30	Wildflower Propagation I	10
7/10	Natural Pool Gardens	14
7/18	Minnechaug Mountain	27
8/28	Intro to Seed Saving	11
8/29	Explore East Mountain	29

CONNECTICUT/RHODE ISLAND

Date	Course Title	Page
4/10	Invasives	16
5/15	Fisher Meadows	23
6/3	Wildflowers of NE	17
6/6	Mansfield Hollow	24
6/19	Horse Island	25
7/10	Ferns in the Wild	20
8/8	Sin & Flesh Brook	27

MAINE/NEW HAMPSHIRE/VERMONT

Date	Course Title	Page
3/31	Native Shrubs Early Spring	16
4/10	Lowdown on Gardening	3
4/17	Intro Plant Systematics	17
4/17	Design Natural Garden	5
5/12	Wildflowers of NE	17
5/22	Saco Heath	24
6/19	Container Gardening	9
7/7	Framework Trees	20
7/10	Ponemah Bog	26
7/18	Boulder Loop Trail	26
7/25	Ferns in a NH Woods	27
7/30	Mount Washington	28
8/15	Survey of Ferns in Maine	22
8/19	Rockefeller/Wild Gardens 15	
8/20	Northeast Harbor Gardens	15
8/28	Popham Beach	28
9/8	Native NE Shrubs	18

FROM THE EDUCATION DEPARTMENT

As the heat-generating flowers of skunk cabbage are pushing up through the frozen wetlands here at the Garden, we are pleased to offer you the Spring/Summer Course Catalog. Our hope is that you will find many opportunities in these pages to “heat up” your own native plant education.

Whether you are a Certificate in Native Plant Studies student, or a more casual learner, you will find a unique breadth and depth of course offerings in these pages. Take a botanical quest on the slopes of Mt. Washington or the coastline of Maine, study the propagation of trilliums or ferns, tour gardens near and far, discover new techniques for planting trees or saving seeds, or learn wetland delineation skills. Please join us!



Bonnie Drexler

Bonnie Drexler
Education Director

Lana Reed

Lana Reed
Registrar



Earth Share
OF NEW ENGLAND

TABLE OF CONTENTS

Certificate Program	2
Symposium	3
Horticulture & Gardening	3
Horticulture & Design Trips	12
Botany & Conservation	16
Wetlands	22
Field Trips	23
Children & Families	30
Registration Form	32
Membership Information	inside back cover

NEW ENGLAND WILD FLOWER SOCIETY
180 Hemenway Road, Framingham, MA 01701
T 508-877-7630 F 508-877-3658
TTY 508-877-6553
information@newenglandwild.org
www.newenglandwild.org

Volume 3, Number 1, Spring/Summer 2010

Learn + Grow is published twice a year by New England Wild Flower Society. Subscriptions are included in membership dues, which start at \$50/year for individuals. See inside back cover.

Copyright© 2010 New England Wild Flower Society®. All rights reserved. No material in this publication may be reproduced or used in any way without written consent. For permission, contact Editor, New England Wild Flower Society, 180 Hemenway Road, Framingham, MA 01701.

Printed on recycled paper.
Design: Rachel Wolff Lander
Editor: Steven Ziglar

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

certificate program



ENROLL NOW!

Complete the certificate registration form on page 32 of this catalog or online at www.newenglandwild.org. 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 North American 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 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 native flora, and why it is important to "learn the wildflowers." 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.

Thursday, April 15, 7-8:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: CER8000

Limit: 20

northern gardening symposium

THE LOWDOWN ON GARDENING DOWN LOW

Saturday, April 10, 2010, 9 a.m.-2 p.m.

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

Three inspiring gardeners share their experience and knowledge to help you create that all-important lower layer in the garden. Look for tips on native shade-tolerant plants from Scott LaFleur, high-impact, low-maintenance groundcovers from Mary Crain Penniman, and “survivalist” rock garden plants that thrive in harsh conditions from Anne Spiegel.

Vermont Technical College, Randolph Center, VT

Course Code: SYM1001

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

Includes cafeteria lunch, symposium packet, and free parking. Member fee applies to members of any of the co-sponsoring organizations.

More information about the speakers and registration options at www.newenglandwild.org/learn

horticulture & gardening

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 supplied at the first class.

**Tuesdays, March 30, April 6, 13, 20, 27,
May 4, 11, 5:45-7:45 p.m.**

Cambridge, MA

Course Code: HOR4002

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

Fee: \$175 (Member) / \$210 (Nonmember)

Limit: 12

Credit: Core-HD; Elective-all certificates

Cosponsor: Cambridge Center for Adult Education

NIBBLING ON NATIVES IN YOUR BACKYARD AND BEYOND

Planting native plants benefits local wildlife but can add to your own diet as well. This presentation features at least three dozen species of native edible wild plants suitable for your home landscape, or nibbling on as you encounter them in other locales. Keys to the identification of each species are provided, along with edible portions, seasons of availability and preparation methods, along with guidelines for safe and environmentally responsible foraging. Following the lecture, sample some foraged goodies made from edible native species.

Thursday, April 8, 7-9 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR6018

Instructor: Russ Cohen, forager and author of *Wild Plants I Have Known...and Eaten*

Fee: \$22 (Member) / \$26 (Nonmember)

Limit: 30 **Credit:** Elective-all certificates

Cosponsor: MA Audubon Drumlin Farm

horticulture & gardening

GARDEN PLANTS GREAT OR SMALL

Low-growing and ground-covering woody plants add texture, unity, and dimension to even the smallest of gardens. They can be used to accentuate pathways or control erosion, as dwarf hedging, as a surround for spring bulbs, and even to distract from the “bare ankles” of taller shrubs. Horticulturist Jen Kettell shows some of her favorites, appropriate for a variety of site conditions and design uses.

Thursday, April 8, 6:30-8:30 p.m.

Arnold Arboretum, Jamaica Plain, MA

Course Code: HOR1552

Instructor: Jen Kettell, Horticultural Technologist, Arnold Arboretum

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

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

Cosponsor: Arnold Arboretum of Harvard University

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 10, 1:30-4:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR3115

Instructor: Deborah Howe, landscape architect, principal of Lighthall Co.

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

Limit: 15 **Credit:** Elective-HD/Adv. HD

PLANTING DESIGN IN MULTIPLE DIMENSIONS

Explore the Tao of planting design—the expression of form, texture, color, and line—that reveals the beauty of trees, shrubs, and herbaceous perennials in a landscape. Learn how to blend the ideals of design with the realities of horticulture. Whether planning a mixed border or a contemplative garden space, Warren's approach emphasizes the inherent beauty of leaves, twigs, and flowers as plants form the architecture of the garden.

Saturday, April 10, 9:30 a.m.-3:00 p.m.

Arnold Arboretum, Jamaica Plain, MA

Course Code: HOR4013

Instructor: Warren Leach, horticulturist and landscape designer

Fee: \$65 (Member) / \$78 (Nonmember)

Limit: 30 **Credit:** Core-Adv.HD; Elective- HD

Cosponsor: Arnold Arboretum of Harvard University

PRUNING FUNDAMENTALS

Proper pruning improves both the health and structure of woody plants and influences their aesthetic qualities as well. Learn how to select basic tools, make a proper cut, determine which branches to cut, and the correct time to prune various species. Bring hand pruners and a saw and leave the workshop with skills to take on most basic pruning issues in the home landscape.

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

Hilltown Tree and Garden, Chesterfield, MA

Course Code: HOR3120

Instructor: Jim McSweeney, certified MA arborist and horticulturist

Fee: \$33 (Member) / \$39 (Nonmember)

Limit: 15 **Credit:** Elective-all certificates

horticulture & gardening

LANDSCAPE DESIGN FOR THE NATURAL GARDEN

Gardening sensitively with native plants that suit the local landscape has many benefits, both environmental and ecological. Join landscape designer Liz Krieg to explore gardens that utilize indigenous and non-invasive perennials and grasses. These beautiful gardens function as low maintenance, water conserving, and erosion controlling communities.

Saturday, April 17, 11 a.m.-12 noon

Montshire Museum, Norwich, VT

Course Code: HOR3995

Instructor: Liz Krieg, landscape designer and consultant

Fee: \$15 (Member) / \$18 (Nonmember)

Limit: 25 **Credit:** Elective-all certificates

Cosponsor: Montshire Museum

SLOW LANDSCAPING

Taking its inspiration from the Slow Food movement, Slow Landscaping seeks to counteract fast or instant landscaping, by showing the way to more fulfilling, equitable, and sustainable landscape practices. This approach to landscaping human settlements mimics the relationships found in natural ecologies. It seeks to preserve native plants, associated ecosystems and wildlife within an ecoregion. It also supports the use of local materials, reducing waste and carbon outputs and education about plants and their importance in the larger environment. Join two veteran garden designers to explore this novel concept and then walk the Garden to see how these practices can play out on the landscape.

Wednesday, April 28, 10 a.m.-1 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR4046

Instructors: Robin Wilkerson, Hasso Ewing, landscape designers

Fee: \$33 (Member) / \$39 (Nonmember)

Limit: 20

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

NATIVE PLANT MATERIALS FOR PROFESSIONALS

Join nationally-known native plant author, propagator, and plant wiz Bill Cullina for an intensive two-day seminar on the best native plant materials available today. This course covers a variety of herbaceous and woody temperate North American plants that are becoming important for use in the design and landscape trades. Plants with extraordinary hardiness, pest resistance, flowering characteristics, texture, and habitat value are featured. Emphasis is on identifying plants that reflect the ambient native plant communities, and which lend well to ecologically-informed designs. Both native wild-type and some cultivars are examined, and information on growing and maintaining plants in the landscape is presented. Amateur horticulturists are welcome.

Friday and Saturday, April 30, May 1, 9:30 a.m.-3:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR1200

Instructor: Bill Cullina, Plant and Garden Curator, Coastal ME Botanical Gardens, author of several books on native North American plants including *Native Trees, Shrubs, and Vines—A guide to growing and propagating North American Woody Plants*; *Natives Ferns, Moss and Grasses*; and *New England Wild Flower Society's Guide to Growing and Propagating Wildflowers*

Fee: \$225 (Member) / \$270 (Nonmember) includes lunches and snacks

Limit: 16 participants

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

horticulture & gardening

LOW-MAINTENANCE DESIGN WITH NATIVE PLANTS

Lower your garden maintenance by using native plants and designing carefully. Learn how to design a unique garden space with strong connections to our spectacular New England landscape. In this interactive format, you are encouraged to bring your ideas, along with photographs, plans, or sketches of your own property. Landscape designer Owen Wormser helps you create enjoyable, low maintenance, and sustainable garden spaces while discovering important functional and aesthetic aspects of native plants.

Saturday, May 1, 9:30 a.m.-12:30 p.m.

Location: Nasami Farm, Whately, MA

Course Code: HOR4045

Instructor: Owen Wormser, landscape designer, Treefrog Landscapes

Fee: \$33 (Member) / \$39 (Nonmember)

Limit: 15 **Credit:** Elective-HD/Adv.HD

Cosponsor: Hitchcock Center for the Environment

NATIVE HERBACEOUS PLANT MATERIALS: EARLY SEASON

Many native North American herbaceous plants are suitable for growing in New England. This course examines the characteristics of horticulturally important native plants that grow and/or flower early in the season. Discussion includes how a plant's cultural requirements relate to its wild habitat. Lectures are accompanied by firsthand looks at plant materials used at Garden in the Woods. Designed for anyone wanting to work at a professional level with native plants, this course is also appropriate for the avid home gardener.

Thursdays, May 6, 13, 12-3:30 p.m. and May 20, 12-3 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR1000

Instructor: Jessie Panek, landscape designer

Fee: \$130 (Member) / \$150 (Nonmember)

Limit: 15

Credit: Core-HD; Elective-all certificates

NEW PLANTING TECHNIQUES FOR TREES AND SHRUBS

This workshop features up-to-date information on the best way to install woody plants. Learn how to avoid costly errors, and see how it is not significantly harder to do the job correctly. Learn the proper way to dig and prepare a planting hole, unpack from "ball and burlap" or containers, water, mulch, and stake. This hands-on workshop is valuable for landscape professionals, home gardeners, and even homeowners who hire others to do their planting, as crucial errors are made even by professionals.

Fee: \$28 (Member) / \$33 (Nonmember)

Limit: 15 **Credit:** Elective-HD/Adv.HD

Choose one of two sections:

Saturday, May 8, 9:30 a.m.-12 noon

Garden in the Woods, Framingham, MA

Course Code: HOR3006

Instructor: Rolf Briggs, owner, Tree Specialists, Inc.

Saturday, May 15, 10 a.m.-12:30 p.m.

Nasami Farm, Whately, MA

Course Code: HOR3009

Instructor: Tony Reiber, Head Grower, New England Wild Flower Society

horticulture & gardening



UNDERSTANDING AND GROWING TRILLIUMS

It is difficult to explain the allure of trilliums, but they are one of our most beloved and cherished groups of wildflowers. Trilliums are an ancient tribe, tracing their lineage back to the great temperate forests that stretched around the globe 60 million years ago. They possess a certain grace and refinement coupled with a patient, unhurried way of life that comes only with age. There are 48 species in the world; of these 36 occur only in the forests of eastern North America and especially in the southeastern US. In this class, Bill Cullina conducts a tour of the genus *Trillium*, focusing first on evolution,

distribution, and ecology, and then delves into the eastern species with all their individual wants and eccentricities. The class concludes with a section on trillium propagation and participants may choose to purchase a trillium division at a discount.

Friday, May 14, 10 a.m.-1 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR2075

Instructor: Bill Cullina, Plant and Garden Curator, Coastal ME Botanical Gardens, author of *New England Wild Flower Society's Guide to Growing and Propagating Wildflowers*

Fee: \$52 (Member) / \$60 (Nonmember)

Limit: 20 participants

Credit: Core-Adv.HD; Elective-HD

THE BOTANY OF DESIGN

Using his latest book, *Understanding Perennials* as a starting point, Bill Cullina tackles the thorny subject of garden design in a completely different way. In this fun and information-filled talk, he explores such things as the reasons for big leaves, variegation, red foliage and flowers and ways to create more satisfying designs without breaking the budget. He looks at life beyond the color wheel, the importance of healthy soil and reveals some of his best horticultural secrets while weaving together aesthetics, psychology, botany, and ecology into a fascinating one hour ride. It is a talk that beginning gardeners as well as seasoned pros will both learn from and enjoy. Bill will be available to sign books after the lecture.

Saturday, May 15, 10:30 a.m.-12 noon

Garden in the Woods, Framingham, MA

Course Code: HOR1508

Instructor: Bill Cullina, Plant and Garden Curator, Coastal ME Botanical Gardens

Fee: \$12 Members and Nonmembers

horticulture & gardening

POLLINATOR-FRIENDLY LANDSCAPING

As New England's landscape becomes increasingly developed, backyards are becoming a "final frontier" in providing essential habitat for at-risk pollinator species that play an integral role in the health of our environment. Garden coach and habitat naturalist Ellen Sousa explains how to help sustain and restore pollinator populations in your own backyard, regardless of its size or location. Learn to choose the best plants to help feed and shelter pollinators, and some best practices for encouraging biodiversity in your backyard. A tour of appropriate plantings at Garden in the Woods follows the morning's lecture.

Wednesday, May 19, 10 a.m.-1 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR4238

Instructor: Ellen Sousa, garden coach and habitat naturalist

Fee: \$33 (Member) / \$39 (Nonmember)

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

Cosponsor: MA Audubon Drumlin Farm



NATURAL PEST CONTROL

Learn how to apply natural or "organic" pest control techniques and products in this wide-ranging workshop. The class provides information on a variety of insect pests, diseases, and weeds. Find out what control methods work and do not work in home orchard, ornamental and vegetable gardens. Feel free to bring sample pests and lots of questions. Leave the workshop with information to defend your landscape, using the most environmentally sensitive and effective products available today.

Saturday, May 22, 10 a.m.-12 noon

Nasami Farm, Whately, MA

Course Code: HOR3404

Instructor: Jim McSweeney, certified MA Arborist and Horticulturist

Fee: \$22 (Member) / \$26 (Nonmember)

Limit: 15 **Credit:** Elective-HD/Adv.HD

NATIVE SHRUB HEROES

Learn about plants that offer color and form to our landscapes, but also provide nourishment and habitat for birds, mammals, and insects. Find out which shrubs can replace any non-native invasive shrubs lingering in a back corner of your garden—burning bush anyone? Discover the reasons for going native in your plant selection, as Robin Wilkerson introduces you to a choice collection of beautiful and "well-behaved" indigenous plants. Following a lecture and slide program, walk the Garden to see these shrubs in their early summer glory.

Wednesday, June 2, 10 a.m.-1 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR2112

Instructor: Robin Wilkerson, landscape designer

Fee: \$33 (Member) / \$39 (Nonmember)

Limit: 15 **Credit:** Elective-all certificates

horticulture & gardening

CONTAINER GARDENING WITH NATIVE PLANTS

Forget the petunias and potato vines; create container plantings using native perennials adapted to our New England winters. Container plantings add accents to your outdoor spaces whether large or small. Learn which natives are ideal for containers and how to combine them effectively. First, explore design elements, container and plant selection, lighting requirements, temperature, growing media, irrigation, fertilization, over-wintering, and long-term maintenance. Then assemble and plant your own container under the instructor's guidance. BYOC—bring your own container. (Containers available at a discount for the class at the Garden Shop at Garden in the Woods.) For all three sections, the class fee includes potting mix, fertilizer and mulch for your container. At Garden in the Woods and Nasami, plants will be available for sale at a discount to class participants that day. At the Montshire Museum, cost of plants is included in class fee.

Limit: 15 **Credit:** Elective-HD/Adv. HD

Choose one of three sections:

Saturday, June 12, 10 a.m.-12 noon

Garden in the Woods, Framingham, MA

Course Code: HOR2950

Instructor: Terry Morrow, Senior Retail Coordinator, New England Wild Flower Society

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

Saturday, June 12, 10 a.m.-12 noon

Nasami Farm, Whately, MA

Course Code: HOR2952

Instructor: Kate Pawling, Plant Propagation Specialist, New England Wild Flower Society

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



Saturday, June 19, 10 a.m.-12 noon
Montshire Museum, Norwich, VT

Course Code: HOR2953

Instructor: Liz Krieg, landscape designer and consultant

Fee: \$50 (Member) / \$55 (Nonmember)
includes cost of plants

Cosponsor: Montshire Museum

WOODY VINES FOR THE GARDEN

Effective landscape design includes creative use of vertical space, and vines should be considered from the outset. While touring the Leventritt Garden of Shrubs and Vines, horticulturist Jen Kettell introduces an array of woody vines. She explains their various growth habits and attachment mechanisms which determine how they are best used in the garden. Focusing on floral, foliar, and fruiting characteristics, she recommends vines for a variety of garden settings.

Thursday, June 17, 6-8 p.m.

Arnold Arboretum, Jamaica Plain

Course Code: HOR2802

Instructor: Jen Kettell, Horticultural Technologist, Arnold Arboretum

Fee: \$20 (Member) / \$24 (Nonmember)

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

Cosponsor: Arnold Arboretum of Harvard University

horticulture & gardening

WILDFLOWER PROPAGATION I: TRANSPLANTING SEEDLINGS AND ROOTING CUTTINGS

This lecture/workshop covers propagation from cuttings, container growing, and transplantation. We begin with a discussion of basic plant physiology and anatomy, cutting techniques, container design, soil mixes and fertilization. Participants then have an opportunity for guided practice taking cuttings and transplanting seedlings of various wildflowers to take home. Bring a bag lunch and a sharp pair of scissors or pruners. Pots, soil, and a variety of plant materials provided.

Instructor: Ron Wik, Nursery Director,
New England Wild Flower Society

Fee: \$62 (Member) / \$72 (Nonmember)

Limit: 15 **Credit:** Elective-all certificates

Choose one of two sections:

Garden in the Woods, Framingham, MA

Wednesday, June 23, 11 a.m.-4 p.m.

Course Code: HOR3101

Nasami Farm, Whately, MA

Wednesday, June 30, 11 a.m.-4 p.m.

Course Code: HOR3102

AIRSPADING WORKSHOP

Airspading is a new method of excavating the roots of a tree using a “gun” called an airspade, or airknife and a compressor. The dirt is blown off the roots of the tree, making it lighter and easier to move. Unlike traditional methods, airspading captures 80–90% of the roots without a heavy root-ball. More roots for the tree mean a healthier transplant.

With new construction projects at the Perkins School, many large trees are being transplanted with this technique. Observe the various parts of the transplanting process, hear about the rationale for and the operation of the airspade, and then visit trees that have been transplanted with this technique to observe their overall health. Eligible for NOFA Organic Land Care re-accreditation credits.

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

Watertown, MA

Course Code: HOR3017

Instructor: Sonia Baerhuk, Lead
Groundsperson, Perkins School for the Blind

Fee: \$32 (Member) / \$36 (Nonmember)

Limit: 15 **Credit:** Elective-HD/Adv.HD

PROPAGATING FERNS AND MOSSES

Learn easy methods for propagating our New England native ferns and mosses. The class focuses on the unique life cycles of bryophytes and pteridophytes and tips for growing them from spores, along with other propagation methods. This hands-on course includes a spore-collecting field trip, spore processing, and sowing. Take home your own sown spores, fern gametophytes (“sporelings”), fern sporophytes (“frondlings”), and a mature spore-grown fern.

Saturday, June 26, 1-3 p.m.

Nasami Farm, Whately, MA

Course Code: HOR3107

Instructor: Ron Wik, Nursery Director, New
England Wild Flower Society

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

Limit: 15 **Credit:** Elective-all certificates

horticulture & gardening

CREATING BACKYARD BIODIVERSITY – A WORKSHOP

This lecture and field tour is an opportunity for sharing the experiences of one who has spent twenty years creating and sustaining a variety of microhabitats in a suburban backyard. His $\frac{3}{4}$ acre “sanctuary” that began as an empty building lot now has a meadow, shrubland thicket, woodland, and a small pond and marsh. There is practical advice for creating and sustaining wild places, dirty fingernail stuff such as managing invasive plants and pond muck, mowing suggestions for cool and warm season grasses, and finding and introducing native plants that survive wild competition—Natural Landscaping 101. This workshop shows the exciting potential for natural beauty and biodiversity in a limited suburban land area with successional habitats and common southern New England native plants.

Sunday, July 18, 1-4:30 p.m.

Westport River Watershed Alliance offices,
Westport, MA, and Tiverton, RI

Course Code: HOR4241

Instructor: Garry Plunkett, naturalist

Fee: \$28 (Members) / \$32 (Nonmembers)

Limit: 12 **Credit:** Elective-all certificates

Cosponsor: Westport River Watershed Alliance

NATIVE HERBACEOUS PLANT MATERIALS: LATE SEASON

This course covers many of the best native North American herbaceous plants for New England landscapes and gardens, with an emphasis on species that bloom in the second half of the growing season. We focus on identification, cultural requirements, and the relationship between native habitats and the

requirements of designed and managed spaces. Lectures include firsthand looks at plant materials used at Garden in the Woods. This course is a companion to HOR1000, but either can be taken separately.

Thursdays, August 12, 19, 1-3:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: HOR1050

Instructor: Jessie Panek, landscape designer,
principal, Brumby Designs

Fee: \$65 (Member) / \$75 (Nonmember)

Limit: 15

Credit: Core-HD; Elective-all certificates

INTRODUCTION TO SEED SAVING

Learn the basics of harvesting, processing, cleaning, and storing a wide spectrum of native plant seeds in this hands-on workshop. Start with a discussion about the timing of collection, plant identification, determining ripeness, harvesting methods, processing techniques, and proper storage to maintain seed viability. Then venture out into the Nasami Farm Sanctuary for some botanizing and seed collection. Return indoors where we try our hands at cleaning and processing various types of seeds. Bring home the seeds that you clean, and learn first hand the tremendous benefits that seed-saving brings to the willing gardener.

Saturday, August 28, 9 a.m.-1 p.m.

Nasami Farm, Whately, MA

Course Code: HOR3205

Instructor: Kate Pawling, Plant Propagation
Specialist, New England Wild Flower Society

Fee: \$49 (Member) / \$57 (Nonmember)
includes cost for seeds, supplies

Limit: 15 **Credit:** Elective-all certificates

horticulture & design trips

WOODLAND GARDEN IN WELLESLEY

Have you ever wondered what to do with a shady lot? Join Kathy Shamberger, garden designer and chair of the Society's Horticulture Committee, to see a beautiful solution. Her woodland garden is planted mainly with natives, and has evolved over the last 10 years into an oasis of delight on a modest suburban lot. Most of the plantings have come from the nursery at Garden in the Woods, or have volunteered from the surrounding woodlands. The woodland garden is sunken and borders on the adjacent woods and wetlands of Babson College.

Wednesday, May 12, 10 a.m.-12 noon
Wellesley, MA

Course Code: HDT1026

Instructor: Kathy Shamberger, landscape designer

Fee: \$20 (Member) / \$24 (Nonmember)

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

ARTFUL GARDENS IN HARVARD

A 1915 English Tudor style house in Harvard is the setting for the Panek garden, where a continuous sequence of flowers in bloom is enhanced with carefully chosen textures of leaves, fruits and bark. A formal yew hedge encloses a sunny English style border, facing a pool. Additional mixed borders are anchored by mature 15' tall native azaleas, mountain laurel, rhododendron, dogwood, and magnolias. A wide variety of unusual small trees and shrubs form a naturalistic transition to the surrounding woods. Other features include a butterfly garden, a meadow, a recently discovered 'secret' garden, woodland paths, and a vegetable garden. We then tour the Croyle garden, situated around a dramatic contemporary home with a collection of outdoor sculpture. This

garden began as a woodland garden designed by Neil Jorgensen and has continued to evolve over the years. A series of winding gravel paths travel through the garden, crossing seasonal streams via stone bridges. A river of *Primula japonica* flowing through the garden is especially colorful in May. A wide variety of trees and shrubs provide the setting for an extensive collection of perennials including trilliums and epimediums. Specimen Japanese maples, yellowwood, American and Chinese fringetrees, sweet gum, and tri-color and weeping purple beech are just a few of the mature specimens that have recently been added to the garden to enhance interest. In contrast to the woodland garden, the entry terrace is treated in a contemporary design vernacular with a sculpture court, mature paperbark maples and concolor firs.

Wednesday, May 26, 10 a.m.-1 p.m.
Harvard, MA

Course Code: HDT2018

Leader: Jessie Panek and Pam Durrant, landscape designers

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

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



horticulture & design trips

BEAVER LODGE

Come to the foothills of the Berkshires for an intensive course on the sustainable home and landscape. Explore the interplay of art, technology and the environment surrounding this Platinum LEED Certified home. Beaver Lodge is the only home in western MA to have achieved this highest level, designated by the US Green Building Council. The day's course of study explores the Beaver Lodge, a residence and grounds designed by Marie Stella. This hands-on laboratory setting offers information in the promotion of sustainability, innovative use of native plant materials, construction of rain gardens, green roofs, and vegetated walls. Rainwater harvesting and organic vegetable gardening are also featured. A 'petting zoo' of green materials helps to familiarize you with the latest products available. Enjoy a locavore gourmet luncheon, and learn about SLOW FOOD and its relation to gardening.

Saturday, June 5, 10 a.m.-2:30 p.m.

Shelburne Falls, MA

Course Code: HDT2016

Instructor: Marie Stella, landscape historian, faculty of Landscape Institute

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

Limit: 25 **Credit:** Field-HD/Adv.HD

LESSONS FROM THE GARDENS

Explore two very different private gardens in the Lexington area, and learn tips for connecting a designed landscape to the surrounding woodlands. One garden displays a natural, free flowing design while the other is more formal, but with a naturalistic approach. The second garden offers a

rich collection of understory trees and shrubs with perennial details. Come with a critical eye to evaluate what has been successful and what areas could be changed to bring out the best of the landscape. June is a time of transition from spring blooming bulbs and shrubs to summery herbs and the bounty of perennials such as geraniums, daisies, and iris. Discuss challenges faced by home gardeners in woodland sites, such as invasive species and other garden intruders.

Tuesday, June 8, 10 a.m.-1 p.m.

Lexington, MA

Course Code: HDT1027

Instructor: Seija Hälvä, PhD, garden coach

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

Limit: 20 **Credit:** Field HD/Adv.HD

LAKESIDE HABITAT GARDEN

Join habitat naturalist and garden coach Ellen Sousa for a visit to a beautiful lakeshore property in central MA. Learn how the various garden areas provide habitat for the many birds, turtles, and other animals and insects that live on or near the lake. Sustainable gardening techniques in this wonderfully designed landscape work to keep the lake's water clean. Spring flowers are in their full colorful glory at this time and participants benefit from a wealth of plant information, gardening and design advice.

Sunday, June 13, 10 a.m.-12.30 p.m.

Spencer, MA

Course Code: HDT2019

Instructor: Ellen Sousa, garden coach, author, and naturalist

Fee: \$20 (Member) / \$24 (Nonmember)

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

horticulture & design trips

HILLTOWN LANDSCAPES IN WESTERN MA

Join Jim McSweeney for a tour of three beautiful gardens he designed and installed two years ago. The gardens share basic design elements—hardscaping, herbaceous and woody plants, focal points, edibles, border gardens—but each one has its own unique focus and flavor. The first landscape features a native tall grass and wildflower meadow, stonewalls and a home apple orchard. The second is not your ordinary “foundation planting.” It is a haven for birds with many native edibles. The third garden blends refinement and simplicity in one of the most beautiful settings in the hilltowns of western MA. This garden offers season-long color, and a variety of grasses for winter interest. See many design principles in action: site & soil analysis, use of drifts, bed proportions, plant selection, four seasons of interest, and learn tips for low maintenance. Bring a bag lunch and plenty of water.

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

Worthington, MA

Course Code: HDT2017

Instructor: Jim McSweeney, Certified MA Arborist and Horticulturist

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

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

NATURAL POOL GARDENS

Come for an introduction to natural swimming pools with Chris Rawlings of Water House Pools. Learn how native aquatic and emerging wetland plant species are being used to create healthy, chemical-free and environmentally conscious “living water” pool and pond installations. Four two different designs. The first, installed 3 years ago, is a large swimming pond connected to surface water, featuring solar recirculation and dynamic natural rockscapes. The second, built last fall, is a smaller “plunge pool,” constructed with a rubber liner and native quarry stone. Located in a pre-existing barn foundation, it uses overflow from a domestic water supply. Discuss a variety of design possibilities, from rain water harvesting and bog filters to mechanical/biological filtration, and learn how to select which design is appropriate to your specific site.

Saturday, July 10, 10 a.m.-12:30 p.m.

Ashfield, MA

Course Code: HDT2020

Instructor: Chris Rawlings, Designer, Water House Pools

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

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



horticulture & design trips

Magnificent Gardens of Mt. Desert Island

Register for either or both dates

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

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

ABBY ALDRICH ROCKEFELLER GARDEN AND WILD GARDENS OF ACADIA

Two of Mt. Desert Island's most evocative gardens open their gates to us this day. Noted garden designer Beatrix Farrand designed a stunning garden for David and Abby Alrich Rockefeller in the late 1920's. Today, this garden continues to weave an enchanting spell over its visitors, combining Asian art and architecture with vibrant displays of annuals and perennials. Native shrubs, groundcovers, mosses and ferns shine alongside the ancient stone sculptures, some from the 14th century. Meet with the horticulture staff for a behind the scenes understanding of the Garden.

Following lunch (on your own at the nearby Jordan Pond House), we will tour the Wild Gardens of Acadia, where we explore a microcosm of Mount Desert Island's natural habitats. Only plants indigenous to Mt. Desert Island find a home here on this small, but intensely planted site. Over 300 native plant species are arranged by habitat setting. This jewel of a native plant garden won the Homer Lucas Landscape Award from New England Wild Flower Society in 1998.

Thursday, August 19, 9 a.m.-2:30 p.m.

Seal Harbor and Bar Harbor, ME

Course Code: HDT7001

Fee: \$60 (member) / \$72 (non-member)

NORTHEAST HARBOR GARDENS

The Asticou Azalea Garden and the Thuya Garden are linked by location as well as history. At the Asticou Azalea Garden, rhododendrons, mountain laurels, heathers and azaleas were planted to transform a swamp into a stroll garden with an Asian flavor. The water gardens of the Katsura Imperial Villa in Kyoto, Japan supplied the inspiration for the flowing Asian design.

To reach the Thuya Garden, we climb a winding trail under towering spruce and cedar trees. Rustic cedar shelters provide rest stops with views of Northeast Harbor below. At the top, we enter the formal garden through a pair of carved wooden gates featuring fiddlehead ferns and lady's slipper orchids, among others. The two main formal borders are planted with drifts of perennials that range from warm to cool hues as you stroll by. A shallow reflecting pool, a hidden summer house, and giant garden urns punctuate the garden's floral displays.

Friday, August 20, 10 a.m.-1:00 p.m.

Northeast Harbor, ME

Course Code: HDT7002

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

botany & conservation



NATIVE SHRUBS IN EARLY SPRING

Even without leaves, shrubs can be identified using a number of macro-characteristics such as branching patterns, growth habits, bark, persistent fruit, and catkins. Their habitats provide more clues, as do their smaller features such as buds, leaf and bundle scars. The program begins with a classroom session, followed by a field session on the property, weather permitting. Look for common native species such as witch hazel, highbush blueberry, winterberry, and wintergreen. Bring lunch and a hand lens. A winter twig key, such as *Winter Keys to Woody Plants of Maine* (Campbell, Hyland and Campbell, 1975) or *Fruit Key and Twig Key to Trees and Shrubs* (Harlow, 1946), is highly recommended.

Wednesday, March 31, 10 a.m.-2 p.m.

Delta Institute, Bowdoin, ME

Course Code: BOT3324

Instructor: Lauren Stockwell, environmental consultant

Fee: \$44 (Member) / \$52 (Nonmember)

Limit: 16 **Credit:** Elective-FB

INVASIVES: ID, ECOLOGY, AND CONTROL

Get a head start on invasive control this year by learning to identify invasives in the early season. This course provides an introduction to about 40 of the most common local invasive non-native plants. With an illustrated lecture, use of herbarium specimens, and a walk outside, become familiar with identification clues as well as the habits of a number of these plants that are so disruptive of natural ecosystems. Discuss management techniques for many of these species, on both a home and a landscape scale. The Society's "Invaders" magazine as well as the *MA Field Guide to Invasives* will be available for purchase at a discount.

Instructor: Ted Elliman, Vegetation Manager, New England Wild Flower Society

Fee: \$44 (Member) / \$52 (Nonmember)

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

Choose one of two sections:

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

New Haven, CT

Course Code: BOT5108

Cosponsor: Yale Peabody Museum

Saturday, April 17, 10 a.m.-2 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT5107

Cosponsor: Arnold Arboretum of Harvard University

botany & conservation

INTRODUCTION TO PLANT SYSTEMATICS

This course is for students beginning their study of the evolutionary tree of plant life, as well as for those with prior knowledge of taxonomy but who want to organize their knowledge according to modern research. During this course, topics such as the phylogenetic method, characters used to decipher plant relationships, nomenclature, and vocabulary will be discussed. This course fulfills the first of four required modules of the Plant Systematics core requirement for the Certificate in Native Plant Studies. The required textbook is *Plant Systematics: A Phylogenetic Approach* by Judd, Campbell, Kellogg, and Stevens (3rd edition).

Saturday, April 17, 1-4 p.m.

Delta Institute of Natural History, Bowdoin, ME

Course Code: BOT2227

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

Fee: \$39 (Member) / \$46 (Nonmember)

Limit: 16

Credit: Core Adv.FB; Elective-all certificates

WILDFLOWERS OF NEW ENGLAND

A great way to begin the study of native plants, this course focuses on learning to identify wild plants and provides field experience across the spectrum of New England flora. Sessions will cover plant identification using Newcomb's Wildflower Guide. Students will become familiar with family characteristics, growth patterns, habitats, and pollination mechanisms of many of our native wild flowers. Practice plant identification and study plant habitats in the field. Bring a hand lens to each class. Required text: Newcomb's Wildflower Guide.

Fee: \$130 (Member) / \$150 (Nonmember)

Limit: 16 **Credit:** Core-FB or HD

Choose one of four sections:

Tuesdays, April 27,

May 4, 11, 18, 10:00 a.m.-12:30 p.m.

Garden in the Woods, Framingham, MA

Instructor: Frances Clark, botanist, principal, Carex Associates

Course Code: BOT3000

Tuesdays, April 27,

May 4, 11, 18, 6:30-9:00 p.m.

Garden in the Woods, Framingham, MA

Instructor: Frances Clark

Course Code: BOT3001

Wednesday, May 12, 6-9 p.m.,

Montshire Museum, Norwich, VT

Saturday, May 15, 9 a.m.-1 p.m.,

Plainfield Sanctuary, Plainfield, VT

Sunday, May 23, 10 a.m.-2 p.m.,

White Mt. National Forest, Easton, NH

Instructor: Chris Mattrick, Forest Botanist, White Mt. National Forest, NH

Course Code: BOT3007

Thursdays June 3, 10, 17, 5:30-7:00 p.m.,

Saturdays, June 5, 12, 9:30-11:30 a.m.

Yale Peabody Museum, New Haven, CT and field sites

Instructor: Lauren Brown, botanist, author of *Wildflowers*, *Winter Weeds*, and *Grasses: An Identification*

Course Code: BOT3004



botany & conservation

NEW ENGLAND PLANT COMMUNITIES

The diversity of plant communities in New England is truly astounding, including several forest types, freshwater wetlands, coastal dunes, grasslands, heathlands, tidal marshes, and montane communities. Understanding the dominant canopy species, indicator species, and range helps us to interpret our own landscape's ecological identity. Lectures cover effects of soils, topography, moisture, geological conditions, and glaciation. Field trips to study the composition and structure of some distinctive plant communities complement the lectures. Extensive hand-outs included.

**Wednesdays, June 2, 9, 23, 6:30-8:30 p.m.,
Saturdays, June 12, 19, 10 a.m.-2 p.m.**

Garden in the Woods, Framingham, MA and field sites

Course Code: BOT4000

Instructor: Ted Elliman, Vegetation Manager, New England Wild Flower Society

Fee: \$208 (Member) / \$240 (Nonmember)

Limit: 16 **Credit:** Core-FB or Adv. HD;
Elective-all certificates

Cosponsor: Arnold Arboretum of Harvard University

NATIVE NEW ENGLAND SHRUBS

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

Fee: \$195 (Member) / \$225 (Nonmember)

Limit: 16 **Credit:** Core-FB or HD;
Elective-all certificates

Choose one of three sections:

**Thursdays, June 3, 10, 17, 6:30-8:45 p.m.,
Sundays, June 6, 13, 9 a.m.-1 p.m.**

Garden in the Woods, Framingham, MA and field sites

Course Code: BOT3300

Instructor: Roland "Boot" Boutwell, naturalist

**Tuesdays, September 7, 14, 21, 6:30-8:45 p.m.
and Sundays, Sept. 12, 19, 9 a.m.-1 p.m.**

Garden in the Woods, Framingham, MA and field sites

Course Code: BOT3301

Instructor: Roland "Boot" Boutwell, naturalist

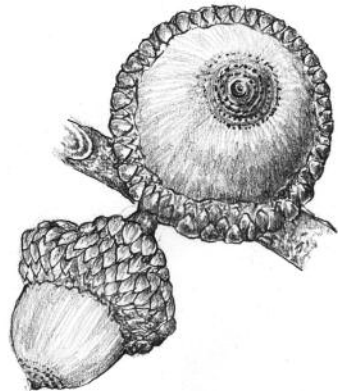
**Wednesdays, September 8, 22, 6-9 p.m.,
Sunday, September 12, Saturday, September 18, 9 a.m. - 1:30 p.m.**

Squam Lakes Natural Science Center, Holderness, NH and field sites

Course Code: BOT3304

Instructor: Chris Mattrick, Forest Botanist, White Mt. National Forest, NH

Cosponsor: Squam Lakes Natural Science Center



botany & conservation

THE ART AND FUN OF THE NATURE JOURNAL

One of the best ways to experience and recall the natural world around you is to write it down, make a sketch, and record your immediate impressions in a few sweeps of the pen. Drawing and writing about plants involves muscle-memory that helps us remember them, slow down and see, and make new discoveries. Make your first entries in a new, individualized journal, and hopefully develop a healthy, inspirational, creative habit for a lifetime of keen observation. Join Elizabeth Farnsworth, scientific illustrator and ecologist with New England Wild Flower Society, to learn about and enjoy the art and addictive activity of keeping a nature journal. All materials provided, but bring a lunch and lots of water. Appropriate for adults and older teens.

Sunday, June 6, 11 a.m.-2 p.m.

Nasami Farm, Whately, MA

Course Code: BOT6008

Instructor: Elizabeth Farnsworth, Ph.D., botanist, author, and artist

Fee: \$33 (Member) / \$39 (Nonmember)

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

Cosponsor: Hitchcock Center for the Environment

BOTANICAL INVENTORY METHODS

This course focuses on how to conduct basic inventories of plants as descriptions of vegetation communities on public and private land for the purpose of conservation planning and management. The evening session covers elements of field preparation and the fundamentals of community classification systems. Field investigations include

sampling a variety of forest and meadow communities, applying data on geology, soils, and hydrology as well as information on species associations. Includes the application of rapid and comprehensive sampling techniques. Sturdy footwear, compass, and hand lens recommended. Bring a bag lunch for the field session.

Thursday, June 10, 7-9 p.m., and

Friday, June 11, 9:30 a.m.-3 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT2050

Instructor: Frances Clark, botanist, principal, Carex Associates

Fee: \$98 (Member) / \$115 (Nonmember)

Limit: 15

Credit: Core-FB; Elective-all certificates

SURVEY OF GRASSES OF THE NORTHEAST

Learn how to identify the common grasses in this workshop, designed for both amateurs and professionals. Starting with a review of the morphology of reproductive parts, we focus on characteristics necessary to learn the differences among the numerous grass tribes as well as genera within each tribe. In an afternoon field session, learn some shortcuts for recognizing groups. Handouts provided. Bring a 10x hand lens and a bag lunch.

Thursday, June 24, 9 a.m.-3 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT3516

Instructor: Dennis Magee, author, environmental consultant, Normandau Associates

Fee: \$66 (Member) / \$78 (Nonmember)

Limit: 16

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

botany & conservation

PHOTOGRAPHING FOR THE ONLINE FLORA

The New England Wild Flower Society is seeking volunteers to contribute photographs of New England plant species for our forthcoming NSF-funded “*Online Flora of New England*”. For each of several thousand plant species of our region, we need photos of habit, leaf, flower and fruit, as well as images of bark and buds for woody species. This fun workshop will prepare you to take aesthetically-appealing “diagnostic photographs,” that you may wish to contribute to the forthcoming *Online Flora*. You will learn some of the tips and tricks of successful plant photography from an accomplished botanical photographer. Bring your digital or film camera and a tripod for the outdoors practicum, which will follow the indoor slide presentation.

Saturday, June 26, 1-4 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT6034

Instructor: Arieh Tal, photographer and naturalist

Fee: \$22 (Member) / \$26 (Nonmember)

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

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 will 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. We’ll consider the natural conditions and human disturbance factors that produce different forest associations. Field trips on the weekends take us to a variety of forest types.

Wednesday, July 7, 6-8:30 p.m., Sunday, July 11, and Saturday, July 17, 9 a.m.-3:30 p.m.

Squam Lakes Natural Science Center, Holderness, NH and field sites

Course Code: BOT3206

Instructor: Chris Mattrick, Forest Botanist, White Mt. National Forest, NH

Fee: \$176 (Member) / \$204 (Non-member)

Limit: 16

Credit: Core-FB; Elective-all certificates

Cosponsor: Squam Lakes Natural Science Center

FERNS IN THE WILD AND IN YOUR GARDEN

Nothing evokes serenity and “naturalizes” a landscape like a glade of ferns. They also provide dependable season-long greenery and, for the patient gardener, are easy to establish. This workshop introduces the common native ferns appropriate for different soil and light conditions. Learn field identification keys, become familiar with the fascinating natural history of ferns, and see how to integrate them into various landscape settings. After a morning session inside, walk the Arboretum to discover the ferns along the way. Bring a bag lunch and a hand lens if you have one.

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

CT College Arboretum, New London, CT

Course Code: BOT3436

Instructor: Garry Plunkett, naturalist

Fee: \$38 (Member) / \$44 (Nonmember)

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

Cosponsor: CT College Arboretum

botany & conservation

FANCY FERNS WORKSHOP

Some of our most beautiful ferns are “three-times cut.” Lady fern, hayscented fern, and several wood ferns are the more common taxa in this group. We discuss vocabulary, frond morphology, and field identification characteristics. The class involves careful observation of fronds from these species, and possibly a hybrid as well. The indoor session includes a lecture and the use of dissecting microscopes, followed by a field session to see the ferns in various habitat areas of the Garden. Bring a bag lunch and a hand lens if you have one.

Sunday, July 11, 10 a.m.-4 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT3413

Instructors: Don Lubin, Ray Abair, fern enthusiasts

Fee: \$66 (Member) / \$78 (Nonmember)

Limit: 16 **Credit:** Core Adv.FB; Elective-all certificates

IDENTIFYING NATIVES WITH NEWCOMB'S

Learn to use *Newcomb's Wildflower Guide* for the first time or revisit an old friend to understand why this book remains one of the most popular and useful field guides for a non-botanist (botanists like it too). With its unique key, short, accurate descriptions, and sensitive drawings by Gordon Morrison, you will be able to identify both woody and herbaceous native plants from rare wild flowers to tiny interesting weeds. Even if you have used this book before, you will enjoy getting to know about Lawrence Newcomb's history, his close observations in the field and in his own garden that helped him create a book light enough to carry, yet

filled with 1,375 wildflowers, shrubs and vines of the Northeastern United States. Receive a solid grounding in “Newcomb's,” which will serve you well as you take other botany courses in the Certificate Program.

Wednesdays, July 14, 21, 10 a.m.-12:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: BOT2221

Instructor: Carol Govan, naturalist, artist

Fee: \$55 (Member) / \$65 (Nonmember)

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

SHRUBS REVISITED

What is woody, short and multi-stemmed? ...When it comes to knowledge, it's use it or lose it. Here is a chance to review 20-25 of the shrubs covered in the core course “Native New England Shrubs” during a different season of the year. We also learn several shrubs not covered in the core course. We might even add in a few summer wildflowers. And, if you haven't taken the shrubs core course, this class provides a good introduction to New England shrubs. The field site, the Horn Pond Conservation Land in Woburn, MA, is an area both rich and diverse and is one of Society's Research Botanist Arthur Haines' favorite field sites. As we stroll throughout the property, we focus on a few of the key ID characteristics and a bit about the natural history of each shrub. Bring a hand lens and your shrub cards, if you have them, as well as a bag lunch.

Saturday, August 7, 10 a.m.-2 p.m.

Horn Pond Conservation Land, Woburn, MA

Instructor: Roland “Boot” Boutwell, naturalist

Course Code: BOT3310

Fee: \$44 (Member) / \$52 (Nonmember)

Limit: 15 **Credit:** Elective-all certificates

botany & conservation

SURVEY OF NEW ENGLAND FERNS IN MAINE

Don and Ray have offered this workshop annually since 1999, but never before in Maine. They begin with a review of our fern flora, the 68 species that are native to New England. After an introductory discussion, they display photographs, drawings, and frond silhouettes. An outdoor field session follows with a visit to many ferns on the Delta property, then *Lycopodiella* club-moss and other taxa at a nearby quarry. Geared to students with some experience and comfort in fern taxonomy. Bring a bag lunch and a hand lens.

Sunday, August 15, 10 a.m. - 4:30 p.m.

Delta Institute, Bowdoin, ME

Course Code: BOT3422

Instructors: Don Lubin, Ray Abair, fern enthusiasts

Fee: \$72 (Member) / \$85 (Nonmember)

Limit: 16 **Credit:** 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. Microscope 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 23, 30,
October 7, 14, 21, 28, 2010, 6:30-9 p.m.**

Bentley College, Waltham, MA

Course Code: BOT1000

Instructor: Dr. Nancy Eyster-Smith, botanist, Bentley University

Fee: \$208 (Member) / \$240 (Non-member)

Limit: 16 **Credit:** Core-FB or HD; Elective-all certificates

wetlands

WETLAND PLANT IDENTIFICATION

This workshop focuses on a variety of wetland community types, their ecology, and common indicator species. Following a short introductory lecture, we visit wetland habitats, including a red-maple swamp, a flood-plain marsh, and a pond. While in the field, take advantage of the season by exploring ferns, sedges, and various aquatic species, as well as shrubs and trees. Bring a hand lens, lunch, and come prepared for wet feet in the field.

Thursday, July 15, 9:30 a.m.-3 p.m.

Garden in the Woods, Framingham, MA

Course Code: WET1000

Instructor: Frances Clark, botanist, principal, Carex Associates

Fee: \$61 (Member) / \$72 (Nonmember)

Limit: 12 **Credit:** Elective-all certificates

BASIC ID AND DELINEATION

This two-day introductory course provides a foundation in the elements of wetland identification—wetland hydrology, hydric soils, and hydrophytic plants. Field ID and delineation are discussed and practiced. Recommended gear: clip board/field notebook, field guides, soil color charts (if you already own), bug repellent, sunscreen, and rain gear. Bring a bag lunch. Handouts provided and some pre-class reading required.

Thursday and Friday, August 5, 6, 9 a.m.-4 p.m.

Garden in the Woods, Framingham, MA

Course Code: WET2010

Instructor: Patrick Fairbairn, ecologist

Fee: \$155 (Member) / \$182 (Nonmember)

Limit: 12 **Credit:** Elective-all certificates; Core: Adv.FB

field trips

SIGNS OF SPRING AT WILL'S WOODS

Spring is back! Leaf buds are beginning to open and early flowering species are in bloom. Leave the beaten track and explore parts of Garden in the Woods' natural areas, about two-thirds of its 45 acres. Appreciate why Will Curtis fell in love in the 1930's with this glacially-formed property, as we identify a diversity of trees, shrubs, and some herbaceous species. Encounter interesting species such as American hornbeam (*Carpinus caroliniana*), spicebush (*Lindera benzoin*), and marsh marigold (*Caltha palustris*), while focusing on easily observable identification characteristics and natural history. Bring a hand lens if you have one, and a favorite field guide or two.

Wednesday, May 5, 10 a.m.-12:30 p.m.

Garden in the Woods, Framingham, MA

Course Code: FDT1036

Instructor: Roland "Boot" Boutwell, naturalist

Fee: \$24 (Member) / \$27 (Nonmember)

Limit: 15 **Credit:** Elective-all certificates

FORAGING AT FISHER MEADOWS

Central Connecticut is home to over 100 species of edible wild plants, many of which are more nutritious and/or flavorful than their cultivated counterparts. Join expert forager, Russ Cohen, author of *Wild Plants I Have Known...and Eaten*, to learn about the comestible qualities of at least two dozen species of edible wild plants. Pending favorable weather conditions, several edible spring mushroom species may be encountered as well. Keys to the identification of each species are provided, along with information about edible portions, seasons of availability, preparation methods, and guidelines for safe and environmentally responsible foraging. Fisher Meadows, a large area of

floodplain along the Farmington River in Avon, has a good diversity of wild edibles. Plants may include native species like ostrich fern and sweet cicely as well as weeds and invasive species like chicory and autumn olive.

Saturday, May 15, 9:30 a.m.-12:30 p.m.

Avon, CT

Course Code: FDT6020

Leader: Russ Cohen, author and naturalist

Fee: \$24 (Member) / \$27 (Nonmember)

Limit: 35 **Credit:** Field-all certificates

Cosponsor: Farmington River Watershed Association

HARVARD FOREST

Join us for a visit to the Harvard Forest, a research center comprised of 3,000 acres of land, laboratory facilities, and the Fisher Museum, home of the famous New England dioramas illustrating 300 years of land-use change. Since 1907, scientists, students, and collaborators at the Forest have been investigating ways in which physical, biological and human systems interact to change the earth. In addition to botanizing, learn about many innovative field experiments at the Forest that are yielding cutting-edge data on climate change, hurricane recovery, nutrient deposition, and insect ecology. Take a side trip to Harvard Pond, home to pitcher plants and other uncommon bog species. Bring a bag lunch, appropriate footwear and a hand lens.

Sunday, May 16, 10 a.m.-2:30 p.m.

Petersham, MA

Course Code: FDT1095

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

Fee: \$36 (Member) / \$41 (Nonmember)

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

field trips

SPRING AT SACO HEATH

This outstanding botanical site is perhaps the southernmost example of a raised bog in North America, dating back 12,000 years when glacial activity created adjacent water-filled kettle holes. Saco Heath formed when these ponds filled with decaying plant matter called peat. With each year's plant growth adding to the peat accumulation, the two peatlands eventually grew together above the water table to form a raised, coalesced bog. The *Rhodora* (*Rhododendron canadense*) should be in glorious bloom. The flora we should encounter includes tamarack, black gum, labrador tea, leatherleaf, pitcher plant, cotton grass, and Atlantic white cedar. Bring lunch and a hand lens if you have one.

Saturday, May 22, 10 a.m.-2 p.m.

Saco, ME

Course Code: FDT3011

Instructor: Roland "Boot" Boutwell, naturalist

Fee: \$32 (Member) / \$36 (Nonmember)

Limit: 10 **Credit:** Field-all certificates

MANSFIELD HOLLOW

With a landscape dominated by gravelly, glacial outwash soils, Mansfield Hollow State Park offers such glacial features as kames, eskers, and kettle-holes. This surface geology has created an unusual inland sand plain/pitch pine/dry oak forest community, pocketed with kettle-hole ponds and wetlands—an assemblage rarely seen in northeastern Connecticut. Some botanical highlights include wild indigo, wild lupine, bird's foot violet, pitch pine, scrub oak, New Jersey tea, and two species of native wild roses. If time allows, the Windham Cedar Bog, a neighboring parcel owned by Joshua Tract, a local land trust, will be visited. This gem is one of the few inland Atlantic White Cedar swamps in the area. Wear long pants,

and bring insect repellent, a bag lunch, and a hand lens if you have one.

Sunday, June 6, 10 a.m.-2 p.m.

Mansfield, CT

Course Code: FDT6021

Leader: Bryan Connolly, MA State Botanist, Natural Heritage & Endangered Species Program

Fee: \$32 (Member) / \$36 (Nonmember)

Limit: 15 **Credit:** Field-all certificates

FERNS OF ESTABROOK WOODS

This large woods on the north side of Concord, Massachusetts has more fern diversity than one might expect. The normal array of common ferns is augmented by rich swamp edges and as well as old limestone quarry pits. Expect to see Massachusetts fern, Christmas fern, ebony spleenwort, fragile fern, and perhaps a couple of other calciphiles. Some off-trail walking is involved, but not much climbing. Wear long pants, and bring insect repellent, a bag lunch, and a hand lens if you have one.

Sunday, June 13, 11 a.m.-3 p.m.

Concord, MA

Course Code: FDT1096

Leaders: Don Lubin and Ray Abair, fern enthusiasts

Fee: \$32 (Member) / \$36 (Nonmember)

Limit: 15 **Credit:** Field-all certificates



field trips

HORSE ISLAND

Back by popular demand! Join botanist Lauren Brown on a short excursion to the Thimble Islands, off the coast of Connecticut. Access to the islands is quite limited, but we have permission to visit one owned by Yale University's Peabody Museum. The Thimbles are an unusual ecosystem unto themselves and we'll see an interesting mix of coastal and early successional vegetation, with the feel of coastal Maine. Please be aware that some of the walking will be over uneven, rocky terrain.

Saturday, June 19, 1:45-4:00 p.m.

Thimble Islands, CT

Course Code: FDT6015

Leader: Lauren Brown, co-author with Penelope C. Sharp of *The Vegetation of the Thimble Islands*

Fee: \$35 (Member) / \$40 (Nonmember) includes ferry

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

Cosponsor: Yale Peabody Museum of Natural History.

FIELD AND FLOODPLAIN FOREST FORAY

The Sudbury River curves around this upland area, farmed for centuries in Wayland, MA. Vast hayfields support bobolinks, grassland birds that require large open spaces. The Sudbury floods regularly, providing a band of floodplain forest and marshland along the slow, broad river. Botanize the fields, learning common grasses and wildflowers of cultural landscapes. Explore the shrubby edges with both native wetland vegetation and exotic invasives and talk about appropriate management. Walk out to a point of mature trees overlooking the marshes of the National Wildlife Refuge and

discuss the ecology of floodplains and the plants that can grow there. Walking is easy, about a mile. Bring *Newcomb's Wildflower Guide*, a hand lens (and binoculars!) for full enjoyment of this botanical morning.

Saturday, June 19, 10 a.m.-12 noon

Heard Farm, Wayland, MA

Course Code: FDT1045

Leader: Frances Clark, botanist, principal, Carex Associates, Inc.

Fee: \$16 (Member) / \$18 (Nonmember)

Limit: 15 **Credit:** Field-all certificates

HORN POND MOUNTAIN IN FLOWER

Native Americans called Horn Pond "Lake Innitou," which means "Looking Place of the Great Spirit." The pond is over 100 acres in size and is nestled beneath Horn Pond Mountain, which "towers" 287 feet above sea level. Pond and mountain are set amidst 550 acres of open space filled with a rich diversity of plant life. According to Tom Sileo in his book, *The Great Spirit of Horn Pond*, "members of New England Wild Flower Society ... have located over 600 species of plants on the mountain alone." Many of these plants flower in late spring, making the Horn Pond area a delightful spot for field identification. The walk focuses on wildflower identification as well as interesting natural history and lore. Bring a bag lunch, a copy of *Newcomb's Wildflower Guide* and a hand lens if you have them.

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

Horn Pond Conservation Area, Woburn, MA

Course Code: FDT1053

Leader: Roland "Boot" Boutwell, naturalist

Fee: \$32 (Member) / \$36 (Non member)

Limit: 15 **Credit:** Field-all certificates

field trips

A TALE OF TWO CAPE COD TREE SWAMPS

Explore and compare the Atlantic White Cedar Swamp in Wellfleet, and the Red Maple Swamp in Eastham, both Cape Cod National Seashore properties. Rare and globally-threatened, Atlantic white cedar swamps are cool, dark, acidic, saturated wetlands, their hummocks and hollows dominated by sphagnum mosses and other bog species, including sweet gale, highbush blueberry, swamp azalea, and Virginia chain fern. Red maple swamps are more abundant and diverse. In Eastham, we should find a wider variety of trees and shrubs including tupelo, sheep laurel, and sweet pepperbush, as well as several species of ferns. The red maple trail is fairly easy and level; the cedar swamp trail has several steep stairs and the last half-mile is along an old, soft sand road. Bring sturdy shoes, long pants and long-sleeve shirt, a bag lunch, water, and insect repellent. We will carpool from the first site as parking is limited at the second site.

Sunday, June 27, 10 a.m.-3 p.m.

Wellfleet and Eastham, MA

Course Code: FDT1098

Leader: Marsha C. Salett, naturalist

Fee: \$40 (Member) / \$45 (Nonmember)

Limit: 15 **Credit:** Field-all certificates



PONEMAH BOG

At the center of this 75-acre property is a three-acre kettle hole pond, encircled by a floating mass of sphagnum. The pond and bog are easily accessible by a narrow boardwalk, which includes spur trails to four viewing platforms. We expect to see the magnificent orchid grass-pink in bloom, as well as horned bladderwort, and small cranberry. We should also see a host of other bog plants, including pitcher plants, sundews and tamaracks. The beauty of this bog may make you think you have passed on to the hereafter, and in fact, according to Longfellow in *The Song of Hiawatha*, "Ponemah" means "land of the hereafter". Ponemah Bog is very accessible and is less than an hour from Boston. Bring a bag lunch as well as a hand lens if you have one.

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

Amherst, NH

Course Code: FDT1092

Instructor: Roland "Boot" Boutwell, naturalist

Fee: \$32 (Member) / \$36 (Nonmember)

Limit: 10 **Credit:** Field-all certificates

BOULDER LOOP TRAIL AND SUNDOWN LEDGES

Our hike begins from the Albany Covered Bridge, one of the most scenic locations along the Kancamagus Highway in the heart of the White Mountains. Located on the north side of the "Kanc" and the Swift River, this trail ascends through the boulder-strewn forest below Sundown Ledges. The bowl created by the arc of these ledges is highly enriched and contains several rare plant species. The summit is montane acidic cliff community with some pockets of enrichment. The summit of the ledges provides spectacular views of the Swift River Valley to the west and south. Explore

field trips

Boulder Loop Trail and Sundown Ledges *cont.*

the summit area and look for recently discovered rare species. Recent trail work on the Boulder Loop trail makes this an easy and enjoyable hike. Sturdy hiking boots a must. Bring a bag lunch, plenty of water, and hand lens if you have one.

Sunday, July 18, 10 a.m.-4 p.m.

Albany, NH

Course Code: FDT4033

Leader: Chris Matrick, Forest Botanist, White Mountain National Forest

Fee: \$48 (Member) / \$54 (Nonmember)

Limit: 15 **Credit:** Field-all certificates

MINNECHAUG MOUNTAIN

Just north of the CT-MA border, 908 foot-high Minnechaug Mountain has a diversity of forests, wetlands, and stream corridor communities. Its forested habitats include northern hardwoods-hemlock-white pine habitats on middle and lower slopes, and richer habitats with sugar maple and white ash at higher elevations. The summit area has a dry hickory-hornbeam forest (a rare community type in Massachusetts) with a variety of unusual flora. Society Conservation staff have been working here with the Minnechaug Land Trust on botanical inventories and invasive species management. Hear about our progress and see some of our ongoing work to improve the quality of its habitats. Moderately strenuous—sturdy footwear recommended.

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

Hampden, MA

Course Code: FDT2051

Leader: Ted Elliman, Vegetation Manager, New England Wild Flower Society

Fee: \$32 (Member) / \$36 (Nonmember)

Limit: 15 **Credit:** Field-all certificates

FERNS IN A NEW HAMPSHIRE WOODS

Visiting a local woodland area, expect to see at least 20 pteridophytes, including oak fern and Goldie's wood fern, several interesting horsetails, and a club-moss or two. This walk, led by two knowledgeable and dedicated instructors, offers participants a unique day of fern discoveries.

Sunday, July 25, 11 a.m.-3 p.m.

Hanover, NH

Course Code: FDT4034

Leaders: Don Lubin, Ray Abair, fern enthusiasts

Fee: \$32 (Member) / \$36 (Nonmember)

Limit: 15 **Credit:** Field-all certificates

SIN AND FLESH BROOK

The loveliness of this meandering brook belies its lurid name, given to it in colonial times following a bloody encounter between resident Pocasset Indians and a Quaker preacher in transit to Newport, RI. The stream flows through a beautiful eighty-acre maritime hardwood forest, Fort Barton Woods, a site reeking with history and plant diversity. Streamside wetlands, vernal pools, and glacial upland soils provide an opportunity to see an impressive array of wild flowers and ferns. The terrain is rugged so the walk will require good stamina, and participants should dress for muggy, August forest conditions.

Sunday, August 8, 9 a.m.-12 noon

Tiverton, RI

Course Code: FDT7021

Leader: Garry Plunkett, naturalist

Fee: \$24 (Member) / \$27 (Nonmember)

Limit: 15 **Credit:** Field-all certificates

field trips

MOUNT WASHINGTON AND BEYOND

The alpine zone of the Presidential Range of the White Mountains, like all alpine areas, is a fascinating place. In this hostile, yet compelling environment grow some of New England's most uncommon plants. Despite regular gale force winds, tiny amounts of soil, and temperatures that rarely get above freezing for 5 months of the year, native flora has found a way to survive. Join us for this two-day excursion to the south flank of Mount Washington, Mount Monroe, Monroe Flats and Oakes Gulf. Many of the plants grow nowhere else in New England. The species we will see are far too numerous to list. Suffice it to say....you won't be disappointed.

Full details at
www.newenglandwild.org/learn

Friday, July 30, 9 a.m. to

Saturday, July 31, 5 p.m.

Presidential Range, NH

Course Code: FDT4017

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

Fee: \$260 (Member) / \$312 (Nonmember)

Limit: 10

Credit: Two field credits - all certificates

Details: Fee includes one night's lodging at AMC's Lakes of the Clouds Hut, dinner on Day 1, breakfast on Day 2, and the fee for the Mt. Washington Auto Road. Lunch on both days will be up to each participant. Registration includes a \$50 non-refundable fee. Deadline for registration or refunds is May 30, 2010.

POPHAM BEACH

This spectacular sand beach and dune system features a well-developed dune flora with large areas of sand false heather. Just to the north, Atkins Bay includes a large saline marsh with a high diversity of interesting and state rare plants, including sea-coast tuber-bulrush, and Maine's only extant population of purple agalinis. Coastal halophytes, sedges, and interesting knotweeds will keep even the most avid botanists occupied. This day trip showcases one of Maine's most beautiful coastal locations and introduces some of the common and more difficult to identify members of this ecosystem. Bring clothes for the weather, a bag lunch, plenty of water, and your favorite botanical manual. There will be a small parking fee at Popham Beach.

Saturday, August 28, 10 a.m.-3 p.m.

Phippsburg, ME

Course Code: FDT3012

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

Fee: \$40 (Member) / \$45 (Nonmember)

Limit: 15 **Credit:** Field-all certificates

WORLD'S END

This 275-acre peninsula is well known for the beauty of its landscape and its views of Boston Harbor. It has a remarkable variety of naturalized as well as native flora. Woodlands include communities dominated by Norway maple and English oak as well as native red oak and hop hornbeam. Old fields and thickets contain an exceptional diversity of herbaceous plants, including rare showy goldenrod. Lowland habitats have both freshwater wetlands and salt marshes. We visit a variety of communities from the high points of the property's open drumlins to

field trips

World's End cont.

rocky coves and shaded overlooks. We look at both native and naturalized flora, and at the dynamics of their coexistence in this unique environment. Bring a bag lunch and a hand lens if you have one.

Saturday, August 28, 10 a.m.-1 p.m.

Hingham, MA

Course Code: FDT1026

Leader: Jessica Korecki, NEPCoP
Administration Coordinator, New England
Wild Flower Society

Fee: \$24 (Member) / \$27 (Nonmember)

Limit: 15 **Credit:** Field-all certificates

Cosponsor: The Trustees of Reservations

EXPLORING EAST MOUNTAIN.

East Mountain is part of a long trap rock (basalt) ridge that extends from central Connecticut just west of Hartford to Mt. Tom in Holyoke, Massachusetts. Many sections of this ridge support a rich and diverse flora, with a high number of uncommon or rare plant species. We explore one section of this ridge — the beautiful, upland oak-hickory forest along the Westfield/West Springfield town line. Among the many species we hope to find are *Aureolaria pedicularia*, *A. virginica*, *Viola pedata*, both species of *Chimaphila*, *Asplenium platyneuron*, numerous different *Desmodiums*, and a wide variety of *Asteraceae*. Though the ascent is somewhat strenuous, the pace will be leisurely. Wear sturdy hiking boots. Bring bag lunch, water, field guides, insect repellent.

Sunday, August 29, 10 a.m.-3 p.m.

Westfield, MA

Course Code: FDT2009

Leaders: Arieh Tal and Nancy Goodman,
naturalists

Fee: \$40 (Member) / \$45 (Non-member)

Limit: 15 **Credit:** Field-all certificates

PLUM ISLAND FLORA

Explore the different habitats of Plum Island and learn what grows where and why. We investigate the salt marsh, dune, and beach communities, concentrating on forty to fifty distinctive (to the botanist's eye) plant species. And if we see a bird or two we will look at it as well. Bring a 10x hand lens, *Newcomb's Wildflower Guide*, lunch, water, and if you have them, binoculars.

Sunday, September 19, 9:30 a.m.-2 p.m.

Newburyport, MA

Course Code: FDT1005

Instructor: Frances Clark, botanist, principal,
Carex Associates, Inc.

Fee: \$36 (Member) / \$41 (Nonmember)

Limit: 15 participants

Credit: Field-all certificates

HAROLD PARKER PTERIDOPHYTES

The Harold Parker State Forest is a large conservation area near Andover, MA. Visiting the southern section with a large pond, hills, and swamps, we expect to see more than two dozen ferns and club-mosses. We anticipate the hybrid ground cedar club-moss, ebony spleenwort, perhaps fragile fern, a *Woodsia*, and a few hybrid *Dryopteris*. Wear long pants, and bring insect repellent, a bag lunch, and a hand lens if you have one.

Sunday, September 26, 11 a.m.-3 p.m.

Andover, MA

Course Code: FDT1097

Leaders: Don Lubin and Ray Abair, fern
enthusiasts

Fee: \$32 (Member) / \$36 (Nonmember)

Limit: 15 **Credit:** Field-all certificates

children & families

ALL PROGRAMS AT GARDEN IN THE WOODS, FRAMINGHAM, MA



FAIRIES IN THE GARDEN

Let's use our sharpest senses to find where tiny woodland fairies might be living in our Garden. Maybe under the Lady's slipper orchids? Perhaps near the Fairybell wildflowers? Listen to a story about woodland fairies, take a walk to look at wildflowers with a magical fairy connection, and build a fairy house for the Garden and one to take home.

Wednesday, May 26, 3:30-5:30 p.m.

Children in Grades K-2

Course Code: CHP9200

Instructor: Bonnie Drexler, Education Director

Fee: \$12 (Member) / \$14 (Nonmember)

Limit: 12

PREDATORS AND PREY

Plants make their own food, but animals must eat! In nature, the "eaters" and the "eaten" keep a kind of balance, so that both may survive. Discover which animals eat which other animals here at the Garden, in our ponds, streams, and woodlands. How do predators catch their prey? How can animals without sharp teeth and claws escape hungry hunters? Are there any "good guys" and "bad guys" in nature? Through careful observation and role playing, learn some surprises about our animal neighbors.

Wednesday, June 23, 3:30-5:30

Children in grades 2-5

Course Code: CHP5600

Fee: \$12 (Member) / \$14 (Nonmember)

Limit: 12

FROG 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, April 1, 6:30-8 p.m.

Children with Adult Companion

Course Code: FAM3700

Instructor: Bonnie Drexler, Education Director

Fee: \$8 (Member) / \$10 (Nonmember) per person, for each adult and for each child

Limit: 24

children & families

CATTAIL NATURE KIDS

Cattail Nature Kids offers children an exciting way to experience nature's wonders and have fun at the same time. Garden in the Woods is ours to explore, including ponds, streams, forests and all their plant and animal inhabitants. Each day includes hands-on science activities, games, and crafts.

Search the pond edge for frogs and turtles, dip in its waters for newts and pond life, create many nature-inspired crafts such as insect habitats and t-shirts, visit with creatures of the forest floor, marvel at natural wonders with our powerful stereo-microscopes and much more. We meet each day, rain or shine. Each child should bring a small snack with a drink.

Instructor: Bonnie Drexler, Education Director

Fee: \$95 (Member) / \$110 (Nonmember)

Limit: 12

Choose from these four-day sessions:

Tuesdays through Fridays

July 20, 21, 22, 23, 9:30 a.m.-noon

Ages 5-6

Course Code: CHP8500

July 27, 28, 29, 30, 9:30 a.m.-noon

Ages 7-9

Course Code: CHP8501

August 3, 4, 5, 6, 9:30-noon

Ages 7-9

Course Code: CHP8502

POND DIPPING WITH YOUR CHILD

What splashes into the pond just as you come near? How hard is it to catch a dragonfly? Do you know any plants that like "wet feet"? What is the scummy green stuff

that grows in ponds? Who is eating the water lilies? What can we catch in our dip nets? Come along together and enjoy what a lovely lily pond can offer curious children on a summer's morning.

Wednesday, August 11, 10 a.m.-noon

Children with Adult Companion

Course Code: FAM5040

Fee: \$8 (Member) / \$10 (Nonmember) per person, for each adult and for each child

Limit: 24

ANIMAL AMBASSADORS

Live Animal Programs for Children with Adult Companion. More information at www.newenglandwild.org/learn/children

Fee for ages 3+:

\$4 (Member) / \$5 (Nonmember)

You may pay at the door. Rain or Shine

JUNGLE ENCOUNTERS

Monday, June 21, 10-11 a.m.

RAPTORS, BIRDS OF PREY

Monday, July 19, 10-11 a.m.

RAIN FOREST REPTILE SHOW

Monday, August 9, 10-11 a.m.



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 TELEPHONE OR FAX

Credit card registrations (MasterCard or Visa) can be made by calling the Registrar at 508-877-7630, ext. 3303, or by faxing to 508-877-3658.

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: To cancel and receive a refund, you must withdraw at least one week before a course's start date. 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. Ten percent of the registration fee (minimum of \$5) will be deducted from all refunds, excluding classes cancelled by the Society, except where otherwise noted. No cancellation fee will be assessed if the course fee is less than \$10.

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:

- 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
- Up to 20% discount on hundreds of courses, workshops, symposia, and field trips. **Join when you register for immediate discounts on courses.** (See course registration form on page 32.)

- Subscriptions to the Society's publications
- Borrowing privileges at our 4,000-volume botanical library
- Discounts at select New England and mail-order nurseries

Membership levels

- Individual \$50
- Dual \$60
- Family/Friends \$70

For more information on membership benefits, Corporate Membership, and discounted Associate and Student memberships, please contact Karen Pierce, Development and Membership Director, at 508-877-7630, ext. 3801, kpierce@newenglandwild.org.

New Zealand Expedition

November 6–20, 2010

Sponsored by New England Wild Flower Society



An outstanding introduction to the
flora, fauna, and natural heritage of New Zealand

Information at www.newenglandwild.org/learn

NEW ENGLAND WILD FLOWER SOCIETY

HEADQUARTERS & GARDEN IN THE WOODS

180 Hemenway Road

Framingham, Massachusetts 01701-2699

NON-PROFIT ORGANIZATION

U.S. POSTAGE PAID

MARSHFIELD, MA

PERMIT NO. 3

ADDRESS SERVICE REQUESTED