

FALL/WINTER 2017

NEW ENGLAND
WILD
FLOWER
SOCIETY



learn+grow

THE PROGRAMS OF NEW ENGLAND WILD FLOWER SOCIETY



*Conserving and promoting
New England's native plants
to ensure healthy, biologically
diverse landscapes*

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

Founded in 1900, the Society is the nation's oldest plant conservation organization and a recognized leader in native plant conservation, horticulture, and education.

The Society has its headquarters at Garden in the Woods, a renowned native plant botanic garden in Framingham, Massachusetts, that attracts visitors from all over the world. From this base, 25 staff and 750 volunteers work throughout New England to monitor and protect rare and endangered plants, collect and preserve seeds to ensure biological diversity, detect and control invasive species, conduct research, and offer a range of educational programs.

The Society also operates a native plant nursery at Nasami Farm in western Massachusetts and has six sanctuaries in Maine, Massachusetts, New Hampshire, and Vermont that are open to the public.



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On the Cover

Common milkweed (*Asclepias syriaca*)
Photo by Dan Jaffe, New England Wild Flower Society

Continuing Education Units (CEUs)

Many of our programs qualify for continuing education units. Below is a list of CEUs we offer. Visit www.newenglandwild.org/programs for a list of qualifying programs.

AOLCP - Northeast Organic Farming Association Accredited Organic Land Care Professionals

CFE - Society of American Foresters' Continuing Forestry Education

MCH - Massachusetts Certified Horticulturist

MCA - Massachusetts Certified Arborist



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certificates in native plant st

Whether you are interested in taking classes for fun, to add breadth and depth to your existing knowledge and skills, or to advance your career, our self-paced certificate programs in Native Plant Studies offer a unique opportunity to learn about the region's flora. Students enrolled in our certificate programs in Field Botany and Native Plant Horticulture and Design learn about identifying, cultivating, and conserving native New England plants while gaining a greater appreciation for their ecological importance. Students actively participate in ongoing public and private efforts to preserve and restore native New England flora. We offer programs for both Basic and Advanced certificates. To enter the Advanced program, students must complete the Basic Certificate or have enough experience to qualify for a Basic Certificate.

CERTIFICATE ORIENTATION WEBINAR

Watch this free webinar to learn about the curriculum and structure of the Society's certificate programs in Native Plant Studies.

Program Code: CER8000

FIELD BOTANY

Basic Curriculum

Eight Core Courses (all are required)

- Plant Form and Function
- Introduction to Plant Families
- New England Plant Communities
- Wildflowers of New England
- Framework Trees of New England
- Native New England Shrubs
- Field Identification Techniques
- Botanic Inventory Methods

Four Elective Classes

Four Botanical Field Studies

Fifteen Hours of Community Service

Students may volunteer with the Society or with a native plant or plant conservation-oriented organization.

Advanced Curriculum

Five Core Courses (all are required)

- Conservation Biology
- New England Plant Diversity Sessions 1-5
- Advanced Plant Inventory Techniques
- Invasive Plants: Identification, Documentation, and Control
- Basic Wetland Identification and Delineation

Four Elective Classes

Three Botanical Field Studies

Two Plant Diversity Workshops

Twenty-five Hours of Community Service

Students must complete a Native Plant Community Service Leadership Project. Projects must benefit the community and further the Society's mission.



ENROLL NOW!

Complete the certificate registration form on page 38 of this catalog or visit us online at www.newenglandwild.org/learn/certificate to learn more. There is a one-time certificate enrollment fee of \$30. Join the Society to receive discounts on programs.

CERTIFICATE CREDIT KEY

Most programs satisfy more than one requirement

FB=Field Botany basic

Adv.FB=Field Botany advanced

HD=Horticulture and Design basic

Adv.HD=Horticulture and Design advanced

Field=botanical, horticultural, or design field study

Core=Core Courses

Elective=Elective Classes

PDW=Design or Plant Diversity Workshop

HORTICULTURE AND DESIGN

Basic Curriculum

Nine Core Courses (all are required)

- Residential Landscape Design
- Horticultural Techniques
- Understanding and Managing Soils
- Plant Form and Function
- Wildflowers of New England
- Native Herbaceous Plant Materials: Early Season
- Native Herbaceous Plant Materials: Late Season
- Native Woody Plant Materials
- Native New England Shrubs

Four Elective Classes

Four Horticulture and Design Field Studies

Fifteen Hours of Community Service

Students may volunteer with the Society or with a native plant or plant conservation-oriented organization.

Advanced Curriculum

Four Core Courses (all are required)

- Landscape for Life
- Native Plants for Professionals
- New England Plant Communities
- Invasive Plants: Identification, Documentation, and Control

Four Elective Classes

Three Horticulture and Design Field Studies

Two Design Workshops

Twenty-five Hours of Community Service

Students must complete a Native Plant Community Service Leadership Project. Projects must benefit the community and further the Society's mission.

online learning

DESIGNING WITH NATIVE PLANTS

This entirely self-paced online course will teach you the basics of designing with native plants and show you how to incorporate native plants into your garden and landscape. Discover the variety of native plants found throughout New England and learn how to design a visually interesting landscape that also supports biodiversity. Students complete the course at their own pace.

Class access begins Monday, November 13, 2017, and will continue until Sunday, April 6, 2018

Program Code: HORO100

Fee: \$70 (Member)/\$85 (Nonmember)

Certificate: Elective: HD/Adv.HD

WEBINARS

Join us for live or on-demand webinars to learn about plant conservation, gardening, native plants, and more. Watch three live webinars to earn one elective class.

RHODE ISLAND PLANT COMMUNITIES

There are many different plant communities in Rhode Island. We will discuss their distinguishing characteristics and explore the common species found in each. This webinar offers a great introduction to the diverse flora of New England.

Tuesday, September 12, 2017, 6-7 p.m.

Program Code: BOTW503

Instructor: Laney Widener, botanical coordinator, New England Wild Flower Society

Fee: \$10 (Member)/\$13 (Nonmember)

Certificate: Elective: FB/Adv.FB

HOW TO PROPAGATE NATIVES

Many propagation classes focus exclusively on how to propagate plants and neglect to explain which species will give new propagators the best results. For instance, if you try sowing 100 seeds of *Chimaphila maculata*, you'll be lucky if two germinate. However, 100 seeds of *Agastache foeniculum* may yield more than 90 seedlings. Join Dan Jaffe to learn which plant species to propagate as well as how to do it.

Monday, October 2, 2017, 6:30-7:30 p.m.

Program Code: HORW336

Instructor: Dan Jaffe, propagator and stock bed grower, New England Wild Flower Society

Fee: \$10 (Member)/\$13 (Nonmember)

Certificate: Elective: HD/Adv.HD



Shagbark hickory (*Carya ovata*)

VERMONT PLANT COMMUNITIES

There are many different plant communities in Vermont. We will discuss their distinguishing characteristics and explore the common species found in each. This webinar offers a great introduction to the diverse flora of New England.

Tuesday, October 3, 2017, 6-7 p.m.

Program Code: BOTW504

Instructor: Laney Widener, botanical coordinator, New England Wild Flower Society

Fee: \$10 (Member)/\$13 (Nonmember)

Certificate: Elective: FB/Adv.FB

CHOOSING NATIVE TREES FOR YOUR LANDSCAPE

Planting a tree on your property is a lifetime commitment. Choose wisely and you—and the tree—will be happy for decades. Choose poorly and you both may be miserable. Learn how to identify the best native trees for your landscape and gain some practical tips for selecting healthy trees at the nursery.

Wednesday, November 8, 2017, 6:30-7:30 p.m.

Program Code: HORW337

Instructor: Mark Richardson, botanic garden director, New England Wild Flower Society

Fee: \$10 (Member)/\$13 (Nonmember)

Certificate: Elective: HD/Adv.HD

WINTER WARMERS AND COZY COCKTAILS

There are many tasty wild edibles out there—but how about the drinkables? Join Dan Jaffe to learn which native species you can put in your cocktail glass. As the November chill descends, we'll focus on warm flavors and warm temperatures.

Tuesday, November 14, 2017, 6:30-7:30 p.m.

Program Code: HORW338

Instructor: Dan Jaffe, propagator and stock bed grower, New England Wild Flower Society

Fee: \$10 (Member)/\$13 (Nonmember)

Certificate: Elective: HD/Adv.HD

NEW HAMPSHIRE PLANT COMMUNITIES

There are many different plant communities in New Hampshire. We will discuss their distinguishing characteristics and explore the common species found in each. This webinar offers a great introduction to the diverse flora of New England.

Wednesday, November 15, 2017, 6-7 p.m.

Program Code: BOTW505

Instructor: Laney Widener, botanical coordinator, New England Wild Flower Society

Fee: \$10 (Member)/\$13 (Nonmember)

Certificate: Elective: FB/Adv.FB

online learning

CHOOSING NATIVE SHRUBS FOR YOUR LANDSCAPE

Shrubs are the backbone of any good garden design, providing structure to the landscape, habitat for nesting birds, and often a burst of fall color. Learn how to choose the right native shrubs to add interest to your garden in any season.

Wednesday, December 6, 2017, 6:30-7:30 p.m.

Program Code: HORW339

Instructor: Mark Richardson, botanic garden director, New England Wild Flower Society

Fee: \$10 (Member)/\$13 (Nonmember)

Certificate: Elective: HD/Adv.HD

PRESERVING NATIVE PLANT KNOWLEDGE

This webinar offers a glimpse into the possibilities for health and healing when indigenous plant knowledge and Western science are combined to demonstrate the benefits of wild plants to humans. Research botanist Arthur Haines will explain the idea



of “conservation through use,” with examples from the New England landscape.

Tuesday, December 12, 2017, 1-2 p.m.

Program Code: BOTW509

Instructor: Arthur Haines, research botanist, New England Wild Flower Society; author of *Flora Novae Angliae*

Fee: \$10 (Member)/\$13 (Nonmember)

Certificate: Elective: FB/Adv.FB

WILD AND WONDERFUL NATIVES

Join Dan Jaffe for a crash course on all things weird in the native flora. We’ll explore the wild and wonderful world of native plants, from the toxic sap of monkshood to the armature of honey locust and odd survival strategies.

Wednesday, January 24, 2018, 6:30-7:30 p.m.

Program Code: HORW340

Instructor: Dan Jaffe, propagator and stock bed grower, New England Wild Flower Society

Fee: \$10 (Member)/\$13 (Nonmember)

Certificate: Elective: HD/Adv.HD

SUSTAINABLE SEED COLLECTION OF COMMON NATIVE SPECIES

Join Michael Piantedosi to explore the world of ex-situ conservation and seed collection methods. We’ll discuss the process for collecting native New England seeds in the wild and methods for maintaining a sustainable harvest without harming extant populations.

Thursday, February 8, 2018, 6:30-7:30 p.m.

Program Code: BOTW511

Instructor: Michael Piantedosi, NEPCoP/seed bank coordinator

Fee: \$10 (Member)/\$13 (Nonmember)

Certificate: Elective: HD/Adv.HD

online learning

OUR DYNAMIC FLORA

This class will cover the criteria botanists use to determine whether plants are native to a region or introduced. Research botanist Arthur Haines will explain the shortcomings of each criterion to help explain the need for using suites of criteria. Given that the flora has always been changing (and likely always will), static benchmarks are problematic. The class will also include a brief discussion of global biodiversity and the problem of human-centric viewpoints.

Wednesday, February 21, 2018, 1-2 p.m.

Program Code: BOTW510

Instructor: Arthur Haines, research botanist, New England Wild Flower Society; author of *Flora Novae Angliae*

Fee: \$10 (Member)/\$13 (Nonmember)

Certificate: Elective: FB/Adv.FB

NEW ENGLAND PLANT CONSERVATION IN PRACTICE

Join the Society's conservation staff to discuss methods for applied plant conservation in New England. Laney, Michael, and Bill will discuss current management practices, ex-situ conservation, citizen science, volunteer programs, and their work with the rare and endangered flora of New England.

Wednesday, February 21, 2018, 3-4:30 p.m.

Program Code: BOTW502

Instructor: conservation staff, New England Wild Flower Society

Fee: \$10 (Member)/\$13 (Nonmember)

Certificate: Elective: FB/Adv.FB



Blue cohosh (*Caulophyllum thalictroides*)

WEAVING TEXTURE INTO THE GARDEN

Join Dan Jaffe to learn how to weave texture into the garden to enhance your existing blooms. Flowers are one of the beautiful plant features of our native flora, but what about the others? Discover how the emerging leaves of blue cohosh, the muscular bark of musclewood, or a swath of fiddleheads can add texture to your garden.

Wednesday, February 28, 2018, 6:30-7:30 p.m.

Program Code: HORW341

Instructor: Dan Jaffe, propagator and stock bed grower, New England Wild Flower Society

Fee: \$10 (Member)/\$13 (Nonmember)

Certificate: Elective: HD/Adv.HD

online learning

CREATING NATIVE NEIGHBORHOODS: WORKING TOGETHER TO CONNECT THE HABITAT DOTS

Join Rebecca Lindenmeyr for this exciting webinar series geared toward individual property owners and community representatives (e.g., condo and homeowner associations, town conservation committee members). Rebecca will address how to:

- Improve the habitat value of your designed landscape
- Reduce annual maintenance inputs and costs
- Increase your property's resilience in response to climate change
- Integrate native plant community design on a multiproperty scale
- Address stormwater and poor drainage issues while reducing erosion and protecting water quality
- Create opportunities for community interaction and nature observation with habitat trails.

Webinar access begins January 3, 2018, and will continue until March 31, 2018

Program Code: HORW342

Instructor: Rebecca Lindenmeyr, co-principal of Linden L.A.N.D. Group, landscape designer, VCH, WELL AP

Fee: \$40 (Member)/\$50 (Nonmember)

Certificate: Elective: HD/Adv.HD

SESSION 1: THE BENEFITS OF NATIVE NEIGHBORHOODS

What connected habitat strips (i.e., biodiversity corridors) look like and why we need them

Available on Demand

SESSION 2: GATHERING SUPPORT FOR AN EMERGING AESTHETIC

How to communicate the science, network with decision-makers, find funding, and gain acceptance

Available on Demand

SESSION 3: PUTTING THE PIECES TOGETHER

An overview of the design process from concept plan to installation estimate, and the practicalities of converting lawns to meadows and restoring woodlands

Available on Demand

SESSION 4: LIVE QUESTION-AND-ANSWER SESSION

Join Rebecca for a live question-and-answer session.

Saturday, March 24, 2018, 4-5 p.m.

online learning

GREAT HABITATS OF THE NORTHEAST

Building on the popular habitat series offered last winter, Elizabeth Farnsworth, senior research ecologist for New England Wild Flower Society, will introduce you to some of the truly special New England habitats and discuss their ecology and distinctive plant life.

Fee: \$10 (Member)/\$13 (Nonmember)

Certificate: Elective: FB/Adv.FB

AQUATIC PLACES

Learn about aquatic plants and the amazing adaptations that enable them to live their lives almost entirely underwater. Visit lakes, streams, and other wet places to explore the native and invasive inhabitants of our waterways.

Tuesday, January 23, 2018, 12-1 p.m.

Program Code: BOTW506

ROCKY OUTCROPS AND TALUS SLOPES

Discover the wild and rocky places of the Northeast, where bedrock intersects with climate to determine the hardy plant communities that can survive on mountain summits or in the interstices of rocks, eking out a living with little available soil.

Tuesday, January 30, 2018, 12-1 p.m.

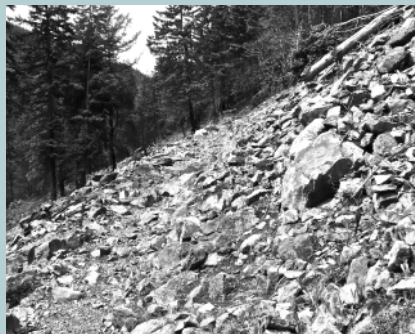
Program Code: BOTW507

BOGS AND FENS

The soggy places around our region harbor fascinating, rich, and unusual plant communities. Find out how diverse wetlands are characterized, encounter carnivorous plants and calcium-loving species, and learn how plants adapt to having wet feet all year round.

Tuesday, February 6, 2018, 12-1 p.m.

Program Code: BOTW508



Talus slope, by Peter Stevens

ON-DEMAND WEBINARS

On-demand webinars are available to members only and are free of charge. These webinars can be accessed on any date at any time. Visit the "Our Programs" page on our website at newenglandwild.org to register for our current offerings. Not a member? Find out how to become one on page 37!

botany + conservation

ADVANCED PLANT INVENTORY TECHNIQUES

This course will cover the procedures and techniques for conducting a botanical inventory on conservation land. Following an evening session, during which we will review research and sampling methods, we will spend a full day in the field inventorying the vascular plants on an ecologically diverse site. On the second evening, we will review our results, identify plants that were puzzling in the field, and compile a complete list of our findings.

Thursdays, August 3, 10, 6:30 -8:30 p.m.;

Sunday, August 6, 2017, 10 a.m.-4 p.m.

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

Program Code: BOT2055

Instructor: Ted Elliman, botanist and author of *Wildflowers of New England*

Fee: \$160 (Member)/\$200 (Nonmember)

Limit: 16

Certificate: Core: Adv.FB; Elective: all certificates



NATURAL COMMUNITY SURVEY TECHNIQUES

Learn how to prepare, execute, and create a natural plant community survey report for a conservation property. The class will cover how to identify plant communities based on state community classifications and how to determine rarity and quality rankings of natural community types. We will begin by looking at resources for planning and then discuss how to conduct and prepare for field work. Next, we will spend a day in the field mapping plant communities. After this field session, we will meet in the classroom to review how to summarize data and create a professional report of findings. For the field sessions, bring a bag lunch, water, a compass, a clipboard, a camera, and a GPS unit if you have one. This class is geared for professionals, conservation commissioners, and land trust members. Some plant identification knowledge is required.

Wednesdays, August 23, 30, 6:30-8:30 p.m.;

Saturday, August 26, 2017, 10 a.m.-4 p.m.

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

Program Code: BOT4009

Instructor: Patricia Swain Rice, natural community ecologist

Fee: \$106 (Member)/\$128 (Nonmember)

Limit: 18

Certificate: Elective: FB/Adv.FB

Sponsor: Massachusetts Association of Conservation Commissions

NEW ENGLAND PLANT DIVERSITY

Keeping up with changes in plant names can be challenging, but it reflects our expanding understanding of the plant kingdom based on genetics, a closer look at plant form, and new ways of analyzing relationships. Learn how to make sense of the new plant universe from one of the best botanists in the field, Arthur Haines. We suggest starting with Session 1. Sessions 2-5 may be taken in any order. Bring a copy of *Plant Systematics: A Phylogenetic Approach* to class.

Garden in the Woods, Framingham, MA

Instructor: Arthur Haines, research botanist, New England Wild Flower Society; author of *Flora Novae Angliae*

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

Limit: 20

Certificate: Core: Adv.FB; Elective: all certificates



Maidenhair fern (*Adiantum pedatum*)

SESSION 5

In this session, students will gain insight into the breadth and complexity of plant identification. Hybridization and phylogeny will be discussed to provide a deeper appreciation for the role of evolutionary history in understanding organismal relationships.

Sunday, August 27, 2017, 1-4 p.m.

Program Code: BOT2246

SESSION 1

This class will study the vocabulary needed to understand plant identification and classification based on vegetative and reproductive structures. An introduction to plant nomenclature, phylogeny, and scientific names will also be provided.

Sunday, September 24, 2017, 1-4 p.m.

Program Code: BOT2205

SESSION 2

In this class, students will examine tracheophyte families, starting with free-sporing plants (e.g., ferns) and ending with three major groups of seed plants: nonflowering seed plants (i.e., conifers); magnoliids (i.e., primitive dicots); and monocots.

Sunday, November 19, 2017, 1-4 p.m.

Program Code: BOT2230

SESSION 3

This class will focus on tracheophyte families referred to as the tricolpates (i.e., most dicot plants). Discussion will include primitive tricolpates (e.g., Ranunculaceae, Papaveraceae, Maranthaceae) and eurosids (e.g., Rosaceae, Betulaceae, Brassicaceae).

Sunday, March 25, 2018, 1-4 p.m.

Program Code: BOT2236

SESSION 4

In this class, students will investigate advanced tricolpate families, often referred to as euasterids (e.g., Lamiaceae, Plantaginaceae, Campanulaceae, Asteraceae).

Coming spring/summer 2018

Program code: BOT2240



Turkey tail mushroom

NATIVE NEW ENGLAND SHRUBS

Shrubs vary widely in size, shape, color, bark, flower, and fruit. This course will introduce you to almost 50 native New England shrub species, emphasizing plant identification, family characteristics, and historical plant uses. Bring a hand lens. Weekend sessions will be held off-site; directions will be provided during the first class.

Thursdays, September 7, 14, 21, 6:30-8:45 p.m.; **Sundays, September 10, 17, 2017, 9 a.m.-1:30 p.m.**

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

Program Code: BOT3300

Instructor: Roland "Boot" Boutwell, naturalist

Fee: \$200 (Member)/\$250 (Nonmember)

Limit: 16

Certificate: Core: FB/HD; Elective: all certificates

MUSHROOMS FOR BEGINNERS

Mushrooms are tremendously diverse and play an important ecological role. In this class, we will first learn about basic fungal biology and identification and then head out to the Garden for a mushroom foray. After lunch, we will identify our finds using field guides and microscopes. Bring a bag lunch and a hand lens if you have one.

Saturday, September 9, 2017, 10 a.m.-2 p.m.

Garden in the Woods, Framingham, MA

Program Code: BOT3813

Instructor: David Hibbett, mycologist, Clark University

Fee: \$50 (Member)/\$62 (Nonmember)

Limit: 12

Certificate: Elective: FB/Adv.FB

WILDFLOWERS OF FALL

Fall-booming New England natives are the swan song of the growing season, with the explosion of asters, goldenrods, and others providing a last burst of color before winter. In this quick introduction to fall favorites, you will learn to identify flowers, habitats, and pollinators through a combination of classroom instruction and a walk in the field at the Garden. Bring a hand lens and a copy of *Wildflowers of New England*.

Saturday, September 16, 2017, 10 a.m.-1 p.m.

Garden in the Woods, Framingham, MA

Program Code: BOT4012

Instructor: Neela de Zoysa, botanist

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

Limit: 20

Certificate: Elective: all certificates

Cosponsor: Mass Audubon

INTRODUCTION TO BOTANY

Learn botany from dedicated instructor and plant nomenclature specialist Kanchi Gandhi. Among the topics to be explored: plant cells and tissues, anatomy and morphology, reproduction, nutrition, growth and development, plant diversity, evolution, classification, and nomenclature. This course includes both lecture and laboratory activities and is suitable for beginning botanists or those seeking a refresher course. Required text: *Botany for Gardeners* by Brian Capon.

Tuesdays, September 19, 26, October 3, 10, 17, 24, November 7, 14, 2017, 6:30-8:30 p.m.

Harvard University Herbarium, Cambridge, MA

Program Code: BOT1010

Instructor: K. N. Gandhi, botanist, Harvard University Herbaria

Fee: \$225 (Member)/\$270 (Nonmember)

Limit: 20

Certificate: Core: FB/HD; Elective: all certificates

Cosponsor: The Arnold Arboretum of Harvard University

ASTERS AND GOLDENRODS

In late summer and early fall, asters and goldenrods come into their own. The morning discussion will include a presentation of the many asters and goldenrods in our region, focusing on their ecology and identification features. We will also examine specimens from the Society's herbarium. Later we'll visit a nearby natural area to identify the asters and goldenrods growing in the fields, woodlands, and wetlands. In the field, we'll look carefully at the differences that characterize these species. Bring a hand lens and a bag lunch.

Saturday, September 23, 2017, 9:30 a.m.-4 p.m.

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

Program Code: PDW4400

Instructor: Ted Elliman, botanist and author of *Wildflowers of New England*

Fee: \$86 (Member)/\$104 (Nonmember)

Limit: 18

Certificate: PDW: Adv.FB; Elective: all certificates

Cosponsor: Massachusetts Association of Conservation Commissions

PLANT FORM AND FUNCTION

In this introduction to botany, you will learn the basics of plant anatomy and physiology and study the fundamentals of the plant kingdom through slides and live materials. Microscopic study will provide a close look at roots, stems, leaves, and their component tissues. You will examine flowers, fruits, and seeds and discuss pollination, fertilization, dispersal, and germination, with an emphasis on the relationship between plant form and function.

Thursdays, September 28, October 5, 12, 19, 26, November 2, 2017, 6:30-9 p.m.

Garden in the Woods, Framingham, MA

Program Code: BOT1000

Instructor: Nancy M. Eyster-Smith, Ph.D., botanist

Fee: \$200 (Member)/\$250 (Nonmember)

Limit: 14

Certificate: Core: FB/HD; Elective: all certificates



Elliott's goldenrod (*Solidago latissimifolia*)

FRAMEWORK TREES OF NEW ENGLAND

Forests are a dominant feature of the New England landscape. Join us as we explore the history, changes in composition, and ecology of the region's forest from the Ice Age through European settlement. Learn to identify native trees, their habitats, and their communities. Explore the impact of natural and human disturbances on the forested landscape and learn to recognize stands of different ages. The course includes two weekend field trips.

Tuesdays, October 3, 10, 17, 24, 6:30-8:30 p.m.; **Saturday, October 14, 12-4 p.m.;**
Saturday, October 21, 2017, 9 a.m.-1 p.m.

Garden in the Woods, Framingham, MA;
Harvard Forest, Petersham, MA; The Arnold Arboretum, Boston, MA

Program Code: BOT3200

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

Fee: \$246 (Member)/\$290 (Nonmember)

Limit: 16

Certificate: Core: FB; Elective: all certificates

PORTRAIT OF A PLANT IN WATERCOLOR

Learn to capture a plant in its environment by painting botanical shapes and forms in watercolors with an emphasis on design and composition. This step-by-step instruction will introduce you to the spontaneity of the medium as you create textures, highlights, glazes, and the final artwork. Materials not included.

Thursdays, October 5, 12, 19, November 2, 9, 16, 2017, 10 a.m.-12:30 p.m.

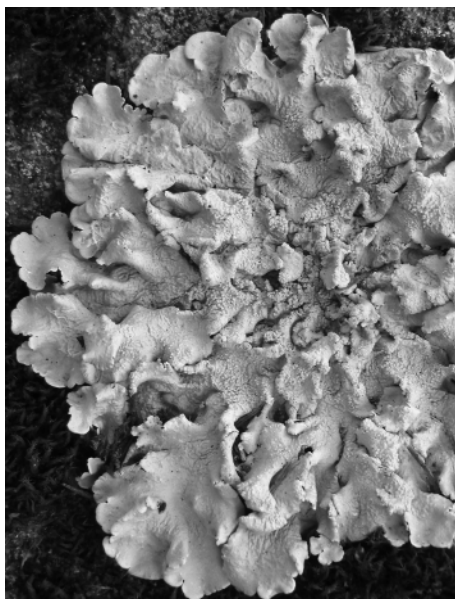
Garden in the Woods, Framingham, MA

Program Code: ART8011

Instructor: Cecilia Sharma, artist and designer

Fee: \$200 (Member)/\$230 (Nonmember)

Limit: 12



Common green shield lichen (*Flavoparmelia caperata*) © Jason Hollinger

INTRODUCTION TO LICHENS

Discover the fascinating world of lichens. This introduction includes a work session in which stereoscopes, spot tests, and keys will be used to study collections of the three lichen growth forms. An afternoon walk to a local site where lichens are colonizing soil, rock, and bark will offer the class a chance to practice distinguishing lichens in the field. Bring a bag lunch and a 10x hand lens.

Saturday, October 14, 2017, 9 a.m.-3:30 p.m.

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

Program Code: BOT3600

Instructor: Elizabeth Kneiper, lichen enthusiast

Fee: \$86 (Member)/\$104 (Nonmember)

Limit: 15

Certificate: Elective: FB/Adv.FB



Labrador tea (*Rhododendron groenlandicum*)

MORE SHRUBS

This course will begin where the core course, Native New England Shrubs, left off. Using the Garden as our field site, we will learn about 15 shrubs not usually covered in the core course, including beach plum, mountain holly, and Labrador tea. The class will emphasize both identification and natural history. Bring a bag lunch and a hand lens if you have one.

Sunday, October 15, 2017, 10 a.m.-2 p.m.

Garden in the Woods, Framingham, MA

Program Code: BOT8307

Instructor: Roland "Boot" Boutwell, naturalist

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

Limit: 16

Certificate: Elective: FB/Adv.FB

Cosponsor: Massachusetts Association of Conservation Commissions

FAGACEAE FAMILY

Learn about the general characteristics and historical importance of this woody plant family, which includes oaks and their relatives, beeches, and American chestnuts. After an introduction to woody plants, we'll discuss plant features that are useful for understanding and comparing plant families, then examine acorns, twigs, and leaves to learn to distinguish among the common oaks in the area. Later, we'll walk through the Garden to look at form, bark, leaves, and growth habit.

Monday, October 16, 2017, 10 a.m.-2 p.m.

Garden in the Woods, Framingham, MA

Program Code: BOT2314

Instructor: Carol Govan, naturalist

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

Limit: 16

Certificate: PDW: Adv.FB; Elective: all certificates

INVASIVE PLANTS: IDENTIFICATION, DOCUMENTATION, AND CONTROL

What's all the fuss? Botanists, ecologists, horticulturists, and conservation professionals are united in their concern about invasive plants, but there is still some confusion about what they are and what to do about them. In this class, you will study the basic ecological problems created by these aggressive species and the complicated issues involved in controlling them. You will learn to identify many of New England's invasive species through images, specimens, and a local field visit. Bring a bag lunch and a hand lens; wear waterproof shoes and dress appropriately for the weather.

Friday, October 20, 6:30-8:30 p.m.; Saturday, October 21, 2017, 10 a.m.-4 p.m.

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

Program Code: BOT5130

Instructor: Ted Elliman, botanist and author of *Wildflowers of New England*

Fee: \$124 (Member)/\$145 (Nonmember)

Limit: 16

Certificate: Core: Adv.FB/Adv.HD; Elective: all certificates

Sponsor: Massachusetts Association of Conservation Commissions



Yellow birch (*Betula alleghaniensis*)

BETULACEAE FAMILY

Several interesting woody trees and shrub species form the Betulaceae family, which includes birches and their relatives, alders, hazelnuts, and hornbeams. Their wind-pollinated flowers, although inconspicuous, are very interesting, as is their method of seed dispersal. This course provides an overview of what to look for when studying plant families. We will examine similarities and differences among genera and individual species, then head outdoors to explore members of this family in the Garden.

Monday, October 23, 2017, 10 a.m.-2 p.m.

Garden in the Woods, Framingham, MA

Program Code: BOT2313

Instructor: Carol Govan, naturalist

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

Limit: 16

Certificate: PDW: Adv.FB; Elective: all certificates

TAKIN' IT TO THE STREETS: HOW TO CONVEY THE FASCINATION OF PLANTS TO A GENERAL AUDIENCE

Elizabeth Farnsworth gives dozens of talks throughout the year to people aged 8 to 80. Join her for a hands-on workshop on how to encourage diverse audiences to appreciate the importance of plants—in the field, online, or in the lecture hall. Build confidence, learn how to balance the conversation, and get tips for communicating complex science. Bring your questions!

Thursday, November 16, 2017, 10 a.m.-12 p.m.

Garden in the Woods, Framingham, MA

Program Code: BOT8306

Instructor: Elizabeth Farnsworth, senior research ecologist, New England Wild Flower Society

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

Limit: 20

Certificate: Elective: all certificates

WETLAND SHRUBS IN WINTER

No leaves? No problem! We will use a combination of branching patterns, bud and bark characteristics, habitat, persistent fruits, galls, and marcescent leaves to identify wetland shrubs in winter. With a pond, a stream, and a bog, Garden in the Woods provides an excellent field site for studying wetland shrubs. We'll begin with a short session indoors, then head into the Garden for a close look at 15–20 native New England shrubs that grow in and around wetlands. The class will include some fun and interesting natural history. Bring lunch and a hand lens, if you have one.

Wednesday, November 29, 2017, 10 a.m.-2 p.m.

Garden in the Woods, Framingham, MA

Program Code: WET3020

Instructor: Roland “Boot” Boutwell, naturalist

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

Limit: 12

Certificate: Elective: FB/Adv.FB

Cosponsor: Massachusetts Association of Conservation Commissions

CONSERVATION BIOLOGY

In this introduction to conservation biology and biodiversity, you will learn what makes a species vulnerable to extinction and which strategies and tools can be used to protect plants and ecosystems. We will explore the interdisciplinary nature of conservation biology through readings, group exercises, and video clips. Participants will receive a bibliography of resources for further study. Bring a bag lunch.

Sundays, January 7, 14, 21, 2018, 10 a.m.-3:30 p.m.
(**Snow date:** January 28)

Garden in the Woods, Framingham, MA

Program Code: BOT5100

Instructor: Nancy M. Eyster-Smith, Ph.D., botanist

Fee: \$254 (Member)/\$300 (Nonmember)

Limit: 16

Certificate: Core: Adv.FB; Elective: FB

WINTER BOTANY

Investigate the taxonomic characteristics of deciduous, evergreen, and some herbaceous plants in winter. Students will learn to use a dichotomous key and then identify a large inventory of twig and plant specimens. After lunch, the class will head into the Garden. Bring a bag lunch, a hand lens, and a copy of *Fruit Key and Twig Key to Trees and Shrubs* by William M. Harlow. Take home plant specimens.

Saturday, January 13, 2018, 9:30 a.m.-3:30 p.m.

Garden in the Woods, Framingham, MA

Program Code: BOT3317

Instructor: William E. Kuriger, botanist

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

Limit: 30

Certificate: Elective: FB/Adv.FB

Cosponsor: Massachusetts Association of Conservation Commissions

SHRUBS IN WINTER

Even without leaves, many shrubs are still recognizable in late fall and winter. Learn to identify about 20 native New England shrubs through such characteristics as branching patterns, bark, persistent flowers and fruits, growth forms, galls, and habitats. We'll also consider the natural history of these shrubs. The program will begin indoors, then we'll head out into the Garden. Bring a bag lunch and a hand lens.

Sunday, January 28, 2018, 10 a.m.-2 p.m.

Garden in the Woods, Framingham, MA

Program Code: BOT3312

Instructor: Roland “Boot” Boutwell, naturalist

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

Limit: 16

Certificate: Elective: all certificates

Cosponsor: Massachusetts Association of Conservation Commissions

PLANT-SOIL INTERACTIONS: INTRODUCTION TO NUTRIENT CYCLING

Explore the cycling of nutrients through the Northeast ecosystem, with an emphasis on plant and soil functions and interactions. In this informal class, Alexis Doshas will discuss the role of soil microbes, chronic deposition, the implications of climate change for nutrient cycles, and the way plant-soil interactions shape our forests and plant communities.

Thursday, February 8, 2018, 6-7:30 p.m.

Nasami Farm Nursery, Whately, MA

Program Code: BOT8308

Instructor: Alexis Doshas, propagator and facilities coordinator, New England Wild Flower Society

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

Limit: 20

Certificate: Elective: all certificates

PLANT IDENTIFICATION TOOLS AND HOW TO USE THEM

Are you an amateur naturalist with an interest in botany but little understanding of how to identify plants? Join Laney Widener for this half-day crash course in plant identification. We will begin inside by reviewing the electronic and print tools for identifying plants, then head into the Garden to learn how to apply them

Saturday, February 10, 2018, 1-4 p.m.

Garden in the Woods, Framingham, MA

Program Code: BOT4014

Instructor: Laney Widener, botanical coordinator, New England Wild Flower Society

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

Limit: 16

Certificate: Elective: all certificates

VERNAL MUSTARDS

Members of the mustard family (Brassicaceae), both native and introduced, are among the earliest flowers to bloom in the spring. Using images and herbarium specimens, this presentation will discuss the identification features and habitats of a number of the species in this confusing and often overlooked group of wildflowers, including species of *Arabidopsis*, *Boechera*, *Brassica*, *Cardamine*, *Draba*, *Lepidium*, and several other mustard genera.

Saturday, March 31, 2018, 10 a.m.-2 p.m.

Garden in the Woods, Framingham, MA

Program Code: PDW3333

Instructor: Ted Elliman, botanist and author of *Wildflowers of New England*

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

Limit: 16

Certificate: PDW: Adv.FB; Elective: all certificates



Caescent willow-mustard (*Draba cerna*)



IN THE FIELD

Nothing beats the experience of seeing native plants in their natural environments. These expert-led excursions provide unique access to varied habitats and unusual native plants.

FIELD TRIP DIFFICULTY RATING

Easy

The hike covers mostly level ground and possibly a few gentle hills; walking surfaces are relatively smooth. Easy hikes are generally suitable for anyone who enjoys walking.

Easy/moderate

The hike is not flat, but the elevation gain is less than 500 feet per mile. Hikers should be prepared for some gentle uphill walking and possibly a few short, steeper sections.

Moderate

The hike ascends at a steady incline, usually 500-800 feet per mile, which would be unsuitable for someone not accustomed to hiking.

Moderate/difficult

The hike is challenging, with an average elevation gain of 500-800 feet per mile and some steeper sections or rougher walking conditions. This designation also describes hikes that are quite steep but relatively short.

Difficult

The hike features steep inclines and rough footing or rock scrambles. The gain in elevation averages more than 800 feet per mile and frequently reaches or exceeds 1,000 feet or more per mile.

BRAY LAKE AT MOUNT TOM

Mount Tom State Reservation is home to a rich variety of plants. We will walk along the lakeshore with its gorgeous wetlands, continue through uplands of rich, dry soils derived from volcanic (basalt) bedrock, and then head downhill into a floodplain with contrasting vegetation.

Habitat: wetlands and rich forest

Known for: rich forest, interesting composites, and sedges

Difficulty: moderate

Sunday, August 6, 2017, 10 a.m.-12:30 p.m.

Mount Tom State Reservation, Holyoke, MA

Program Code: FDT8024

Instructor: Elizabeth Farnsworth, senior research ecologist, New England Wild Flower Society

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

Limit: 15

Certificate: Field: FB/Adv.FB



Bray Lake at Mount Tom



Robert P. Tristram Coffin Wild Flower Reservation



COFFIN WILD FLOWER RESERVATION

This sanctuary is one of seven owned by the Society. Hilly woods, a brook, and 1,256 feet of sandy shore and tidal marsh make up the 177-acre sanctuary, which borders lovely Merrymeeting Bay, well-known for its diversity of waterfowl. This hike along the trails will take us through woodlands that border the east side of the bay to a large, old stand of bigtooth aspen and fascinating freshwater estuary plants that are limited to this rare habitat type. Bring binoculars if you have them; be prepared to get your feet wet!

Habitat: estuary and mixed hardwood-conifer forest

Known for: freshwater estuary plants

Difficulty: easy/moderate

Sunday, August 13, 2017, 11 a.m.-2:30 p.m.

Woolwich, ME

Program Code: FDT8029

Instructor: Ted Elliman, botanist and author of *Wildflowers of New England*

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

Limit: 16

Certificate: Field: FB/Adv.FB

LINCOLN POND BOG AT ASHBURNHAM STATE FOREST

Join Dr. Paul Somers for a walk through the bog at Lincoln Pond. We'll explore the bog vegetation, which includes many heaths, sedges, and spruce-fir and northern hardwood forests. If time allows, we will explore other bog sites nearby. Wear footwear for wet conditions. Bring a brown bag lunch.

Habitat: bog and spruce-fir and northern hardwood forests

Known for: black spruce, tamarack, pitcher plant, and heaths such as blueberry, velvet-leaved blueberry, large cranberry, Labrador-tea, bog laurel, and early azalea

Difficulty: easy

Saturday, August 19, 2017, 10 a.m.-2 p.m.

Ashburnham State Forest, Ashburnham, MA

Program Code: FDT8033

Instructor: Dr. Paul Somers, retired State Botanist, Massachusetts Natural Heritage & Endangered Species Program

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

Limit: 16

Certificate: Field: FB/Adv.FB



FLORA OF NEW ENGLAND COASTAL SAND DUNES

Parker River National Wildlife Refuge is home to extensive sandy beach and dune habitat where many shore birds and wildlife flourish amid the varied flora of the area. Join Seed Bank Coordinator Michael Piantedosi to discuss the plants of the salt marsh and sand dune habitats that make Parker River so unique.

Habitat: sandy beach/dune, salt marsh, coastal

Known for: more than 200 acres of sand dunes, Plum Island, and piping plover habitat

Difficulty: moderate

Saturday, September 16, 2017, 10 a.m.-1 p.m.

Parker River National Wildlife Refuge,
Newburyport, MA

Program Code: FDT8039

Instructor: Michael Piantedosi, NEPCoP/seed bank coordinator

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

Limit: 6

Certificate: Field: FB/Adv.FB

INSECTS AND WILDFLOWERS OF EAST LEVERETT MEADOW

Ever wonder how plants and insects interact beyond pollination and herbivory? Join George LoCascio to investigate insect and wildflower interactions. We'll begin with a brief outdoor lecture, then walk around this beautiful meadow to make observations. While discussing pollinators, we'll hone our field identification skills. Bring *Newcomb's Wildflower Guide* and a hand lens if you have them.

Habitat: meadow, grassland

Known for: rich pollinator habitat

Difficulty: easy

Sunday, September 17, 2017, 10:30 a.m.-12 p.m.

Leverett, MA

Program Code: FDT8040

Instructor: George LoCascio, naturalist

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

Limit: 20

Certificate: Field: FB/Adv.FB

BOTANY IN THE SALT MARSH: BARNSTABLE GREAT MARSH WILDLIFE SANCTUARY

Barnstable Great Marsh is an integral part of the ecologically significant 3,800-acre Sandy Neck salt marsh and barrier beach system. Join Michael Piantedosi to explore this critical coastal ecosystem and learn about its resident flora.

Habitat: salt marsh, coastal

Known for: 3,800-acre salt marsh ecosystem and Sandy Neck

Difficulty: easy/moderate

Tuesday, September 19, 2017, 10 a.m.-1 p.m.

Barnstable, MA

Program Code: FDT8041

Instructor: Michael Piantedosi, NEPCoP/seed bank coordinator

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

Limit: 15

Certificate: Field: FB/Adv.FB



Red admiral butterfly on common buttonbush (*Cephalanthus occidentalis*)



WILD EDIBLES WALK

Join Russ Cohen, expert forager and author of *Wild Plants I Have Known...and Eaten*, for a walk around Drumlin Farm to learn about the tastiest wild plant species in our midst. We will discuss identification tips, edibility, seasonality, and preparation methods, along with general guidelines for safe and environmentally responsible foraging. We'll end the evening sipping and snacking on tasty foraged treats.

Habitat: disturbed habitat, field, and woodland edge

Known for: elderberry, sumac, pokeweed, and black raspberry

Difficulty: easy

Tuesday, September 19, 2017, 4:30-7:30 p.m.

Drumlin Farm Wildlife Sanctuary, Lincoln, MA

Program Code: FDT1108

Instructor: Russ Cohen, author and naturalist

Fee: \$32 (Member) / \$38 (Nonmember)

Limit: 20 **Certificate:** Field: FB/Adv.FB

Cosponsor: Mass Audubon

POCKET PEATLANDS

Visit several pocket peatlands in the Groton Town Forest. Many characteristic peatland species are present, but this trip will focus on the natural communities and their differences as well as variations among and within the peatlands, which include a bog, an acidic graminoid fen, and a shrub fen. Be prepared to get wet or wear hip boots or chest waders.

Habitat: bogs and acidic fens

Known for: pocket peatlands

Difficulty: moderate/difficult

Sunday, October 8, 2017, 1-4 p.m.

Groton, MA

Program Code: FDT1066

Instructor: Patricia Swain Rice, natural community ecologist

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

Limit: 10 **Certificate:** Field: FB/Adv.FB

Cosponsor: Massachusetts Association of Conservation Commissions

BARE TREES AND NAKED SHRUBS

No leaves? No problem! We will use a combination of branching patterns, bud and bark characteristics, habitat, persistent fruits, galls, and marcescent leaves to help identify woody plants in winter. We'll head out onto conservation lands, where we'll take a close look at 18-20 common trees and shrubs. The program will conclude indoors with a hot beverage. Bring lunch and a hand lens if you have one.

Habitat: wetlands, oak hickory forest, and rocky outcrop

Known for: a good variety of woody plants

Difficulty: easy/moderate

Saturday, November 4, 2017, 10 a.m.-2 p.m.

Whipple Hill, Lexington, MA, and Wright-Locke Farm, Winchester, MA

Program Code: FDT1101

Instructor: Roland "Boot" Boutwell, naturalist

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

Limit: 16 **Certificate:** Field: FB/Adv.FB

Cosponsor: Massachusetts Association of Conservation Commissions

WEEDS AND WILDFLOWERS IN WINTER

This field class will focus on the identification of herbaceous plants well into their winter dormancy. By examining wispy old fruiting heads, withered leaves, and brittle stems, we'll become familiar with the winter appearance of mints, mustards, asters, goldenrods, ferns, grasses, and other native and introduced species well past their summer glory.

Habitat: meadows and woodlands

Known for: great habitat and floristic diversity

Difficulty: easy

Sunday, December 3, 2017, 11 a.m.-2 p.m.

Barber Reservation, Sherborn, MA

Program Code: FDT8042

Instructor: Ted Elliman, botanist and author of *Wildflowers of New England*

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

Limit: 16 **Certificate:** Field: FB/Adv.FB

urban gardening series

The urban gardening series is a set of classes designed to help city dwellers grow healthy, sustainable, and beautiful gardens. Led by New England Wild Flower Society in partnership with the Cambridge Conservation Commission, these free classes take place at the Cambridge Public Library, 449 Broadway, Cambridge, MA.

GARDEN AND LANDSCAPE MAINTENANCE

We should all strive to be lazier gardeners. Sometimes our maintenance practices are counterproductive. Learn a better approach to garden and landscape maintenance that will help you garden more sustainably and give you more time to stop and smell the flowers!

Saturday, August 12, 2017, 10:30 a.m.-12 p.m.

Program Code: LEC6569

Instructor: Mark Richardson, botanic garden director, New England Wild Flower Society

BUILDING A DROUGHT-TOLERANT GARDEN

There are drought-tolerant plants and then there are the drought-tolerant superstars. Join Dan Jaffe to explore landscaping techniques for drought-proofing your garden. Learn which plants managed best during the worst drought on record—from bee balms for dry, sandy sites to the toughest black-eyed Susans.

Tuesday, September 5, 2017, 6-7:30 p.m.

Program Code: LEC6566

Instructor: Dan Jaffe, propagator and stock bed grower, New England Wild Flower Society



Black-eyed Susan and bee balm. (*Rudbeckia* and *Monarda*)

urban gardening series

PRUNING FUNDAMENTALS

Proper pruning of trees and shrubs improves their health and structure while enhancing their appearance in the landscape. Learn basic pruning principles, including how to make proper cuts, when to prune different species, and how to select and maintain tools.

Saturday, October 21, 2017, 10:30 a.m.-11:30 a.m.

Program Code: LEC6556

Instructor: Anna Fialkoff, horticulturist, New England Wild Flower Society



Virginia strawberry (*Fragaria virginica*)



Constructing rain garden at Garden in the Woods

PLANTS FOR THE WINTER GARDEN

It's relatively easy to design a garden for the peak of the spring bloom, but more challenging to create one that looks beautiful in the dead of winter. Learn about the many native plants that offer winter interest and how they can help your garden shine in the darkest season.

Saturday, December 16, 2017, 10:30 a.m.-12 p.m.

Program Code: LEC6562

Instructor: Mark Richardson, botanic garden director, New England Wild Flower Society

NATIVE LAWN ALTERNATIVES

"Lawns are a soul-crushing timesuck..." reads the headline of a recent article on washingtonpost.com. According to NASA, more surface area in the U.S. is covered by lawn than by any other single irrigated crop. Lawns are resource-heavy, requiring irrigation, fertilizer, and pesticides to thrive in our climate. Learn some of the best, environmentally friendly lawn alternatives for urban gardens.

Saturday, January 20, 2018, 1-2:30 p.m.

Program Code: LEC8011

Instructor: Mark Richardson, botanic garden director, New England Wild Flower Society

RAIN GARDENS

By cleaning, cooling, and slowing runoff before it pollutes water bodies, rain gardens can play a significant role in urban and suburban areas. Learn how rain gardens work, how you can create low-tech and effective rain gardens, and which durable plants can fill them.

Saturday, February 17, 2018, 1-2:30

Program Code: LEC8012

Instructor: Anna Fialkoff, horticulturist, New England Wild Flower Society



Little bluet (*Houstonia caerulea*)

WHAT TO PROPAGATE AND HOW TO DO IT

Many propagation classes focus on the details of seed sowing, cuttings, and divisions. While these topics are indeed essential, it's equally important to consider which plants to propagate. Sow hobblebush into a seed flat and you'll be lucky to see any seedlings in spring. Sow bluets, on the other hand, and you will have them within the month. Dan Jaffe will explain what to propagate as well as how to do it.

Wednesday, August 2, 1-3 p.m.; Thursday, August 3, 2017, 1-3 p.m.

Garden in the Woods, Framingham, MA

Program Code: HOR1212

Instructor: Dan Jaffe, propagator and stock bed grower, New England Wild Flower Society

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

Limit: 15

Certificate: Elective: HD/Adv.HD

NATIVE PLANTS FOR PROFESSIONALS

Join Dan Jaffe to learn about the best native plant materials available today for use in the design and landscape trades. Covering everything from plants for tough spots to specialty plants for specific habitats, this class will add a host of less-familiar native species to your plant palette.

Wednesdays, August 9, 16, 2017, 10 a.m.-3 p.m.

Garden in the Woods, Framingham, MA

Program Code: HOR1200

Instructor: Dan Jaffe, propagator and stock bed grower, New England Wild Flower Society

Fee: \$162 (Member)/\$190 (Nonmember)

Limit: 20

Certificate: Core: Adv.HD; Elective: HD

Cosponsor: Ecological Landscape Alliance

SEED SAVING

Seed saving brings tremendous benefits to the willing gardener. Learn how seeds develop, stay dormant, and germinate. This hands-on workshop will cover harvesting, cleaning, and storing a wide spectrum of native seeds. Spend time in the field observing and collecting seeds, then practice cleaning. Bring home the seeds you collect. Bring a lunch and dress appropriately for the field.

Saturday, August 26, 2017, 10 a.m.-3 p.m.

Nasami Farm Nursery, Whately, MA

Program Code: HOR3205

Instructor: Kate Stafford, horticulturist

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

Limit: 15

Certificate: Elective: HD/Adv.HD

NATIVE WOODY PLANT MATERIALS

Explore the huge variety of native trees, shrubs, and woody vines. Learn which species grow well in shade, which support local wildlife, and how to stagger plantings for continuous bloom, fruit production, and fall color. We'll discuss growth characteristics, cultural requirements, and best horticultural uses. The course will include lectures and walks in the Garden as well as a field trip to The Arnold Arboretum. Bring a bag lunch.

Wednesday, August 30, 10 a.m.-2:30 p.m.;

Wednesday, September 6, 11 a.m.-1 p.m.;

Wednesday, September 13, 2017, 10 a.m.-2:30 p.m.

Garden in the Woods, Framingham, MA, and The Arnold Arboretum, Boston, MA

Program Code: HOR1100

Instructor: Dan Jaffe, propagator and stock bed grower, New England Wild Flower Society

Fee: \$170 (Member)/\$200 (Nonmember)

Limit: 16

Certificate: Core: HD; Elective: Adv.HD

Cosponsor: Ecological Landscape Alliance



Twinleaf capsule (*Jeffersonia diphylla*)

HORTICULTURAL TECHNIQUES

Good horticultural practices form the backbone of any successful garden, and understanding how to apply these practices is the first step toward becoming a horticulturist. Learn how to select the right plant for the right place and how to plant and care for native plants. Participants will study the proper techniques for transplanting, preparing soil, mulching, watering, and pruning as well as maintaining, winterizing, and preparing the garden for spring. Bring a bag lunch.

Wednesdays, October 4, 11, 18, 2017, 10 a.m.-3 p.m.

Garden in the Woods, Framingham, MA

Program Code: HOR3600

Instructor: horticulture staff, New England Wild Flower Society

Fee: \$225 (Member)/\$270 (Nonmember)

Limit: 16

Certificate: Core: HD; Elective: Adv.HD

PUTTING YOUR GARDEN TO BED

Wondering when to cut back your perennials and how long into autumn you can plant or prune perennials, trees, and shrubs? Looking for the most wildlife-friendly approach to winterizing? In the classroom and out in the garden, Anna Fialkoff will demonstrate the steps to getting your garden ready for winter dormancy and guide you through a timeline for what to do when.

Friday, October 13, 2017, 10 a.m.-12 p.m.

Garden in the Woods, Framingham, MA

Program Code: HOR6649

Instructor: Anna Fialkoff, horticulturist, New England Wild Flower Society

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

Limit: 16

Certificate: Elective: HD/Adv.HD

DEVELOPING A COMPREHENSIVE INTEGRATED PEST MANAGEMENT PLAN

An Integrated Pest Management (IPM) plan is a tool for controlling pests in a timely, safe, and efficient manner. Vital to producing and maintaining healthy plants, these plans include several components: sanitation and prevention, conservation, and augmentation methods using beneficial organisms. We will explore, discuss, and begin work on individual IPM plans.

Saturday, October 21, 2017, 10 a.m.-12 p.m.

Nasami Farm Nursery, Whately, MA

Program Code: HOR8015

Instructor: Alexis Doshas, propagator and facilities coordinator, New England Wild Flower Society

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

Limit: 15

Certificate: Elective: HD/Adv.HD

WARREN MANNING: A FORCE OF NATURE

Join Jane Roy Brown for a presentation about Warren Manning (1860–1938), an innovative landscape architect and planner whose work is the subject of a new book, *Warren Manning: Landscape Architect and Environmental Planner* that Brown co-edited. Manning had a national practice based in north suburban Boston, and for a time employed Will Curtis, who designed Garden in the Woods. The book will be available for purchase after the lecture.

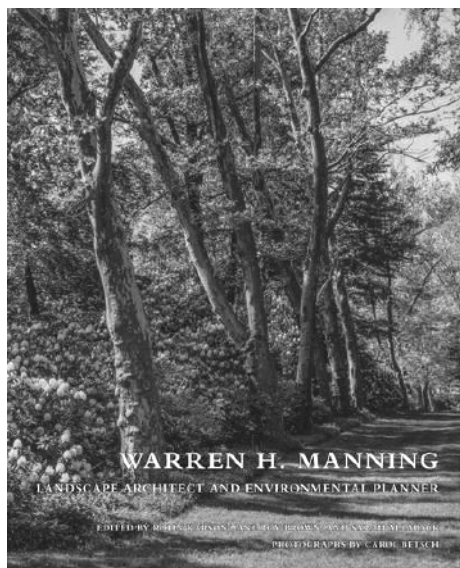
Sunday, October 22, 2017, 2-3:30 p.m.

Garden in the Woods, Framingham, MA

Program Code: LEC8010

Instructor: Jane Roy Brown, writer-editor, New England Wild Flower Society, and co-editor of *Warren Manning: Landscape Architect and Environmental Planner*

Fee: \$8 (Member)/\$10 (Nonmember)



DESIGNING A GARDEN FOR ALL SEASONS: AUTUMN EDITION

How do you create an all-season garden that both captivates people and provides for wildlife year-round? Anna Fialkoff will discuss designs and plant palettes for your landscape that focus on structure and seasonal themes, with special attention to fall gardens. Afterward, you will walk through the Garden to see how the Society's horticulture team tackles the autumn season.

Tuesday, October 24, 2017, 10 a.m.-12 p.m.

Garden in the Woods, Framingham, MA

Program Code: PDW4401

Instructor: Anna Fialkoff, horticulturist, New England Wild Flower Society

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

Limit: 16

Certificate: PDW: Adv.HD; Elective: HD

Cosponsor: Ecological Landscape Alliance

GROWING PLANTS FOR POLLINATORS FROM SEED

The fates of native plants and pollinators are intricately interwoven; both are essential to our environment. In this class, Kate Stafford will teach you how to grow the best native plants for pollinators from seed—an affordable solution for creating pollinator habitat in your yard.

Saturday, October 28, 2017, 6-8 p.m.

Nasami Farm Nursery, Whately, MA

Program Code: HOR8012

Instructor: Kate Stafford, horticulturist

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

Limit: 15

Certificate: Elective: HD/Adv.HD

COOKING WITH NATIVE PLANTS

Many people have heard about the amazing flavors our native flora offers but can't find recipes for cooking these plants. In this course, Dan Jaffe will discuss his favorite wild foods and provide step-by-step directions for moving from harvest to table.

Saturday, November 11, 2017, 1-3 p.m.

Garden in the Woods, Framingham, MA

Program Code: HOR8007

Instructor: Dan Jaffe, propagator and stock bed grower, New England Wild Flower Society

Fee: \$28 (Member)/\$34 (Nonmember)

Limit: 15

Certificate: Elective: HD/Adv.HD



Nodding onion (*Allium cernuum*)

NATIVE ARRANGEMENTS

Learn how to use plant materials gathered outdoors to create beautiful arrangements for your home or a centerpiece for your Thanksgiving table. First, we will head outdoors to learn best practices for collecting plant materials, then we'll return to the classroom to create unique display pieces. Bring pruners and a container or vase for your arrangement.

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

Limit: 15

Certificate: Elective: all certificates

Choose one of two sessions:

Saturday, November 18, 2017, 1-3 p.m.

Garden in the Woods, Framingham, MA

Program Code: HOR2903

Instructor: Anna Fialkoff, horticulturist, New England Wild Flower Society

Saturday, November 18, 2017, 1-3 p.m.

Nasami Farm Nursery, Whately, MA

Program Code: HOR2904

Instructor: Kate Stafford, horticulturist

NATIVE WREATHS

Join Kate Stafford in using native plant material gathered from Nasami Farm to create a small wreath for winter decoration. We'll discuss plant materials available in winter and best practices for collecting them. Next, we'll learn how to make wreath forms and create something uniquely beautiful. Bring pruners, and ribbon for a bow if desired.

Sunday, December 3, 2017, 1-3 p.m.

Nasami Farm Nursery, Whately, MA

Program Code: HOR8011

Instructor: Kate Stafford, horticulturist

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

Limit: 15



Turk's-cap lily (*Lilium superbum*)

MEADOWS 1-2-3

No one can grow an instant meadow, but this one-day seminar will quickly increase your understanding of what it takes to create and maintain one. Topics include: meadows defined, site selection, site preparation, the roles of grasses and flowering species, plant species selection, seeds versus plugs, seasonal considerations, weeds, and what to expect from your meadow in years one, two, and three. Bring a bag lunch.

Saturday, December 9, 2017, 10 a.m.-4 p.m.

Garden in the Woods, Framingham, MA

Program Code: HOR8001

Instructor: Kathy Connolly, landscape designer, Speaking of Landscapes, LLC

Fee: \$73 (Member)/\$88 (Nonmember)

Limit: 50

Certificate: Elective: HD/Adv.HD

Cosponsor: Ecological Landscape Alliance

RESIDENTIAL LANDSCAPE DESIGN

This multisession course, appropriate for beginners, tackles the different aspects of the landscape design process. Workshop sessions will focus on design methods using site analysis techniques and schematic design tools. You will consult with the instructor and work on a project of your own choosing. Discussions about plants and habitats will be interspersed with lectures on design principles, including criteria for making plant choices and determining placement in the landscape.

Garden in the Woods, Framingham, MA

Fee: \$215 (Member)/\$254 (Nonmember)

Limit: 12

Certificate: Core: HD; Elective: Adv.HD

Choose one of two sessions:

Wednesdays, January 10, 17, 24, 31, February 7, 2018, 6-9 p.m.

Program Code: HOR3999

Instructor: Cheryl Salatino, landscape designer, Dancing Shadows Garden Design, and Massachusetts Certified Horticulturist

Tuesdays, February 6, 13, 20, 27; March 6, 13, 20, 2018, 6-8 p.m.

Program Code: HOR4002

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

LANDSCAPE FOR LIFE

This intensive introductory course will provide you with the knowledge, skills, and understanding to create a great-looking garden that is healthier for you, your family, and the environment. This class is based on the principles of the Sustainable Sites Initiative, the nation's first rating system for sustainable landscapes. The comprehensive curriculum covers a range of topics, including soils, water, plants, and landscape materials.

Thursdays, January 11, 18, 25, February 1, 2018, 1-4 p.m.

The Arnold Arboretum, Boston, MA

Program Code: HOR3720

Instructor: Mark Richardson, botanic garden director, New England Wild Flower Society

Fee: \$185 (Member)/\$218 (Nonmember)

Limit: 16

Certificate: Core: Adv.HD; Elective: HD

Cosponsor: The Arnold Arboretum of Harvard University



Umbrella leaf (*Diphyletia cymosa*)

NOTHING LEAVES THE SITE

It's a good rule for sustainable gardening: Let nothing leave the site. Join the Society's horticulture staff to learn how your existing landscape materials, from downed wood to running water and plant debris, can provide free food, water, and soil.

Saturday, January 27, 2018, 1-4 p.m.

Garden in the Woods, Framingham, MA

Program Code: HOR8008

Instructor: horticulture staff, New England Wild Flower Society

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

Certificate: Elective: HD/Adv.HD

PROPAGATING NATIVE PLANTS FROM SEED

Learn to propagate native plants from seed in this two-part, hands-on workshop that focuses on practical methods for small-scale propagation. This workshop is appropriate for beginners and propagators with some experience. Take one or both classes.

Nasami Farm Nursery, Whately, MA

Instructor: Kate Stafford, horticulturist

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

Limit: 15

Certificate: Elective: HD/Adv.HD

Part 1: Seed Dormancy and Sowing Techniques

Explore seed biology. Practice sowing seeds and take your work home.

Saturday, January 27, 2018, 5-8 p.m.

Program Code: HOR1807

Part 2: Seedling Germination and Establishment

Learn the science behind successful seed starting. Practice transplanting and take your work home.

Coming spring 2018

Program Code: HOR1808



Foamflower (*Tiarella cordifolia*)

MAKE LIFE EASIER WITH LIVING MULCH

How many people were drawn to gardening by a love of mulch? Not many, and yet our landscapes are full of it. Thick layers of red mulch and volcano mulching under trees are commonplace—but there is a better way. Canada mayflower, foamflower, and beech fern are just a few alternatives that can take the place of traditional wood mulch in the garden.

Saturday, February 3, 2018, 1-3 p.m.

Garden in the Woods, Framingham, MA

Program Code: HOR8009

Instructor: Dan Jaffe, propagator and stock bed grower, New England Wild Flower Society

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

Limit: 75

Certificate: Elective: HD/Adv.HD



DESIGNING GARDENS FOR SMALL SPACES

Small gardens present the designer with the challenge of how to realize big ideas in tight quarters. Yet small sites don't have to restrict garden interest and diversity. This hands-on design workshop tackles the garden as a composition by exploring enclosed space, light, plant characteristics, and personal expression.

Tuesdays, February 6, 13, 2018, 8:30 a.m.-12 p.m.

Garden in the Woods, Framingham, MA

Program Code: PDW4026

Instructor: Cheryl Salatino, landscape designer, Dancing Shadows Garden Design, and Massachusetts Certified Horticulturist

Fee: \$120 (Member)/\$144 (Nonmember)

Limit: 12

Certificate: PDW: Adv.HD; Elective: HD

Cosponsor: Ecological Landscape Alliance

UNDERSTANDING AND MANAGING SOILS

Whether you are an experienced gardener or a novice, this class will help you develop a better understanding of the importance of soil to your garden. Learn how to evaluate and improve your garden's soil, how to choose the right plants for your soil conditions, and how to maintain soil health and fertility through organic practices. Bring a bag lunch.

Wednesdays, February 7, 14, 21, 2018, 10 a.m.-1:30 p.m.

Garden in the Woods, Framingham, MA

Program Code: HOR3904

Instructor: Mark Richardson, botanic garden director, New England Wild Flower Society

Fee: \$138 (Member)/\$163 (Nonmember)

Limit: 16

Certificate: Core: HD/Adv.HD; Elective: all certificates

NATIVE PLANTS FOR URBAN DESIGN

Join Amy Nyman to learn about native plants for urban design. She will identify native plants that can be used in urban landscapes and explain the specific design characteristics those plants offer. She will also include an overview of urban challenges and strategies for supporting plant resiliency.

Saturday, February 24, 2018, 10-11 a.m.

Garden in the Woods, Framingham, MA

Program Code: HOR8013

Instructor: Amy Nyman, landscape designer and owner, Ruby Leaf Design

Fee: \$15 (Member)/\$17 (Nonmember)

Limit: 16

Certificate: Elective: HD/Adv.HD

Cosponsor: Ecological Landscape Alliance

NATIVE PLANTS FOR LANDSCAPE DESIGN

Native plants offer as much design value as the traditional exotic plants used in most American landscapes. This class will identify native plants formerly unused in the designed landscape and discuss the characteristics they offer in specific site conditions.

Saturday, March 10, 2018, 10-11 a.m.

Garden in the Woods, Framingham, MA

Program Code: HOR8014

Instructor: Amy Nyman, landscape designer and owner, Ruby Leaf Design

Fee: \$15 (Member)/\$17 (Nonmember)

Limit: 16

Certificate: Elective: HD/Adv.HD

Cosponsor: Ecological Landscape Alliance

WEEDS

What is a weed? Why do weeds appear? How should we remove them? Are some weeds beneficial? The answers to these questions are not always straightforward. For instance, violets are one of the most important plants for fritillary butterflies, and yet they are labelled weeds. Goldenrods, which provide more wildlife benefit than any other herbaceous plant in the flora, are also considered weeds. Join Dan Jaffe for a fascinating discussion of weeds and their place in the landscape.

Thursday, March 22, 2018, 9 a.m.-12 p.m.

Garden in the Woods, Framingham, MA

Program Code: HOR8010

Instructor: Dan Jaffe, propagator and stock bed grower, New England Wild Flower Society

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

Certificate: Elective: HD/Adv.HD



Seaside goldenrod (*Solidago sempervirens*)



IN THE GARDEN

Tour exceptional gardens, talk with homeowners, and learn about the plants they use and the techniques they employ to create functional and beautiful spaces in harmony with nature.

HAYWOOD BROOK FARM GARDEN

Join Alan Smith for a tour of his gorgeous 16-acre property in Wayland, MA. This well-established site features walled flower gardens, native wildflower meadows, pasture, woodlands, wetland, a pond, a stream, a vegetable garden with greenhouse, and magnificent specimen trees.

Thursday, August 10, 2017, 10:30 a.m.-12 p.m.
Wayland, MA

Program Code: HDT8015

Instructor: Alan Smith, gardener extraordinaire and trustee, New England Wild Flower Society

Fee: \$18 (Member)/\$21 (Nonmember)

Limit: 18

Certificate: Field: HD/Adv.HD

MEADOWS AND FIELDS OF SOUTHEASTERN CONNECTICUT

Visit several meadows during August, when many native meadow plants are in bloom. Sites include Connecticut College Arboretum, Harkness State Park, and several private landscapes. Tour leader Kathy Connolly will provide an overview of the meadow at each stop. Provide your own transportation or car-pool and bring bag lunch. A list of locations, including directions, will be sent to participants about two weeks before the event.

Saturday, August 19, 2017, 10 a.m.-4 p.m.

New London and various field sites in southeastern Connecticut

Program Code: HDT8016

Instructor: Kathy Connolly, landscape designer, Speaking of Landscapes, LLC

Fee: \$35 (Member)/\$42 (Nonmember)

Limit: 36

Certificate: Field: HD/Adv.HD

Cosponsor: Connecticut College Arboretum



New England Aster (*Symphoricarpos novae-angliae*)



SEASONAL INSPIRATION FOR THE FALL GARDEN

Sometimes the best way to think about your own garden is to visit someone else's for inspiration. Enjoy a walk around Garden in the Woods with Botanic Garden Director Mark Richardson to learn about some of his favorite plants for the fall garden.

Wednesday, September 20, 2017, 5:30-7 p.m.

Garden in the Woods, Framingham, MA

Program Code: HDT8017

Instructor: Mark Richardson, botanic garden director, New England Wild Flower Society

Fee: \$18 (Member)/\$21 (Nonmember)

Limit: 16

Certificate: Field: HD/Adv.HD

Cosponsor: Ecological Landscape Alliance

SEASONAL INSPIRATION FOR THE WINTER GARDEN

Sometimes the best way to think about your own garden is to visit someone else's for inspiration. Enjoy a walk around Garden in the Woods with Botanic Garden Director Mark Richardson and learn about some of his favorite plants for the winter garden.

Saturday, December 2, 2017, 1-2:30 p.m.

Garden in the Woods, Framingham, MA

Program Code: HDT8018

Instructor: Mark Richardson, botanic garden director, New England Wild Flower Society

Fee: \$18 (Member)/\$21 (Nonmember)

Limit: 16

Certificate: Field: HD/Adv.HD

Cosponsor: Ecological Landscape Alliance

children + families

All programs are for children with adult companions.

STORY TIME AND MUSICAL PLAY AT GARDEN IN THE WOODS

Children will listen to a nature-themed story, sing songs related to the topic of the day, and make nature-inspired crafts. Stories are geared for children ages three to six. Afterward, children will be invited to explore the local flora and fauna in the Garden, play in the Family Activity Area, or pick up a Scavenger Hunt card and take a walk through the woods.

Saturdays, August 5, 19, September 9, 23, 2017, 10:30-11:30 a.m.

Garden in the Woods, Framingham, MA

Program Code: FAM7530

Instructor: Elaine Kessler, professional storyteller and children's educator

Fee: Free of charge with Garden admission

become a member

For immediate discounts on programs, join or renew when you register.

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

Membership benefits include:

- 20% discount on educational programs throughout New England
- Annual subscription to Society publications
- Monthly member e-newsletter
- Discounts at a wide range of regional and mail-order nurseries through our Nursery Partner Program and our Garden Shops
- Access to members-only on-demand webinars
- Invitations to special, members-only events (*Individual with Garden Access level and up*).

Membership levels

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

For a full description of member benefits, please visit www.newenglandwild.org/membership or call 508-877-7630 x3104.

registration policies

Advance registration is required for all fee-based programs and is accepted on a first-come, first-served basis upon full payment. Before your class, you will receive program 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 program is filled, you will be put on a waiting list and your credit card will not be charged or your check will be returned. If space in the program becomes available, you will be contacted according to your position on the waiting list.

EQUAL ACCESS

If you need assistance or special accommodations, call 508-877-7630, ext. 3303, at the time you register or as soon as possible thereafter.

SOCIETY CANCELLATIONS, CHANGES, AND INCLEMENT WEATHER

The Society reserves the right to cancel programs, change times or locations, and substitute instructors. If a program is cancelled by the Society, you will receive a full refund. In the event of any program change, you will be notified as soon as possible. Programs run rain or shine. However, in the event of extremely inclement weather, the Public Programs Department or instructor will make every effort to inform you by telephone or email of any change in plans.

No refunds or transfers can be given for withdrawals within a week of the program start date, for programs already in progress, or for class sessions you have not attended.

how to register

REGISTER ONLINE

Visit www.newenglandwild.org/programs.
We accept Visa or MasterCard.

REGISTER BY PHONE

Call 508-877-7630, ext. 3303.
We accept Visa or MasterCard.

REGISTER BY MAIL

Complete the registration form below and mail it with your payment to: Public Programs, New England Wild Flower Society, 180 Hemenway Road, Framingham, MA 01701. Use a separate copy of the form for each registrant. Make checks payable to New England Wild Flower Society. Please do not mail cash.

Name of person filling out form:

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

Address:

City, State, ZIP:

Email:

Phone: Day Evening

Program code	Program name	Start date	Fee

Yes, I'm a member of New England Wild Flower Society member #

I am a current member of (cosponsor organization)

I want to join the Society. Please indicate membership-level fee here

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

I would like to make a gift to the Annual Fund

PAYMENT

Total: \$

Check enclosed (payable to New England Wild Flower Society)

I have read and accept the Cancellation and Refund Policy Yes No

JOIN A SOCIETY-SPONSORED TRIP TO

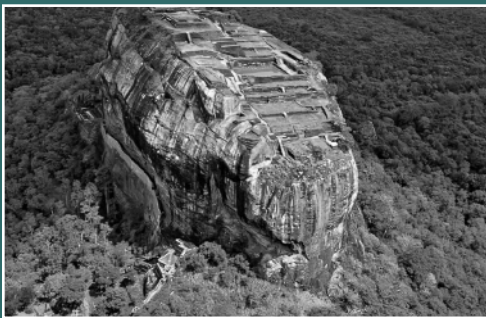
Sri Lanka

February 9-22, 2018

Explore the jewel of the
Indian Ocean during this botanical
and cultural adventure.

Details at

www.newenglandwild.org/learn/srilanka



NEW ENGLAND WILD FLOWER SOCIETY

HEADQUARTERS & GARDEN IN THE WOODS

180 Hemenway Road

Framingham, Massachusetts 01701-2699

ADDRESS SERVICE REQUESTED