

FALL/WINTER 2016

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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Volume 9, Number 2, Fall/Winter 2016

Learn + Grow is published twice a year by New England Wild Flower Society. Members receive discounts on all programs. Annual membership dues start at \$40 for individuals. See page 33 for information.

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Printed on recycled paper.

This publication was made possible through the generosity of Jackie and Tom Stone.

On the Cover

American witch-hazel (*Hamamelis virginiana*)
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

Join Jessica Pederson, Director of Public Programs for New England Wild Flower Society, for this free webinar to learn about the curriculum and structure of the Society's certificate programs in Native Plant Studies. Preregistration is required.

Wednesday, September 28, 3:30-5 p.m.

Program Code: CER8000

Instructor: Jessica Pederson, Director of Public Programs, New England Wild Flower Society

Fee: Free

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 34 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.

Deconstructing the American Landscape

2016 Smaller American Lawns Today Conference

Gardening with native plants is becoming the norm rather than the exception. Professional landscapers, gardeners, and designers are choosing to use native plants for many reasons—not just because they are beautiful and hardy, but because they provide essential food and shelter for wildlife and help to maintain a unique sense of place. Join us for this day-long conference to discuss the demise of the American lawn, the role of native plants in the built landscape, the definition of “native,” and the future of native plants in our built landscapes.

Saturday, November 19, 8:30 a.m.-4:30 p.m.

New London, CT

Program Code: SYM1003

Fee: \$65 (Member)/\$75 (Nonmember) before Nov 1; \$80 (Member)/\$90 (Nonmember) after Nov 1

Certificate: Elective: HD/Adv.HD

Cosponsor: Connecticut College Arboretum

CONFERENCE HIGHLIGHTS

Keynote: *The Future of Native Plants in the Built Landscape*, Larry Weaner, Principal, Larry Weaner Landscape Associates

Awards: New England Wild Flower Society will present the Regional Impact Award to New Directions in the American Landscape.

Presentations:

The Evolving American Lawn

Judy Preston, Connecticut Outreach Coordinator, Long Island Sound Study

Low-maintenance Plants for the Deconstructed Landscape

Dan Jaffe, Horticulturist, New England Wild Flower Society

Ecological Functions of Native Plants

Claudia West, Author and Ecological Sales Manager, North Creek Nurseries

Roundtable Discussion: *Defining Native*

moderated by Mark Richardson, Director of Horticulture, New England Wild Flower Society

online learning

ONLINE COURSES

Enjoy the Society's rich educational programming wherever you are. Register now for one of our three online courses in native plant botany, horticulture, and design.

PLANTS 101: INTRODUCTION TO THE GREEN WORLD

Explore New England's plant life in this online and field course. You will learn what plants are, how they function, and why they are essential to all life on earth. The course, which also introduces many of the region's native and non-native plants, includes five self-paced online modules offered over the course of five weeks and facilitates interactions with the instructor and other students. You can elect to join an optional field trip in your state.

Monday, September 12 through Friday, October 14

Program Code: BOTO101

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

Course: \$100 (Member) / \$125 (Nonmember)

Course + Field Trip: \$128 (Member) / \$160 (Nonmember)

Limit: 50

Certificate: Elective: FB/Adv.FB

PLANTS 102: DEEPER INTO THE GREEN WORLD

Delve deeper into the New England flora in this online and field course. Learn how plants change as they grow; how they interact with other species; and how geology, soils, land-use history, hydrology, and climate shape the plant communities of the region. This course includes five weeks of online instruction and

offers many opportunities to interact with the course instructor and your fellow students. You can elect to join an optional field trip in your state. Plants 101 is a complement to Plants 102, but is not a prerequisite.

Monday, October 17 through Friday, November 18

Program Code: BOTO102

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

Course: \$100 (Member) / \$125 (Nonmember)

Course + Field Trip: \$128 (Member) / \$160 (Nonmember)

Limit: 50

Certificate: Elective: FB/Adv.FB

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.

Course is available from Monday, November 14 through Sunday, April 2

Program Code: HORO100

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

Fee: \$64 (Member) / \$80 (Nonmember)

Certificate: Elective: HD/Adv.HD

online learning

LIVE WEBINARS

Join Society staff in our new live webinar series to learn about plant conservation, gardening, native plants, and more. Watch three live webinars to earn one elective class.

MEADOWS 101

What is a meadow? Is it an unmowed lawn or a perennial bed gone wild? Or something different altogether? This 45-minute webinar will teach you the real definition of the term, examine the roles of grasses and flowers in this habitat, and suggest some steps you can take this fall to start your meadow. We'll also discuss how meadows differ from other "no-mow" and "low-mow" approaches to covering ground.

Wednesday, October 5, 11 a.m.-12 p.m.

Program Code: HORW201

Instructor: Kathy Connolly, Landscape Designer, Speaking of Landscapes, LLC

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

Certificate: Elective: HD/Adv.HD

UPDATES TO THE NEW ENGLAND FLORA

Our understanding of the New England flora is dynamic; plant names change and known distributions are constantly in flux. This webinar will examine some of the changes in taxonomy, plant distribution, and conservation that have occurred since the publication of *Flora Novae Angliae* in 2011. We will discuss a variety of updates, from simple name changes to more complex dismantling of genera.

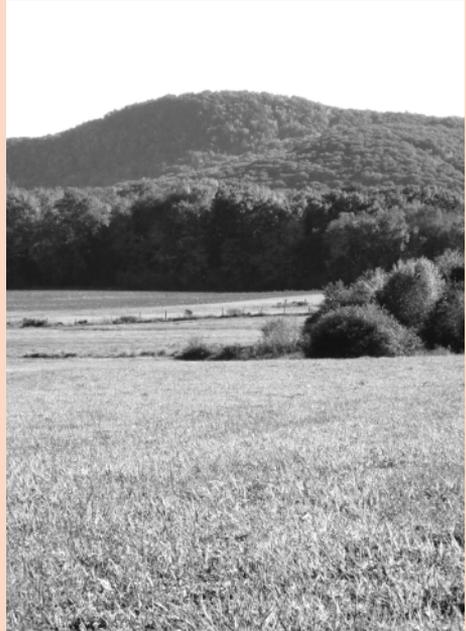
Wednesday, February 15, 2017, 11 a.m.-12 p.m.

Program Code: BOTW106

Instructor: Arthur Haines, Research Botanist, New England Wild Flower Society; author, *Flora Novae Angliae*

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

Certificate: Elective: FB/Adv.FB



THINGS TO CONSIDER WHEN DESIGNING WITH NATIVES

Although most often associated with natural settings like meadows, forests, and pond edges, native plants can work beautifully in traditional landscapes. Learn which native plants are most effective in more formal gardens and what principles of design enhance their aesthetic value.

Wednesday, March 8, 2017, 11 a.m.-12 p.m.

Program Code: HORW210

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

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

Certificate: Elective: HD/Adv.HD

online learning

NATIVES FOR ANY GARDEN WEBINAR SERIES

This nine-part series focuses exclusively on garden plants. Join our horticulture staff for suggestions on the best native plants for any garden condition.

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

Certificate: Elective: HD/Adv.HD

EDIBLES PLANTS

From roots to fruits and stems for tea, our native flora is chock-full of edible species ripe for the picking. You just need to know where to look!

Thursday, October 6, 11 a.m.-12 p.m.

Program Code: HORW202

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

PLANTS FOR WILDLIFE AND POLLINATORS

Natural vegetation offers wildlife, including pollinators, continuous cover and adjacent feeding opportunities. Learn about the plants that create habitat for wildlife, providing adequate food, shelter, and water sources for them.

Thursday, October 20, 11 a.m.-12 p.m.

Program Code: HORW203

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

PLANTS THAT COVER THE GROUND

From keeping out the weeds to providing season-long interest, ground covers are the unsung heroes of the landscape. They play a dominant role on the forest floor and can in the garden too.

Thursday, November 3, 11 a.m.-12 p.m.

Program Code: HORW204

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

PLANTS FOR TOUGH PLACES

Regardless of where you live, there are certain places where the usual plants just won't thrive. From parking lot islands to the forest floor under that stand of hemlock, you name the tough place and we'll give you a list of plants that will grow there.

Tuesday, November 15, 11 a.m.-12 p.m.

Program Code: HORW205

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

LOW-MAINTENANCE PLANTS

After a long day of work, weeding and watering isn't always high on the priority list. Join us to discover a host of stunning, low-maintenance native plants.

Wednesday, December 14, 11 a.m.-12 p.m.

Program Code: HORW206

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

Red chokeberry (*Aronia arbutifolia*)



PLANTS FOR SHADE

Ever return from the nursery with a bunch of new plants only to realize that you bought only sun-lovers? The New England flora has a rich diversity of shade-tolerant species that will brighten any shady area of the garden.

Thursday, January 12, 2017, 11 a.m.-12 p.m.

Program Code: HORW207

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

PLANTS FOR SUN

From bee balm to milkweed, the New England flora includes outstanding plants that thrive in meadows, fields, and other open areas. Join us for a crash course on all things sun-loving.

Thursday, January 26, 2017, 11 a.m.-12 p.m.

Program Code: HORW208

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

PLANTS FOR WET AREAS

From swamps to bogs, streams, and lakes, the wet areas of New England host some of the region's most interesting and beautiful plants. Learn which plants thrive beautifully in wet conditions.

Thursday, February 23, 2017, 11 a.m.-12 p.m.

Program Code: HORW209

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

RAIN GARDEN PLANTS

Rain gardens can reduce groundwater pollution in urban landscapes by cleaning, cooling, and slowing the flow of storm water. Learn how to maximize rain garden function by using the most durable native plants in some of the toughest spots.

Wednesday, March 22, 2017, 11 a.m.-12 p.m.

Program Code: HORW211

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

online learning

PLANT COMMUNITIES OF NEW ENGLAND WEBINAR SERIES

This five-part series will introduce you to some truly special New England habitats. Each Wednesday, Elizabeth Farnsworth, Senior Research Ecologist for New England Wild Flower Society will discuss the ecology and fascinating plant life of a distinctive New England landscape. A 15-minute Q&A period will follow each webinar.

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

Certificate: Elective: FB/Adv.FB

ALPINE HABITATS

When a chill wind blows, you stay warm by putting on a sweater. How do alpine plants cope with their nearly always chilly climate? Learn about the ingenious adaptations of the common and rare plants inhabiting New England's highest peaks.

Wednesday, January 11, 2017, 11-12 p.m.

Program Code: BOTW101

DECIDUOUS FORESTS

These iconic forests, which burst into a festival of colors in the fall, stretch throughout New England. Why do trees lose their leaves, and how does this happen? What are some other species that call these habitats home?

Wednesday, January 18, 2017, 11-12 p.m.

Program Code: BOTW102

RIVERS

Rivers support an enormous variety of plants, both in and out of the water. Learn about the aquatic plants of rivers and the impressive array of species that occupy—and stabilize—their shores.

Wednesday, January 25, 2017, 11-12 p.m.

Program Code: BOTW103

SANDPLAIN BARRENS

Dry, sandy places may seem poor hosts for plants, but in fact they are home to some of our most diverse plant and animal assemblages. Discover the fascinating, dynamic ecology of these habitats.

Wednesday, February 1, 2017, 11-12 p.m.

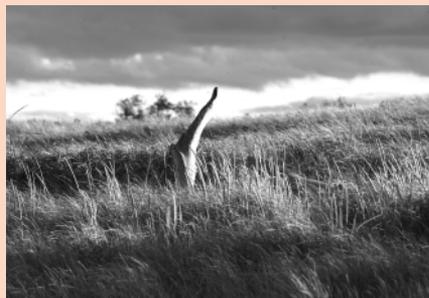
Program Code: BOTW104

DUNES AND MARSH COMMUNITIES

At the interface between land and sea in New England, dune and marsh communities harbor hardy plants uniquely suited to their harsh environment. Learn about their many adaptations for dealing with salt, sea water, and storms.

Wednesday, February 8, 2017, 11-12 p.m.

Program Code: BOTW105



online learning

ON-DEMAND WEBINARS

Members can access our on-demand webinars free of charge. Register for a program to receive the web page and password.

CONSERVING THE RARE PLANTS OF NEW ENGLAND

Bill Brumback will discuss the rare plants of New England and their habitats. Explore these amazing plants, the threats to them, and options for conserving them.

Available on Demand

Program Code: BOTW100

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

Fee: Free (Member Access Only)

SEED BANKING FOR CONSERVATION

In New England, rare plant species have lost, on average, 67 percent of their known range and face multiple threats, from invasive species to habitat conversion and climate change. Seed banking is a critical strategy for conserving at-risk plant species. Michael Piantedosi will explore the sustainable collection and long-term conservation of native New England seeds.

Available on Demand

Program Code: BOTW200

Instructor: Michael R. Piantedosi, NEPCoP/Seed Bank Coordinator, New England Wild Flower Society

Fee: Free (Member Access Only)

TWENTY GREAT NATIVE PLANTS FOR YOUR GARDEN

Join Mark Richardson to learn about 20 of the easiest to grow and most attractive native plants for the New England garden.

Available on Demand

Program Code: HORW400

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

Fee: Free (Member Access Only)

ATTRACTING POLLINATORS TO YOUR GARDEN

There is no need to sacrifice beauty, order, or variety in order to attract pollinators to your garden. In this webinar, Dan Jaffe will identify the beautiful, low-maintenance plants that thrive in any environment and offer food and shelter to our important pollinating friends.

Available on Demand

Program Code: HORW200

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

Fee: Free (Member Access Only)

THE TASTIEST NATIVE EDIBLES

Join Dan Jaffe for an introduction to the all-time-tastiest native edible plants. These low-maintenance perennials play an important ecological role in the garden and will fill your belly with flavors that can't be found in the supermarket.

Available on Demand

Program Code: HORW300

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

Fee: Free (Member Access Only)

Common buttonbush (*Cephalanthus occidentalis*)



NATIVE NEW ENGLAND SHRUBS

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

Thursdays, September 8, 15, 22, 6:30-8:45 p.m.;
Saturdays, September 10, 17, 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

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, offering both lecture and laboratory activities, introduces botany to new students or serves as a refresher course. Required text: *Botany for Gardeners* by Brian Capon.

Tuesdays, September 20, 27, October 4, 18, 25,
November 1, 8, 15, 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

Sponsor: The Arnold Arboretum of Harvard University

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 New England forest from the Ice Age through European settlement. Learn to identify native New England 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, September 27, October 4, 18, 25,
6:30-8:30 p.m.; **Saturday, October 15, 12-4**
p.m.; **Saturday, October 22, 9 a.m.-1 p.m.**

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

Program Code: BOT3200

Instructor: Karen Sebastian, Principal, KarenSebastian LLC, Landscape Architecture

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

Limit: 16

Certificate: Core: FB; Elective: all certificates

PLANT FORM AND FUNCTION

This introduction to botany covers the basics of plant anatomy and physiology as well as the fundamentals of the plant kingdom. Classroom materials include slides, live materials, and microscopes, which students will use to examine roots, stems, leaves, and their component tissues. The class will study flowers, fruits, and seeds and discuss pollination, fertilization, dispersal, and germination, with an emphasis on the relationship between plant form and function.

Thursdays, September 29, October 6, 13, 20, 27, November 3, 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: 15

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

BOGS AND FENS: A GUIDE TO PEATLAND PLANTS OF THE NORTHEASTERN UNITED STATES AND ADJACENT CANADA

Bogs and fens are underlain by deep, water-saturated peat. In New England, at least 25 of these peatlands are accessible by boardwalk, enabling visitors to see the carnivorous plants, orchids, and uncommon bird species inhabiting these areas without damaging the fragile ecosystems. Ronald Davis, the author of a new book on bogs and fens, will explain the special features of these fascinating places in a talk illustrated with outstanding photographs.

Friday, October 14, 1-2:30 p.m.

Garden in the Woods, Framingham, MA

Program Code: LEC8008

Instructor: Ronald B. Davis, Ph.D., emeritus professor, School of Biology and Ecology, and Climate Change Institute, University of Maine

Fee: \$9 (Member) /\$12 (Nonmember)

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 some of New England's most common invasive species through images, specimens, and a short local field visit. Bring a bag lunch and a hand lens; wear waterproof shoes and dress appropriately for the weather.

Friday, October 14, 6:30-8:30 p.m.; Saturday, October 15, 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



Bishop's weed (*Aegopodium podagraria*)

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 recommend starting with Session 1; Sessions 2–5 may be taken in any order. Recommended text: *Plant Systematics: A Phylogenetic Approach*.

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



American globe-flower (*Trollius laxus*)

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, November 6, 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, February 26, 2017, 1-4 p.m.

Program Code: BOT2230

SESSION 3

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

Sunday, March 26, 2017, 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).

Sunday, June 11, 2017, 1-4 p.m.

Program Code: BOT2240

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



Northern lady fern (*Athyrium angustum*)

HISTORICAL ETHNOBOTANY OF SOUTHERN NEW ENGLAND: RECOVERING AND REPATRIATING INDIGENOUS PLANT KNOWLEDGE

Even though most of the history and knowledge of the native peoples of southern New England has been lost, a rich body of plant lore was preserved and has been passed down to their descendants. This class will focus on a preliminary analysis of bio-cultural diversity in New England, including information on 309 plant species gleaned from ethnographic, historical, and archaeological sources.

Thursday, December 1, 7-8:30 p.m.

Garden in the Woods, Framingham, MA

Program Code: LEC8006

Instructor: Manuel Lizarralde, Associate Professor of Ethnobotany, Department of Anthropology and Department of Botany, Connecticut College

Fee: \$14 (Member) /\$16 (Nonmember)

HOW PLANTS GET AROUND

We think of plants as stationary—stuck in one spot for the boring entirety of their lives. But they have an uncanny ability to situate their young in places far from the parent plant. Discover the many ways ferns, other herbaceous plants, and trees use wind, water, animals, and other partners to disperse their seed and fruit. Bring your lunch for a one-hour talk, followed by a walk in the Garden to observe plants getting around.

Tuesday, December 6, 12:30-2:30 p.m.

Garden in the Woods, Framingham, MA

Program Code: BOT7037

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

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

Certificate: Elective: FB/Adv.FB

Cosponsor: Mass Audubon

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 by macrocharacteristics such as branching patterns, growth habits, bark, persistent fruit, galls, and habitats. The class will study the natural history of these shrubs through a program that begins in the classroom and then heads out into the field. Bring a bag lunch and a hand lens.

Saturday, December 10, 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

NEW ENGLAND HABITATS

Join Carol Govan throughout the seasons to learn about the ecology of New England habitats. Observe the different species in various niches. Whether building on existing identification skills or starting from scratch, students will learn how to define a habitat and identify and document its plants and other interesting wildlife. Each student will find a habitat near his or her home and observe it throughout the seasons, noting seasonal changes. Students will compile, share, discuss their findings, and solve mysteries together during class using various media such as photographs, drawings, notes, herbarium specimens, and rubbings. When the weather improves, the class will head outdoors to learn about the habitats at the Garden.

Thursdays, January 5, March 9, May 4, June 1, August 17, October 19, 2017, 10 a.m.-2 p.m.

Garden in the Woods, Framingham, MA

Program Code: BOT7038

Instructor: Carol Govan, artist and naturalist

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

Limit: 15

Certificate: Elective: all certificates

WETLAND SHRUBS IN WINTER

Learn to identify wetland shrubs using branching patterns, bud and bark characteristics, habitat, persistent fruits, galls, and marcescent leaves. Garden in the Woods provides an excellent field site for study. We will begin with a short session indoors, then head into the Garden for a close look at almost 20 native New England shrubs that grow in and around wetlands. Bring a bag lunch and a hand lens if you have one.

Tuesday, January 10, 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

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 14, 2017, 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



Great rosebay (*Rhododendron maximum*)

CONSERVATION BIOLOGY

In this introduction to conservation biology and biodiversity, students will learn what makes a species vulnerable to extinction and which strategies and tools can be used to protect species and ecosystems. The class 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 15, 22, 29, 2017, 10 a.m.-3:30 p.m. (Snow date: February 5)

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

HARVARD UNIVERSITY HERBARIA AND GLASS FLOWERS

Enjoy a unique tour of the world's largest university-owned herbarium. This rich and diverse collection, containing more than 5 million specimens from around the globe, dates back to the early 1800s. The tour will focus on New England natives, after which participants will break for lunch and then visit the newly reopened Glass Flowers exhibition at the Harvard Museum of Natural History. One of the museum's most famous treasures, this collection of more than 4,000 exhibits represents more than 830 plant species. It was created by glass artisans Leopold and Rudolf Blaschka. Following the tour, participants may explore the museum on their own. Bring a bag lunch.

Tuesday, January 24, 2017, 11 a.m.-2 p.m.

Cambridge, MA

Program Code: BOT6020

Instructor: Harvard University Herbarium and Natural History Museum staff

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

Limit: 18

Certificate: Elective: all certificates

WEIRD SEX IN NATURE: HOW PLANTS GET IT ON

What better way to celebrate Valentine's Day than to admire the romance of plants. But plant sex? About as interesting as watching paint dry, right? Think again. The ways plants, algae, and fungi reproduce tell us a lot about how procreation has evolved over time. Join Elizabeth Farnsworth for this racy lunchtime lecture on the many interesting reproductive strategies these species pursue. Be prepared to blush.

Tuesday, February 14, 2017, 1-2:30 p.m.

Garden in the Woods, Framingham, MA

Program Code: LEC8007

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

Fee: \$14 (Member) /\$16 (Nonmember)

Cosponsor: Mass Audubon



Northern lady fern (*Adiantum angustum*)

CLUBMOSES

Clubmosses and firmosses are two very recognizable plant families in the New England flora. Ranging from sea-level to the summits of our highest mountains, these families include many well-known as well as regionally rare species and some difficult problem groups. This lecture and guided-keying session will present the relatively new generic scheme and terminology needed to understand the morphology of the group.

Wednesday, March 1, 2017, 1-5 p.m.

Garden in the Woods, Framingham, MA

Program Code: PDW3334

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

Fee: \$54 (Member) /\$64 (Nonmember)

Limit: 16

Certificate: PDW: Adv.FB; Elective: FB

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.

Thursday, March 23, 2017, 1-4 p.m.

Garden in the Woods, Framingham, MA

Program Code: PDW3333

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

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

Limit: 16

Certificate: PDW: Adv.FB; Elective: FB

WILDFLOWERS OF NEW ENGLAND

New to the world of native plants? There's no better way to study the region's flora than in the field. In this class, we will learn to identify New England's native plants by studying their habitats at Garden in the Woods. The class will examine family characteristics, growth patterns, and key identification features of flowers, leaves, and stems. Bring a hand lens and *Wildflowers of New England*.

Garden in the Woods, Framingham, MA

Instructor: Neela de Zoysa, botanist

Fee: \$136 (Member) /\$170 (Nonmember)

Limit: 16

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

Choose one of two sections:

Tuesdays, April 25, May 2, 9, 16, 2017, 6:30-9 p.m.

Program Code: BOT3001

Wednesdays, April 26, May 3, 10, 17, 2017, 10 a.m.-12:30 p.m.

Program Code: BOT3000



White turtlehead (*Chelone glabra*)

botany + conservation

BOTANIC INVENTORY METHODS

Learn botanical survey methods and spend a day inventorying the flora of a conservation property. The evening session will cover the basics of field preparation using a variety of maps, field guides, aerial photography, GPS units, field supplies, and data sheets. The class will then spend a full day in the field putting the methods into practice. Bring a bag lunch, compass, hand lens, and GPS unit if you have one.

Thursday, June 15, 6:30-8:30 p.m.; Saturday, June 17, 2017, 10 a.m.-4 p.m.

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

Program Code: BOT2050

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

Fee: \$123 (Member) /\$145 (Nonmember)

Limit: 16

Certificate: Core: FB; Elective: all certificates

INTRODUCTION TO PLANT FAMILIES

To really know a plant, you must understand its family. In this class, we will use both microscopic and field investigation to decipher the clues to familial relationships and classifications of New England's wild plants. You will learn the basic formulas for plant structure and practice applying them to various families. Bring a bag lunch and a hand lens.

Wednesdays, July 5, 12, 19, 2017, 10 a.m.-2 p.m.

Garden in the Woods, Framingham, MA

Program Code: BOT2260

Instructor: Carol Govan, naturalist

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

Limit: 16

Certificate: Core: FB; Elective: all certificates

NEW ENGLAND PLANT COMMUNITIES

For a relatively small region, New England boasts an astonishing variety of plant com-

munities, ranging from freshwater and tidal wetlands to coastal dunes, grasslands, forests, and montane. Learn how soil, topography, moisture, geological conditions, glaciation, and historical use affect the vegetation of each community. We will study the dominant canopy, structure, range, and characteristic species of each community and then apply this knowledge in the field.

Thursdays, July 6, 13, 6-8:30 p.m.; Saturdays, July 8, 15, 22, 2017, 10 a.m.-2 p.m.

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

Program Code: BOT4000

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

Fee: \$238 (Member) /\$280 (Nonmember)

Limit: 16

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

ADVANCED PLANT INVENTORY TECHNIQUES

This course will cover the procedures and techniques for conducting a botanical inventory on conservation land. Following an evening session in 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



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.

SACO HEATH

Saco Heath was created when two adjacent ponds filled with decaying plant material called peat. Eventually the two ponds filled completely and grew together to form a raised coalesced bog, where the surface of the peat is perched above the level of the groundwater. The 1,223-acre preserve is one of the southernmost examples of this peat-land type. Bring a bag lunch.

Habitat: raised coalesced bog

Known for: pitcher plants, small and large cranberries, Labrador tea, and cotton sedges

Difficulty: easy

Sunday, September 25, 10 a.m.-2 p.m.

Saco, ME

Program Code: FDT3011

Instructor: Roland "Boot" Boutwell, naturalist

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

Limit: 12

Certificate: Field: FB/Adv.FB



Large cranberry (*Vaccinium macrocarpon*)



Black elderberry (*Sambucus nigra*)



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 at least 18 of 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 edges

Known for: weeds and invasive species typical of farm field edges, such as stinging nettle, burdock, Japanese knotweed, and autumn olive; and native species with similar habitat preferences, like elderberry, sumac, pokeweed, and black raspberry

Difficulty: easy

Saturday, October 1, 9 a.m.-12 p.m.

Drumlin Farm Wildlife Sanctuary, Lincoln, MA

Program Code: FDT1108

Instructor: Russ Cohen, author and naturalist

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

Limit: 30

Certificate: Field: FB/Adv.FB

Cosponsor: Mass Audubon

ADAMANT FERNS

Join fern expert Don Lubin to explore the beautiful rolling terrain just eight miles north of Montpelier. Adamant is home to the East Montpelier Town Forest, the Adamant School of Music, and one of the oldest food co-op stores in the country. We'll see ferns, horsetails, and clubmosses. Bring a bag lunch.

Habitat: forest

Known for: clubmosses, horsetails, and a great diversity of ferns

Difficulty: easy/moderate

Saturday, October 8, 11 a.m.-2:30 p.m.

Adamant, VT

Program Code: FDT3027

Instructor: Don Lubin, fern enthusiast

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

Limit: 15

Certificate: Field: FB/Adv.FB



Great rosebay (*Rhododendron maximum*)



LONG AND ELL PONDS

Long and Ell ponds lie at the bottom of a steep granite outcropping. The two ponds connect via a narrow band of Atlantic white cedar swamp. Microhabitats abound, as the trail rises and descends through and along the ledge. Join us for a chance to see uncommon plants as well as an extensive understory dominated by giant rhododendron. Bring a bag lunch.

Habitat: rock ledge, rhododendron swamp, and fringe bog

Known for: dramatic rocky outcrops and extensive thickets of *Rhododendron maximum*

Difficulty: moderate/difficult

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

Hopkinton, RI

Program Code: FDT2038

Instructor: Hope Leeson, botanist, Rhode Island Natural History Survey

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

Limit: 15

Certificate: Field: FB/Adv.FB

SILVIO O. CONTE NATIONAL FISH AND WILDLIFE REFUGE

Join Elizabeth Farnsworth for this leisurely botanical walk. The U. S. Fish and Wildlife Service recently installed a one-mile, ADA-accessible boardwalk and trail at the Fort River Refuge in Hadley. The trail features some of the most captivating views of the

Pioneer Valley, including vistas of mountains cloaked in fall color, and passes through diverse vegetation types.

Habitat: floodplain, forest, and fields

Known for: a mixture of habitats, gorgeous views of the Pioneer Valley and Mt. Holyoke Range, and an ADA-compliant board walk trail

Difficulty: easy (wheelchair-accessible)

Sunday, October 16, 1-3 p.m.

Hadley, MA

Program Code: FDT3026

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

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

Limit: 16

Certificate: Field: FB/Adv.FB

MORSE MOUNTAIN

This 3.8 mile walk at the Bates Morse Mountain Preserve traverses a landscape of forests, fields, and dunes that represent the range of ecosystems found along the Maine coast. On a clear day, visitors are guaranteed views of Casco Bay, Popham Beach, Sheepscot Bay, and the islands beyond. We'll focus on the geologic processes that have shaped the coast of Maine for the past 450 million years.

Habitat: northern hardwood, boreal, and pitch pine forests; salt marsh; old farm field; and sand dunes

Known for: a variety of coastal ecosystems, excellent outcrops and exposures, and spectacular views

Difficulty: easy/moderate

Friday, October 21, 10 a.m.-2 p.m.

Bates Morse Mountain Preserve, Phippsburg, ME

Program Code: FDT3012

Instructor: Don Hudson, President Emeritus, The Chewonki Foundation

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

Limit: 16

Certificate: Field: FB/Adv.FB



FUNGI IN THE FIELD

This class for the beginning mushroom hobbyist will head right into the field to look for fungi. You will learn to identify mushrooms by finding their habitats. If you can find mushroom substrates, you can find mushrooms! Many of the species we'll see will be very small—hidden under logs, in leaf litter, or in cracks in tree bark. Bring a hand lens and please note: This course is not focused on edibles.

Habitat: mixed woods with trails

Known for: mixed hardwood forests, ferns, vernal pools, pond, spring ephemerals

Difficulty: easy

Thursday, October 27, 1-5 p.m.

Garden in the Woods, Framingham, MA

Program Code: FDT1079

Instructor: Lawrence Millman, mycologist and author of *Fascinating Fungi of New England*

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

Limit: 15

Certificate: Field: FB/Adv.FB

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. The class will begin indoors, then head outdoors to the Sanctuary for a close look at 15-20 common trees and shrubs. The program will conclude indoors with a twig quiz and a hot beverage. Bring a bag lunch and a hand lens if you have one.

Habitat: oak-hickory forest, meadow, pond, and vernal pool

Known for: excellent diversity of trees and shrubs

Difficulty: easy

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

Habitat Wildlife Sanctuary, Belmont, MA

Program Code: FDT1101

Instructor: Roland "Boot" Boutwell, naturalist

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

Limit: 12

Certificate: Field: FB/Adv.FB



Turkey tail (*Trametes versicolor*)



urban gardening series

The Urban Gardening Series is a set of classes designed to help city dwellers grow healthy, sustainable, and beautiful urban 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.

PLANTING BASICS

Find out which plants thrive in an urban environment and which do not. Learn how to choose the healthiest specimens at the nursery and how to plant those trees, shrubs, and herbaceous species so they will grow for years.

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

Program Code: LEC6559

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

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? Anna Fialkoff will discuss the steps to transitioning your garden to winter dormancy and guide you through a timeline for what to do when.

Saturday, October 1, 10:30 a.m.-12 p.m.

Program Code: LEC6550

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



urban gardening series

NATIVE EDIBLES

You don't have to compromise; you can have plants in your garden that look beautiful, promote pollinators, and are edible. From ramps to fiddleheads and Jerusalem artichoke, our native flora is chock-full of tasty, landscape-worthy plants. Join Dan Jaffe for a talk on New England's best edibles. Questions concerning conservation of rare edible species will be addressed.

Wednesday, November 2, 7-8:30 p.m.

Program Code: LEC6560

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

NATURALISTIC GARDENING

Some prefer the pomp and precision of a formal landscape, while others enjoy gardens inspired by nature. Learn how to take inspiration from the mountains, rivers, and fields of New England and create beautiful, naturalistic gardens. Dan Jaffe will cover every topic from plant selection and layout to sustainable practices.

Wednesday, January 11, 2017, 7-8:30 p.m.

Program Code: LEC6561

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

PLANTS FOR THE WINTER GARDEN

It's relatively easy to design a garden for the height of spring; more challenging is creating a garden that looks beautiful in the dead of winter. Come learn about the many native plants that offer winter interest and how they can help your garden shine in winter.

Saturday, February 11, 2017, 10:30 a.m.-12 p.m.

Program Code: LEC6562

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

PESTS OF URBAN GARDENS

Designing a garden for a small space is enough of a challenge. But once you have created one, how do you fend off the uninvited guests? Although insects, critters, fungi, and other pests are part of gardening, there are ways to discourage the most destructive of them. Bring your questions, and let's find a solution!

Wednesday, March 8, 2017, 7-8:30 p.m.

Program Code: LEC6563

Instructor: Mary Sullivan, Client Relationship and Account Manager, NatureWorks Landscape Services, Inc.



Dog Laurel (*Lecythoe fontanesiana*)



Common winterberry (*Ilex verticillata*)

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 you should stagger your 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.

Thursday, September 1, 10 a.m.-2:30 p.m.;

Thursday, September 8, 11 a.m.-1 p.m.;

Thursday, September 15, 10 a.m.-2:30 p.m.

Garden in the Woods, Framingham, MA and The Arnold Arboretum of Harvard University, 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

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? Wondering what is the most wildlife-friendly approach? In the classroom and out in the garden, Anna Fialkoff will demonstrate steps to transitioning your garden into winter dormancy and guide you through a timeline for what to do when.

Saturday, October 22, 9-11 a.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

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, soil preparation, mulching, watering, pruning, maintenance, winterizing the garden, and preparing for spring. Bring a bag lunch.

Wednesdays, November 2, 9, 16, 10 a.m.-3 p.m.

Garden in the Woods, Framingham, MA

Program Code: HOR3600

Instructors: New England Wild Flower Society Horticulture Staff

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

Limit: 16

Certificate: Core: HD; Elective: Adv.HD

NATIVE EDIBLES AND HERBALS

Whether you are seeking healthy, novel, or unusual foods or are simply interested in applying botany to your everyday life, this class will enhance your knowledge of native edibles and herbals. Students will learn how to recognize and utilize wild edible and medicinal plants—from elderberries to groundnut tubers—that are harvested in late summer and autumn. Dan Jaffe and Anna Fialkoff will address safe and sustainable best practices as they explore common, rare, and threatened species in folklore and for forage and cultivation.

Thursday, November 10, 6-8 p.m.

Garden in the Woods, Framingham, MA and field sites

Program Code: HOR2093

Instructors: Anna Fialkoff, Horticulturist, and Dan Jaffe, Propagator and Stock Bed Grower, New England Wild Flower Society

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

Certificate: Elective: HD/Adv.HD

NATIVE ARRANGEMENTS

Join Anna Fialkoff in using plant materials gathered from Garden in the Woods to create a beautiful arrangement for your home or a centerpiece for your Thanksgiving table. First we will hike into the Garden to learn best practices for collecting plant materials, and then we'll head back to the classroom to create a unique display piece. Bring pruners and a container or vase for your arrangement.

Friday, November 18, 1-3 p.m.

Garden in the Woods, Framingham, MA

Program Code: HOR2903

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

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

Limit: 14

Certificate: Elective: all certificates

CITY GARDENING WITH NEW ENGLAND NATIVES

Gardening in the city can be a challenge, as gardeners often have to cope with hot, dry, and shady conditions. Learn about the tough and beautiful plants that thrive in the harsh conditions common in urban environments. David Falk will tell you where to find these plants and share some basic gardening techniques that will turn your landscape into a lush, colorful, healthy space.

Sunday, December 4, 1-2:30 p.m.

Garden in the Woods, Framingham, MA

Program Code: HOR8003

Instructor: David Falk, Horticulturist, New England Wild Flower Society and Owner, Wild City Gardens

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

Certificate: Elective: HD/Adv.HD

Cosponsor: Ecological Landscape Alliance

MEADOWS 1 2 3

No one can grow an instant meadow, but in this one-day seminar you can quickly increase your understanding of what it takes to create one. The topics covered include: what a meadow is; what makes a good meadow site; how you can prepare for planting, select plant species, and find seeds or plugs; how to plant; and what to expect from your meadow in years one, two, and three. Bring a bag lunch.

Thursday, December 8, 10 a.m.-3:30 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)

Certificate: Elective: HD/Adv.HD

Cosponsor: Ecological Landscape Alliance

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.

Wednesdays, January 11, 18, 25, February 1, 2017, 1-4 p.m.

The Arnold Arboretum, Boston, MA

Program Code: HOR3720

Instructor: Mark Richardson, Horticulture 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

HOMETOWN HABITAT, STORIES OF BRINGING NATURE HOME

Join us for a showing of *Hometown Habitat, Stories of Bringing Nature Home*, a 90-minute environmental, documentary showing how and why native plants are critical to the survival and vitality of local ecosystems. *Hometown Habitat* features renowned entomologist Dr. Douglas Tallamy, whose research, books, and lectures on the use of non-native plants in landscaping sound the alarm about habitat and species loss. Tallamy provides the narrative thread that challenges the notion that humans are here and nature is somewhere else.

Garden in the Woods, Framingham, MA

Fee: \$18 (Member) / \$25 (Nonmember)

Cosponsor: Ecological Landscape Alliance

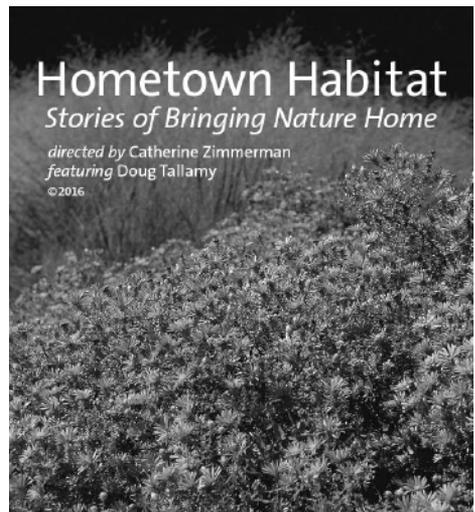
Choose one of two showings:

Wednesday, January 18, 2017, 2-3:30 p.m.

Program Code: HOR8004

Saturday, January 21, 2017, 4-5:30 p.m.

Program Code: HOR8005



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 habitat will be interspersed with lectures on design principles, including criteria for making plant choices and determining placement in the landscape. A list of required materials will be provided at the first class.

**Tuesdays, February 7, 14, 21, 28, 2017;
March 7, 14, 21, 2017, 6-8 p.m.**

Garden in the Woods, Framingham, MA

Program Code: HOR4002

Instructor: Karen Sebastian, Principal,
KarenSebastian, LLC, Landscape Architecture

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

Limit: 12

Certificate: Core: HD; Elective: Adv.HD

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 8, 15, 22, 2017,
10 a.m.-1:30 p.m.**

Garden in the Woods, Framingham, MA

Program Code: HOR3904

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

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

Limit: 16

Certificate: Core: HD; Elective: Adv.HD



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

DESIGNING GARDENS FOR SMALL SPACES

Small garden spaces present the designer with the challenge of how to realize big ideas in tight quarters. Yet small sites don't mean the garden must lack interest. This hands-on design workshop will tackle the garden as a composition by exploring enclosed space, lighting, plant characteristics, and personal expression.

Thursdays, February 9, 16, 2017, 8:30 a.m.-12 p.m.

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

Program Code: PDW4026

Instructor: Cheryl Salatino, Landscape
Designer, Dancing Shadows Garden Design,
and Massachusetts Certified Horticulturist

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

Limit: 16

Certificate: PDW: Adv.HD; Elective: HD

Cosponsor: Ecological Landscape Alliance

DESIGN WITH WATER IN MIND

Learn techniques to help you direct, store, and use water in your garden. We'll discuss practices that can be applied to all conditions, from extremely dry soil to soil that inundates during storms. We'll begin with an overview of site analysis, discuss various water management systems, and conclude with native plant selections suitable for various sites.

Saturday, February 25, 2017, 9 a.m.-12 p.m.

Garden in the Woods, Framingham, MA

Program Code: HOR2000

Instructor: Amy Nyman, Landscape Designer and Owner, Ruby Leaf Design

Fee: \$39 (Member) /\$47 (Nonmember)

Limit: 18

Certificate: Elective: HD/Adv.HD

Cosponsor: Ecological Landscape Alliance

BONES OF THE GARDEN: STRENGTHENING THE DESIGN

Every memorable landscape has one thing in common—strong “bones.” The placement of structural plants creates form, directs movement, and organizes the garden. Exploring the concepts of scale and creation of space, you will develop your own site-specific design and receive feedback on your ideas. During the final session, the class will walk in the Garden.

**Monday, March 13; Wednesday, March 15,
6:30-9 p.m.; Saturday, March 18, 2017,
9:30 a.m.-1:30 p.m.**

Garden in the Woods, Framingham, MA

Program Code: PDW4223

Instructor: Cheryl Salatino, Landscape Designer, Dancing Shadows Garden Design, and Massachusetts Certified Horticulturist

Fee: \$135 (Member) /\$162 (Nonmember)

Limit: 16

Certificate: PDW: Adv.HD; Elective: HD

Cosponsor: Ecological Landscape Alliance

WE'RE IN A TIGHT SPOT

Join Amy Nyman for this one-hour lecture to learn about native plants and design techniques that can be used to beautify small urban spaces.

Thursday, March 16, 2017, 11 a.m.-12 p.m.

Garden in the Woods, Framingham, MA

Program Code: LEC6564

Instructor: Amy Nyman, Landscape Designer and Owner, Ruby Leaf Design

Fee: \$13 (Member) /\$15 (Nonmember)

Certificate: Elective: HD/Adv.HD

Cosponsor: Ecological Landscape Alliance

FOUNDATION GARDENS THAT SAY “WELCOME HOME”

Foundation gardens and entryways can make or break the “welcome” factor and visual appeal of a home or community building. Unfortunately, foundations are often plagued by poor soil, building shadows, foot traffic, de-icers, storm runoff, and more. This seminar offers surprising new ways of seeing the complicated but valuable foundation area through design concepts. Plan before you plant!

Saturday, March 25, 2017, 10 a.m.-12 p.m.

Garden in the Woods, Framingham, MA

Program Code: HOR8002

Instructor: Kathy Connolly, Landscape Designer, Speaking of Landscapes, LLC

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

Certificate: Elective: HD/Adv.HD

NATIVE HERBACEOUS PLANT MATERIALS: EARLY SEASON

Discover numerous native perennials suitable for New England gardens. We'll look at native herbaceous plants that bloom in spring and early summer, focusing on how to use them effectively to create beautiful landscapes and gardens. Be prepared to walk in the Garden each day. This class is appropriate for landscape professionals and avid home gardeners. It is a companion to Native Herbaceous Plant Materials: Late Season, but can be taken separately.

Thursdays, April 27, May 11, 25, June 8, 2017, 1-3:30 p.m.

Garden in the Woods, Framingham, MA

Program Code: HOR1000

Instructor: Jessie Panek, landscape designer

Fee: \$154 (Member) /\$182 (Nonmember)

Limit: 12

Certificate: Core: HD; Elective: Adv.HD

NATIVE HERBACEOUS PLANT MATERIALS: LATE SEASON

Discover numerous native perennials suitable for New England gardens. We'll look at native herbaceous plants that bloom in late summer and fall, focusing on how to use them effectively to create beautiful landscapes and gardens. Be prepared to walk in the Garden each day. This class is appropriate for landscape professionals and avid home gardeners. It is a companion to Native Herbaceous Plant Materials: Early Season, but may be taken separately.

Thursdays, July 20, August 31, 2017, 1-3:30 p.m.

Garden in the Woods, Framingham, MA

Program Code: HOR1050

Instructor: Jessie Panek, landscape designer

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

Limit: 12

Certificate: Core: HD; Elective: Adv.HD



Scarlet bee-balm (*Monarda didyma*)

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



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.

GARDEN MADNESS

Visit a 30-year work in progress. What started as a small flower and vegetable garden has evolved into a large collection including fruit trees, berry shrubs, a large vegetable garden, a one-acre native woodland garden, a meadow-like pollinator garden, an herb garden, and a diverse assortment of flowers. In other words, garden madness run amok. And let us not forget the chickens...

Saturday, October 1, 1-3 p.m.

Lincoln, MA

Program Code: HDT1609

Instructor: Robin Wilkerson, garden designer

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

Limit: 16

Certificate: Field: HD/Adv.HD

THE URBAN FERN GARDEN

Join Don Lubin for this fern foray. We'll begin with a general overview of ferns: their importance, evolution, terminology, life cycle, and identification techniques. Next, we'll discuss horticultural considerations and how to grow ferns in the garden. Finally, we'll walk the property—a small city lot—to look at the nearly 40 species of ferns growing there.

Sunday, October 2, 1-3 p.m.

Allston, MA

Program Code: HDT1608

Instructor: Don Lubin, fern enthusiast

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

Limit: 10

Certificate: Field: HD/Adv.HD

FALL GARDENS IN THE CITY

Fall is the most colorful time of year in New England. Join us in early October to visit several urban garden sanctuaries that make the most of the season. Learn how to keep your garden beautiful and beneficial for wildlife through winter and into spring.

Saturday, October 8, 10-11:30 a.m.

Somerville, MA

Program Code: HDT1607

Instructor: David Falk, Horticulturist, New England Wild Flower Society and owner, Wild City Gardens

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

Limit: 15

Certificate: Field: HD/Adv.HD



Maidenhair fern (*Adiantum*)

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
- Borrowing privileges at our 4,500-volume botanical library (*Individual with Garden Access level and up*)
- Invitations to special, members-only events (*Individual with Garden Access level and up*).

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.

JOIN
A SOCIETY-SPONSORED TRIP
TO

Cuba

January 6-15, 2017

A people-to-people exploration of Cuba with a botanical slant

The Society will travel on a General License with the U.S. Treasury Department to take friends and members on a people-to-people exploration of Cuba.

On this unique and fascinating program, we begin our tour in Old Havana and continue to the Jardín Botánico Soledad, the Escambray Mountains, and the Spanish colonial cities of Cienfuegos and Trinidad.

Havana's old town is rich with culture, music, museums, architecture, and more. We will explore Cuba's diverse landscapes, including the plains ideal for growing sugar cane, and the mountain regions.

Details at
www.newenglandwild.org/learn/cuba



NEW ENGLAND WILD FLOWER SOCIETY

HEADQUARTERS & GARDEN IN THE WOODS

180 Hemenway Road

Framingham, Massachusetts 01701-2699

ADDRESS SERVICE REQUESTED