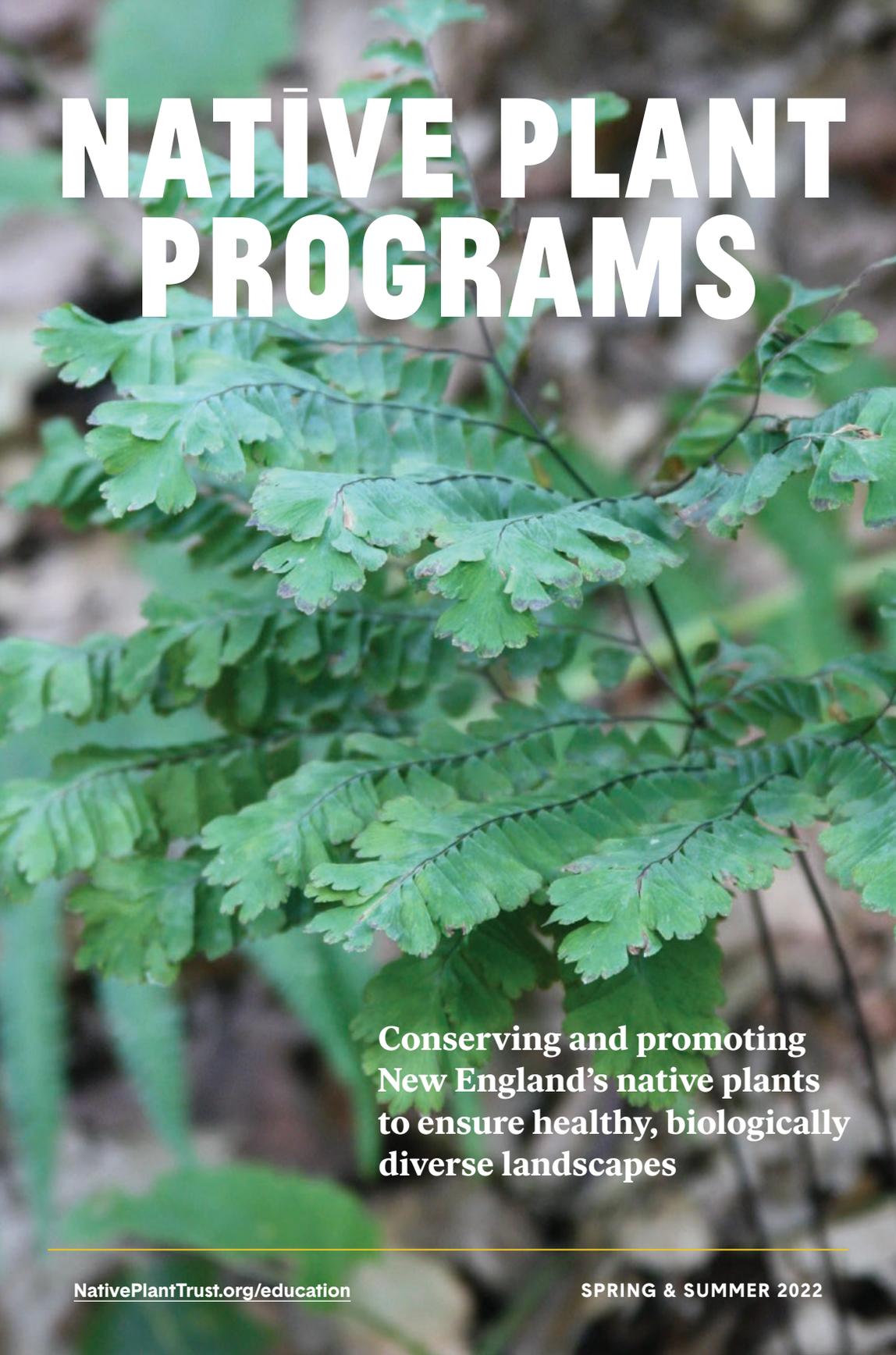


# NATIVE PLANT PROGRAMS



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

## ABOUT NATIVE PLANT TRUST

Native Plant Trust is the nation's first plant conservation organization and the only one solely focused on New England's native plants. We save native plants in the wild, grow them for gardens and restorations, and educate others on their value and use. We are based at Garden in the Woods, a renowned native plant botanic garden that attracts visitors from all over the world. From this flagship property in Framingham, Massachusetts, 25 staff and many of our 1,500 trained volunteers work throughout New England each year 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. Native Plant Trust also operates a nursery at Nasami Farm in western Massachusetts and manages six sanctuaries in Maine, New Hampshire, and Vermont that are open to the public. Native Plant Trust is among the first organizations worldwide to receive Advanced Conservation Practitioner accreditation by London-based Botanic Gardens Conservation International (BGCI), which included an endorsement by an International Advisory Council representing six continents. Please visit [www.NativePlantTrust.org](http://www.NativePlantTrust.org).

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Many of our programs qualify for continuing education units. Below is a list of CEUs we offer. Visit [NativePlantTrust.org/education](http://NativePlantTrust.org/education) for a list of qualifying programs.

**AOLCP** - Northeast Organic Farming Association Accredited Organic Land Care Professionals

**CERP** - Society for Ecological Restoration's Continuing Education

**CFE** - Society of American Foresters' Continuing Forestry Education

**LACES** - American Society of Landscape Architects' Continuing Education

**MCA** - Massachusetts Certified Arborist

**MCH** - Massachusetts Certified Horticulturist

**MCLP** - Massachusetts Certified Landscape Professional

## Native Plant Trust

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Program catalog is published twice a year by Native Plant Trust. Members receive discounts on all programs. Annual membership dues start at \$40 for individuals. See page 46 for information.

Printed on recycled paper.

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### ON THE COVER

Northern maidenhair fern  
(*Adiantum pedatum*)  
Dan Jaffe © Native Plant Trust



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We hope you enjoy exploring almost 100 programs at Native Plant Trust for the Spring/Summer 2022 season, including many that have never been offered before, such as Cultivating Native Mosses. Many programs are offered virtually or can be adapted to an online format.

Over the past year, Native Plant Trust has welcomed thousands of new and returning learners to programs conducted safely online. As we plan for the season of warmer weather and nature's renewal, we are providing a range of formats, both in person and online, for accessing the outdoors, innovation, and research— from field studies spanning New England to a book talk series. Spring and summer programs also offer a variety of learning opportunities for gardening enthusiasts, including workshops on shade gardens, rewilding with native trees, and slow gardening. New field and landscape studies will be offered in person throughout New England, featuring designers such as STIMSON landscapes.

It is our pleasure to create lifelong learning opportunities. We thank you, our community, for continuing to learn with us and to build hope during challenging times. Learning continues to unite us and help us thrive.

*Please note: Many programs are eligible for continuing education credits for professionals in conservation, horticulture, landscape, and arboriculture. Please check the program listings on the website [NativePlantTrust.org](https://NativePlantTrust.org) for details.*



Cinnamon fern  
(*Osmundastrum cinnamomeum*)  
© Native Plant Trust

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For more information and  
to register online visit:  
[NativePlantTrust.org/education](http://NativePlantTrust.org/education) 

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Canada serviceberry  
(*Amelanchier canadensis*)  
Dan Jaffe © Native Plant Trust

# Events

## Trillium Week May 9-15, 2022

The trillium collection at Garden in the Woods is the largest collection of trilliums north of Delaware and is recognized as a Nationally Accredited Plant Collection by the American Public Gardens Association. Please join us for our seventh annual Trillium Week to celebrate the fleeting beauty of this exquisite flower.



## Trillium Tours

Take a guided tour for an in-depth look at Native Plant Trust's award-winning trillium collection. Tours meet at the visitor center.

Wednesday, May 11, 2022, 11 a.m.-12:30 p.m.

Friday, May 13, 2022, 11 a.m.-12:30 p.m.

Saturday, May 14, 2022, 2-3:30 p.m.

Sunday, May 15, 2022, 2-3:30 p.m.

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## Trillium Workshops

Join Native Plant Trust staff for expert advice on how to select trilliums, prepare a site for planting, and care for them once they're in the ground.

Tuesday, May 10, 2022, 1-2 p.m.

Thursday, May 12, 2022, 1-2 p.m.

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## Twilight Trilliums

Stroll the Garden after hours during Trillium Week while enjoying local beverages and live music on a beautiful spring evening. Included with event registration: garden access, live entertainment, learning activities, and light refreshments.

Friday, May 13, 2022, 6-8 p.m.

Fee: \$30 (Members)/\$36 (Nonmembers)

01

# Author Talks

The Author Book Talk series at Native Plant Trust highlights top new publications about plants. Featuring some of the most highly regarded botanists and horticulturists, this series offers you the opportunity to ask questions and interact with experts. Books are available through our shop. All author talks are \$15 (Members)/\$18 (Nonmembers) and count as an elective toward all certificates.

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## ***The Northeast Native Plant Primer: 235 Plants for an Earth-Friendly Garden***

Join Uli Lorimer, Director of Horticulture at Native Plant Trust, for the debut of his new book from Timber Press, *The Northeast Native Plant Primer, 235 Plants for an Earth-Friendly Garden*. The book provides a roadmap for how to include native plants in your garden, whether you are new to gardening or a seasoned professional. For those who care about the natural world, the decision to plant natives in the garden is one of the most impactful and important choices we can make: native plants have the power to heal our landscapes, welcome wildlife into our gardens, and inspire us daily.

Friday, June 10, 2022, 12:30-2 p.m.

Wednesday, September 14, 2022, 6-7:30 p.m.

Garden in the Woods, Framingham, MA

Program Code: LEC9005

## ***The Heirloom Gardener***

Join John Forti, garden historian and ethnobotanist, for an insightful perspective on his recent book, *The Heirloom Gardener: Traditional Plants and Skills for the Modern World*. For gardeners who want to deepen their knowledge and improve life for people, pollinators, and wildlife in their own backyards and community landscapes, this book provides a valuable guide, with sections on storied plants and artisanal skills such as seed-saving, herbalism, foraging, distillation, ethnobotany, and organics for the arts.

Thursday, August 18, 2022, 6-7:30 p.m.

Live Virtual

Program Code: LEC9006

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## **Lessons from Plants**

Join Dr. Beronda Montgomery for an engaging virtual discussion about her acclaimed book, *Lessons from Plants*. She will show how we might improve human society by better appreciating not just what plants give us but also how they achieve their own purposes. Montgomery's meditative study poses a question with the power to reframe the way we live: What would a plant do?

Thursday, September 8, 2022, 6-7 p.m.

Live Virtual

Program Code: LEC9007

# Online Learning

## Self-Paced Courses

### Plant Form and Function

This introduction to botany covers the basics of plant anatomy and physiology and addresses the fundamentals of the plant kingdom, taking a microscopic look at roots, stems, leaves, and their component tissues. We will also examine flowers, fruits, and seeds and discuss pollination, fertilization, dispersal, and germination, with an emphasis on the relationship between plant form and function. This Basic Certificate online core course is self-paced, with opportunities for peer discussion and field projects. A facilitator will guide you in your learning, review your assignments, and answer your questions.

Course access available from April 25, 2022 to September 12, 2022

Program Code: CERO100

Instructor: George LoCascio, conservation biologist

Fee: \$150 (Members)/\$200 (Nonmembers)

Certificate: Basic Core

### Plant Ecology

Plant ecology addresses the distribution and abundance of plants and their interactions with other organisms and the physical environment, and will explore factors that affect plants as individuals, populations, and communities, including life history, resource use, competition, and animal-plant interactions (e.g., pollination, dispersal, herbivory). This Basic Certificate online core course is self-paced, with opportunities for peer discussion and field projects. A facilitator will guide you in your learning, review your assignments, and answer your questions.

Course access available from April 25, 2022 to September 12, 2022

Program Code: CERO101

Instructor: Jennifer McCarthy, Division Chief (emerita), U.S. Army Corps of Engineers, New England District

Fee: \$150 (Members)/\$200 (Nonmembers)

Certificate: Basic Core



01

## Plant Families

What are the underlying evolutionary relationships and patterns in plants? In this foundational course, you will learn the botanical terms used to describe plants and flowers, the evolutionary/phylogenetic basis for classification, and the identifying characteristics for several major plant families common to New England. With diagrams, images, and further resources offered to reinforce the concepts, participants will apply the material through indoor and outdoor assignments and peer forums. This Basic Certificate online core course is self-paced, with opportunities for peer discussion and field projects. A facilitator will guide you in your learning, review your assignments, and answer your questions.

Course access available from April 25, 2022 to September 12, 2022

Program Code: CERO102

Instructor: Neela de Zoysa, botanist

Fee: \$150 (Members)/\$200 (Nonmembers)

Certificate: Basic Core



02

## Designing with Native Plants

This online course teaches the basics of designing with native plants and shows how to incorporate native plants into the 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. You can complete the course at your own pace.

Course access available from April 25, 2022 to September 12, 2022

Program Code: HORO100

Fee: \$80 (Members)/\$98 (Nonmembers)

Certificate: Elective: Basic and Advanced, Horticulture

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## Gardening for Pollinators

This online course teaches how to convert a yard into productive pollinator habitat. Learn about issues associated with pollinator decline and current conservation efforts, as well as the variety of pollinators and native plants that support their life cycles. The course also covers basic pollinator garden design and provides step-by-step instructions for selecting plants and installing and maintaining these habitats. You can complete the course at your own pace.

Course access available from April 25, 2022 to September 12, 2022

Program Code: HORO101

Fee: \$80 (Members)/\$98 (Nonmembers)

Certificate: Elective: Basic and Advanced, Horticulture

# Online Learning

## Live Virtual Programs

### Hawkweeds and King-Devils

This composite family is notorious for how difficult it is to botanize in the field. The genera *Hieracium* and *Pilosella* (formerly included in a single genus) are challenging to distinguish because of their subtle distinctions, the importance of micromorphological details, and hybridization. This webinar will explain the rationale for splitting the two genera, using visuals to guide identification. We will also discuss species of conservation concern that could benefit from additional field surveys.

Friday, April 8, 2022, 1-2 p.m.

Program Code: BOTW706

Instructor: Arthur Haines, Senior Research Botanist, Native Plant Trust and author of *Flora Novae Angliae*

Fee: \$12 (Members)/\$15 (Nonmembers)

Certificate: Elective: Basic and Advanced, Botany



03

04



### Early Detection of Invasive Plants

Invasive plants are not typically prohibited from the nursery trade until after they have spread throughout an ecoregion. As an alternative, a proactive new approach evaluates the threats of invasive plants before they become a significant problem. This webinar explores this new approach to listing invasive plants, focusing on early detection of potential invasives that may become established in New England.

Tuesday, April 12, 2022, 1-2 p.m.

Program Code: BOTW905

Instructor: Bud Sechler, Ecological Programs Coordinator, Native Plant Trust

Fee: \$15 (Members)/\$18 (Nonmembers)

Certificate: Elective: Basic and Advanced, Botany

## Revitalizing the Garden: Incorporating Native Plants into Existing Landscapes

Over time, portions of our gardens are ready for a makeover. In this workshop, we'll cover essential design techniques for assessing, reshaping, and diversifying established and newly imagined garden beds. We'll jump-start your renovation by introducing a selection of native woody plants and perennials to match your growing conditions. You'll be able to apply these principles by selecting an area on your property to revitalize.

Wednesdays, April 13, 27, 2022, 6-9 p.m.

Program Code: HOR4117

Instructor: Cheryl Salatino, landscape designer, Dancing Shadows Garden Design, and MA certified horticulturist

Fee: \$90 (Members)/\$108 (Nonmembers)

Certificate: Elective: Basic and Advanced, Horticulture

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## Snakeroots, Thoroughworts, and Joe-Pye Weeds

For many years considered a single genus, the plants now included in *Ageratina*, *Eupatorium*, and *Eutrochium* represent some of the more difficult composites to identify in the New England landscape. With several species derived from hybridization, the morphological distinctions are often subtle and difficult to interpret. This webinar will illuminate the characteristics used to distinguish genera and species within this complex group and provide an ecological understanding of the species to assist with their identification.

05



Tuesday, April 26, 2022, 1-2 p.m.

Program Code: BOTW707

Instructor: Arthur Haines, Senior Research Botanist, Native Plant Trust and author of *Flora Novae Angliae*

Fee: \$12 (Members)/\$15 (Nonmembers)

Certificate: Elective: Basic and Advanced, Botany

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## Seed Dormancy

The origin of the seed was a pivotal event in plant evolution. Seeds, brilliantly described by Jonathan Silvertown as “embryos in picnic baskets,” determine where, how, and when plants move across the landscape. In addition to dispersal in space, seeds have also evolved a mechanism for dispersing through time, an adaptation known as seed dormancy. This program will introduce you to seed dormancy types and classification, the evolutionary history and biogeography of dormancy mechanisms, and current topics in seed research relevant to plant conservation and ecological restoration.

Tuesday, May 3, 2022, 1-2 p.m.

Program Code: BOTW517

Instructor: Dr. Jessamine Finch, Research Botanist, Native Plant Trust

Fee: \$12 (Members)/\$15 (Nonmembers)

Certificate: Elective: Basic and Advanced, Botany

# Online Learning

## Live Virtual Programs

### Eco-Restorative Garden Design

What does it take to create a conservation and restoration landscape project in your own backyard? In this workshop, we will explore the principles underlying these small-scale projects and outline specific steps to keep you engaged and confident while completing them. You will learn tips, techniques, and a well-defined process for transforming a small plot of land to a native plant landscape. Topics cover everything from removing invasives to analyzing the site, conserving resources, and enhancing aesthetics and wildlife habitat.

Mondays, May 9, 16, 2022, 6-8 p.m.

Program Code: HOR4224

Instructor: Staci Jasin, landscape designer

Fee: \$60 (Members)/\$72 (Nonmembers)

Certificate: Elective: Basic and Advanced, Horticulture



06

### Deer-Tolerant Landscapes

Sharing landscapes with deer can result in costly damage to plantings. Join us to learn about deer behavior and natural preventative measures to safeguard your garden. We will also review a selection of deer-tolerant plants and point out those considered “deer candy.”

Thursday, June 2, 2022, 6-8 p.m.

Program Code: HOR4028

Instructor: Cheryl Salafino, landscape designer, Dancing Shadows Garden Design, and MA certified horticulturist

Fee: \$30 (Members)/\$36 (Nonmembers)

Certificate: Elective: Basic and Advanced, Horticulture

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### Native Species, Cultivars, and Selections

What is a native plant? How do I decide what is best for my garden and for the environment? This session will help you answer these frequently asked questions. You will learn about the nuances that distinguish cultivars from native plant selections and the implications for the garden and beyond.

Friday, June 3, 2022, 1-3 p.m.

Program Code: HOR1090

Instructor: Uli Lorimer, Director of Horticulture, Native Plant Trust

Fee: \$30 (Members)/\$36 (Nonmembers)

Certificate: Elective: Basic and Advanced, Horticulture

## Field Discoveries

Join Native Plant Trust for a closer look at some of the rare New England plants we monitored in the most recent field season, as well as some new plants we discovered. This webinar will also discuss conservation facilitation and address how the pandemic and a transition to a new data system are affecting Native Plant Trust's Plant Conservation Volunteer efforts.

Tuesday, June 7, 2022, 1-2 p.m.

Program Code: BOTW411

Instructor: Micah Jasny, Botanical Coordinator,  
Native Plant Trust

Fee: \$12 (Members)/\$15 (Nonmembers)

Certificate: Elective: Basic and Advanced, Botany

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## The Meaning of Gardens

For garden makers and visitors alike, the beauty or symbolism of a garden may kindle a sense of connection to a larger world, physical or imaginary. Garden creation begins in the imagination as a quest for meaning. We will explore the process of imagining a garden that holds personal meaning and look at examples of types of gardens that fulfill meaning-making for their creators or for visitors.

Tuesday, June 14, 2022, 1-2 p.m.

Program Code: HORW502

Instructor: Jane Roy Brown, Writer-Editor, Native  
Plant Trust

Fee: \$12 (Members)/\$15 (Nonmembers)

Certificate: Elective: Basic and Advanced,  
Horticulture

## Introduction to Grasses Identification

Many people are apprehensive about identifying grasses. With a little practice, however, you can learn to recognize common native and non native species using an everyday vocabulary and easy-to-see characteristics. Lauren Brown, co-author with Ted Elliman of *Grasses, Sedges, Rushes: An Identification Guide*, will provide an introduction to these beautiful and abundant plants.

Friday, June 17, 2022, 9 a.m.-12:30 p.m.

Program Code: BOT3523

Instructor: Lauren Brown, author of *Weeds and Wildflowers in Winter*, *Grasses: An Identification Guide*, and *Grasses, Sedges, Rushes: An Identification Guide*

Fee: \$53 (Members)/\$63 (Nonmembers)

Certificate: Elective: Basic and Advanced, Botany

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## Introduction to Designing with Native Plants

Although most often associated with natural settings such as meadows, forests, and pond edges, native plants can work beautifully in built landscapes. Learn which native plants work best for gardens, and which principles of design enhance their aesthetic appeal.

Tuesday, June 28, 2022, 1-2 p.m.

Program Code: HORW210

Instructor: Anna Fialkoff, Program Manager, Wild  
Seed Project

Fee: \$12 (Members)/\$15 (Nonmembers)

Certificate: Elective: Basic and Advanced,  
Horticulture

Cosponsor: Wild Seed Project

# Online Learning

## Live Virtual Programs



07

### New England Roses

Dubbed “the queen of flowers,” roses are perhaps the most recognizable of blooms. Several rose species are native to New England, and many more are introduced and naturalized and have become a familiar part of our landscape. Their beautiful scented blossoms are popular with pollinators, their spiny thickets provide important habitat for wildlife, and hardy shrubs and ramblers are prized by gardeners. Learn to distinguish native species, common naturalized species, and the invasive multiflora roses.

Wednesday, June 29, 2022, 6-9 p.m.

Program Code: BOT3024

Instructor: Neela de Zoysa, botanist

Fee: \$45 (Members)/\$54 (Nonmembers)

Certificate: Elective: Basic and Advanced, Botany

### Native Plant Guides

Picking out your plants should be fun and creative, not daunting or complicated. In this webinar, we will learn how to create a native plant palette with trees and groundcovers. Using sample plant lists for various conditions, you will receive step-by-step guidance to inspire you with ideas for Fall 2022 planting.

Tuesday, July 26, 2022, 1-2 p.m.

Program Code: HORW100

Instructor: Anna Fialkoff, Program Manager, Wild Seed Project

Fee: \$12 (Members)/\$15 (Nonmembers)

Certificate: Elective: Basic and Advanced, Horticulture

Cosponsor: Wild Seed Project

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### Conservation Success Stories

What does it mean to be a conservation success? While there are 938 plant species currently listed under the Endangered Species Act, this webinar will examine some of the species that have been delisted thanks to recovery. We will consider why these recovery efforts succeeded, applicable strategies for other recovery projects, and ramifications for the delisted species.

Tuesday, August 2, 2022, 1-2 p.m.

Program Code: BOTW410

Instructor: Micah Jasny, Botanical Coordinator, Native Plant Trust

Fee: \$12 (Members)/\$15 (Nonmembers)

Certificate: Elective: Basic and Advanced, Botany

## Managing Yards for Plant Biodiversity

Suburban yards can support remarkably high plant biodiversity. How homeowners manage their yards largely determines the plant composition of these expanding ecosystems. In this talk, Woodwell Climate Research Center Ecologist Christopher Neill and Conservation Biologist Desiree Narango describe findings from a one-of-a-kind, nationwide research project that examined the flora, soils, microclimates, insects, and birds in suburban yards in six metropolitan regions across the United States, including Boston. Neill will address how suburbanization does or does not homogenize residential landscapes compared with the natural areas that surround these cities. He will connect this new research to ways that homeowners can modify their yards to support native plants and wildlife and how the new collaboration between Native Plant Trust and Woodwell Climate Research Center shares the research with a broader audience.

Saturday, August 6, 2022, 10-11 a.m.

Program Code: HOR4242

Instructor: Dr. Christopher Neill, Senior Scientist, Woodwell Climate Research Center

Fee: Free

Cosponsor: Woodwell Climate Research Center



08

## Shade Gardens: Embracing the Dark Side

Creating lush and vibrant gardens in the shade tends to frustrate even the best gardeners. How do we infuse more color, adventure, and intrigue into these spaces? This workshop blends site-specific assessment, design strategies, and plant options. Bring your project to participate in a flash design collaboration.

Saturday, August 13, 2022, 1-4 p.m.

Program Code: HOR1214

Instructor: Cheryl Salatino, landscape designer, Dancing Shadows Garden Design, and MA certified horticulturist

Fee: \$45 (Members)/\$54 (Nonmembers)

Certificate: Elective: Basic and Advanced, Horticulture

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## Unique Flora of Plainfield Sanctuary and Silverweed Seep

The banks of the Connecticut River in southern New Hampshire are home to exceptional natural community types with unique flora, including many plant species that are rare in the state. Join us for this webinar to learn about the ecology of these natural communities and their plant species. We will focus on rare plant species while also addressing conservation efforts, monitoring, and management considerations.

Tuesday, August 30, 2022, 1-2 p.m.

Program Code: BOTW409

Instructor: Bud Sechler, Ecological Programs Coordinator, Native Plant Trust

Fee: \$15 (Members)/\$18 (Nonmembers)

Certificate: Elective: Basic and Advanced, Botany

# Online Learning

## Live Virtual Programs

### Gardening for the Birds

Go beyond conventional bird feeders—use native plants to turn your backyard into a diverse, year-round avian habitat. Learn what the birds of New England actually need from us and become part of the new, natural approach, using planting aesthetics that embrace the ecological value of native species, variety, and untidiness. This program addresses fruit-bearing shrubs, pollinators, and birds' feeding and nesting preferences.

Tuesday, September 13, 2022, 1-2 p.m.

Program Code: HORW21

Instructor: Chris Leahy, Council Member, Native Plant Trust and Gerard A. Bertrand Chair of Natural History and Field Ornithology (emeritus), Mass Audubon

Fee: \$12 (Members)/\$15 (Nonmembers)

Certificate: Elective: all certificates

### Garden Design for Child Development

Whether in a home setting or a schoolyard habitat, designing children's gardens requires not only an understanding of basic landscape design but also special attention to children's safety, engagement, and socialization needs. In this class, you will learn how to design a children's garden that appeals to all five senses, evokes playfulness and learning, and instills a love of nature that will grow into stewardship and environmental sensitivity.

Saturdays, September 17, 24, 2022, 10 a.m.-12 p.m.

Program Code: HOR8036

Instructor: Staci Jasin, landscape designer

Fee: \$60 (Members)/\$72 (Nonmembers)

Certificate: Elective: Basic and Advanced, Horticulture

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### Cultivating Your Plant Communities

Your backyard has a unique plant community based on the ecology and geology of the area. In this three-part workshop, learn to identify appropriate native plants and groupings for your site and create a personalized plant palette and design that is beautiful and enhances biodiversity.

Tuesdays, September 20, 27, October 4, 2022, 6-9 p.m.

Program Code: HOR3607

Instructor: Staci Jasin, landscape designer

Fee: \$135 (Members)/\$162 (Nonmembers)

Certificate: Elective: all certificates



09



Black chokeberry  
(*Aronia melanocarpa*)  
Dan Jaffe © Native Plant Trust

# Botany & Conservation

## Invasive Knotweeds

How and why do invasive knotweeds cause erosion, and what can you do about it? In this hybrid course, you will learn about the larger context of knotweeds, including how their management contributes to a more climate-resilient future and ways to integrate new scientific findings into existing conservation practices. You will also get some hands-on management experience in the field. The first class will be live virtual and the second will take place in the field.

Thursday, April 28, 2022, 6:30-8:30 p.m. and  
Saturday, April 30, 2022, 10 a.m.-12:00 p.m.

Live virtual and NH field site

Program Code: BOT5127

Instructor: Brian Collieran, conservation biologist

Fee: \$60 (Members)/\$72 (Nonmembers)

Certificate: Elective: Basic and Advanced, Botany



01

02



## Milkweeds and Dogbanes

Milkweeds (*Asclepias*) are some of the most attractive and fragrant wildflowers, and are magnets for butterflies and pollinators. Learn about their special relationship with monarch butterflies, complex flower structure, ingenious pollination strategy, and protective chemical arsenal. This class will help you identify the common and rare species and recognize their surprising range of habitats. You will also learn tips for milkweed cultivation and discuss the dangers that threaten this native plant.

Saturday, July 16, 2022, 12:30-4:30 p.m.

Garden in the Woods, Framingham, MA

Program Code: BOT3025

Instructor: Neela de Zoysa, botanist

Fee: \$60 (Members)/\$72 (Nonmembers)

Certificate: Elective: Basic and Advanced, Botany

## Knotty Smartweeds

Smartweeds (*Persicaria* spp.) are ubiquitous in our summer landscapes, but individually they can be challenging to identify. Through classroom presentation, a close look at herbarium specimens, and field observation in the Garden, you will learn the identification features that distinguish each of the 22 smartweed species in New England.

Sunday, July 17, 2022, 10:30 a.m.-2:00 p.m.

Garden in the Woods, Framingham, MA

Program Code: BOT3028

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

Fee: \$53 (Members)/\$63 (Nonmembers)

Certificate: Elective: Basic and Advanced, Botany

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## Orchids of New England

Orchidaceae is one of the largest plant families in the world, and there are 50 orchid species native to New England, from showy lady's-slipper (*Cypripedium reginae*) to rose pogonia (*Pogonia ophioglossoides*). While some species are common, many are of conservation concern. This session provides context for understanding native orchid habitats, diversity, and conservation issues. You will learn identification techniques, pollination strategies, and life-cycle stages for native orchids.

Saturday, July 23, 2022, 12:30-4:30 p.m.

Garden in the Woods, Framingham, MA

Program Code: BOT3036

Instructor: Neela de Zoysa, botanist

Fee: \$60 (Members)/\$72 (Nonmembers)

Certificate: Elective: Basic and Advanced, Botany

## Introduction to Ferns

New England boasts habitats with numerous native fern species—but for a beginner, they can look quite similar. This survey addresses fern identification techniques, biology, and ecology. Through a visual presentation and field application, you will learn to use macro features to identify New England's most common fern species, their associated plant communities, and shifts in communities due to site conditions.

Saturday, July 30, 2022, 10 a.m.-2 p.m.

Nasami Farm, Whately, MA, and field site

Program Code: BOT3431

Instructor: Randy Stone, Pioneer Valley Fern Society

Fee: \$60 (Members)/\$72 (Nonmembers)

Certificate: Elective: Basic and Advanced, Botany

03



# Botany & Conservation

## Asters and Goldenrods

Asters (*Asteraceae*) and goldenrods (*Solidago*) are autumn showstoppers, but they are also large and taxonomically complex groups, and sometimes it can be difficult to distinguish one aster from another. Through a visual presentation, herbarium specimens, and field application, you will learn how to identify several species of asters and goldenrods and how to use identification keys to differentiate between visually similar species based on subtle characteristics and habitats.

Saturday, September 10 and Sunday, September 11, 2022, 10:30 a.m.- 2:30 p.m.

Garden in the Woods, Framingham, MA

Program Code: PDW4400

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

Fee: \$120 (Members)/\$144 (Nonmembers)

Certificate: Elective: Basic and Advanced, Botany

## New England Climbers

Native climbers are an ecologically and taxonomically varied group of plants. They range from rare and vulnerable species, such as Allegheny vine (*Adlumia fungosa*) and the American climbing fern (*Lygodium palmatum*) to those proliferating due to forest fragmentation and warming climate, such as wild grapes (*Vitis* spp.) and poison ivy (*Toxicodendron radicans*). Learn about 50 climbers and become familiar with identification characteristics.

Wednesday, September 14, 2022, 12:30-4:30 p.m.

Garden in the Woods, Framingham, MA

Program Code: BOT3020

Instructor: Neela de Zoysa, botanist

Fee: \$60 (Members)/\$72 (Nonmembers)

Certificate: Elective: Basic and Advanced, Botany



04



Fox grape (*Vitis labrusca*)  
Dan Jaffe © Native Plant Trust

# Field Studies

## Sanctuary Series

### Plainfield Sanctuary

Join us for an off-trail adventure into a mixed northern hardwood-hemlock forest full of spring ephemerals on Native Plant Trust's 86-acre sanctuary adjacent to the Connecticut River in New Hampshire. Spot favorites such as bloodroot (*Sanguinaria canadensis*) and red columbine (*Aquilegia canadensis*) and discover rare plants such as large-flowered bellwort (*Uvularia grandiflora*), and green-dragon (*Arisaema dracontium*). The field study also addresses common invasives that threaten native plants and approaches for combating them. Please note: this moderate hike is intended for experienced hikers.

Saturday, May 7, 2022, 10 a.m.-12:30 p.m.

Plainfield, NH

Program Code: FDT3017

Instructor: Bud Sechler, Ecological Programs  
Coordinator, Native Plant Trust

Fee: \$38 (Members)/\$45 (Nonmembers)

Certificate: Field: Basic and Advanced, Botany

### Hobbs Fern Sanctuary

Explore Hobbs Fern Sanctuary, Native Plant Trust's 240-acre property in New Hampshire, with more than 40 varieties of ferns, including several rare species and unusual wood fern hybrids. An enriched slope and ledge area host an abundance of maidenhair fern (*Adiantum*), bulblet

fern (*Cystopteris bulbifera*), silvery glade fern (*Deparia acrostichoides*), hepatica (*Hepatica*), bloodroot (*Sanguinaria canadensis*), and spring beauty (*Claytonia*). Other features include wood fern swamp (*Dryopteris cristata*), with multiple species of *Pyrola* and showy lady's-slipper (*Cypripedium reginae*) and acres of boreal spruce/fir forest dotted with beaver ponds and unique wetlands.

Saturday, May 14, 2022, 12:30-3:30 p.m.

Lyman, NH

Program Code: FDT4021

Instructor: Bud Sechler, Ecological Programs  
Coordinator, Native Plant Trust

Fee: \$38 (Members)/\$45 (Nonmembers)

Certificate: Field: Basic and Advanced, Botany

### Annie Sturgis Sanctuary

Join us for a hike through Native Plant Trust's 40-acre tract along the Kennebec River in Maine. Descend the gully into a woodland to visit a variety of lime-loving plants, including wild ginger (*Asarum canadense*, extremely rare in Maine), bloodroot (*Sanguinaria canadensis*), trout lily (*Erythronium americanum*), and purple trillium (*Trillium erectum*). Please note: this moderate hike is intended for experienced hikers.

Sunday, May 15, 2022, 10 a.m.-2 p.m.

Vassalboro, ME

Program Code: FDT9001

Instructor: Arthur Haines, Senior Research Botanist, Native Plant Trust and author of *Flora Novae Angliae*

Fee: \$60 (Members)/\$72 (Nonmembers)

Certificate: Field: Basic and Advanced, Botany

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## Eshqua Bog

Join Bud Sechler, staff Ecological Programs Coordinator, for a boardwalk stroll through Native Plant Trust's 40-acre fen to view our renowned showcase of showy lady's-slipper (*Cypripedium reginae*) and yellow lady's-slipper (*Cypripedium parviflorum*). Experience the orchids at their peak and learn about efforts to protect their wetland habitat from encroaching invasive plants from the forest. We will also enjoy the surrounding red maple-tamarack swamp and the northern hardwood forest.

Thursday, June 23, 2022, 10 a.m.-1 p.m.

Hartland, VT

Program Code: FDT5007

Instructor: Bud Sechler, Ecological Programs Coordinator, Native Plant Trust

Fee: \$45 (Members)/\$54 (Nonmembers)

Certificate: Field: Basic and Advanced, Botany

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## Harvey Butler Rhododendron Sanctuary

Explore a five-acre stand of great laurel (*Rhododendron maximum*), the largest and northernmost stand known in the region, owned by Native Plant Trust. We will discover a multitude of other native plant gems on the rest of the 30-acre property, from yellow blue-bead lily (*Clintonia*

*borealis*) to painted trillium (*Trillium undulatum*), hemlock (*Tsuga canadensis*), and northern white cedar (*Thuja occidentalis*).

Sunday, July 10, 2022, 10:00 a.m.-12:30 p.m.

Springvale, ME

Program Code: FDT9002

Instructor: Heather McCargo, Founder and Seed Program Manager, Wild Seed Project

Fee: \$38 (Members)/\$45 (Nonmembers)

Certificate: Field: Basic and Advanced, Botany

Cosponsor: Wild Seed Project

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## Coffin Wildflower Reservation

This sanctuary is one of seven owned by Native Plant Trust. Hilly woods, a brook, and 1,256 feet of sandy shore and tidal marsh make up the 177-acre area, which borders lovely Merrymeeting Bay, well-known for its diversity of waterfowl. Hike the mixed hardwood-conifer forest trails along the east side of the bay to a large, old stand of bigtooth aspen (*Populus grandidentata*) and fascinating freshwater estuary plants that are limited to this rare habitat type.

Friday, September 16, 2022, 10 a.m.-1 p.m.

Woolwich, ME

Program Code: FDT8029

Instructor: Bud Sechler, Ecological Programs Coordinator, Native Plant Trust

Fee: \$45 (Members)/\$54 (Nonmembers)

Certificate: Field: Basic and Advanced, Botany

# Field Studies

## Wetland Plants

Spend an afternoon exploring wetland habitats, some of the most botanically diverse and biologically productive landscapes in New England. We will learn about numerous plants that have adapted to the floodplains, beaver meadows, marshes, and forested seeps of central Vermont.

Friday, May 20, 2022, 11 a.m.-2 p.m.

North Branch Nature Center, Montpelier, VT

Program Code: BOT3360

Instructor: Aaron Marcus, Assistant Botanist,  
Vermont Fish & Wildlife Service

Fee: \$36 (Members)/\$45 (Nonmembers)

Certificate: Field: Basic and Advanced, Botany

Cosponsor: North Branch Nature Center

## Botany in the Salt Marsh

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

Saturday, June 25, 2022, 1-3 p.m.

Barnstable Great Marsh Wildlife Sanctuary,  
Barnstable, MA

Program Code: FDT8041

Instructor: Michael Piantedosi, Director of  
Conservation, Native Plant Trust

Fee: \$30 (Members)/\$36 (Nonmembers)

Certificate: Field: Basic and Advanced, Botany

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## Floodplain Forests

Floodplains have special plants that are adapted to inundation and fluctuating water levels. Join an easy walk to observe the vegetation of a typical small-river floodplain with nearly half a mile of shoreline accessible to the Sudbury River. This stretch of the river is federally designated as a wild and scenic river and has beautiful stands of silver maple (*Acer saccharinum*), basswood (*Tilia americana*), swamp white oak (*Quercus bicolor*), red maple (*Acer rubrum*), and shrub swamps of buttonbush (*Cephalanthus occidentalis*.)

Saturday, June 18, 2022, 1-3 p.m.

Greenways Conservation Area, Wayland, MA

Program Code: FDT8061

Instructor: Neela de Zoysa, botanist

Fee: \$30 (Members)/\$36 (Nonmembers)

Certificate: Field: Basic and Advanced, Botany

01



## Coonamessett Bog

After decades of human modification, restoration of a river to its natural flow and fish passage is a complex process. Along the Coonamessett River, we will appreciate the 2.2 miles of free-flowing streams, witness the improved access for herring to spawning habitat at Coonamessett Pond, and discuss the restoration of 56 acres of former cranberry bogs to natural wetlands using seeds collected by Native Plant Trust. Join us as we revel in the flora of Coonamessett Lower Bog and study the process of using native plant seeds to restore wildlife habitat.

Sunday, July 31, 2022, 10 a.m.-12 p.m.

Falmouth, MA

Program Code: FDT8056

Instructor: Michael Piantedosi, Director of Conservation, Native Plant Trust

Fee: \$30 (Members)/\$36 (Nonmembers)

Certificate: Field: Basic and Advanced, Botany



02

03



## Aroostook River Shoreline

The Aroostook River in northern Maine is home to a unique assemblage of plants that are adapted to living on ice-scoured shorelines with underlying high-pH bedrock. More accessible than the similar St. John River farther north, the Aroostook River provides opportunities to learn about the Laurentian river shores and observe a wide array of plants of regional conservation concern. Join Native Plant Trust's Senior Research Botanist Arthur Haines on a day-long field study to explore and revel in the botany of the north.

Sunday, July 31, 2022, 11 a.m.-5 p.m.

Wade, ME

Program Code: FDT9014

Instructor: Arthur Haines, Senior Research Botanist, Native Plant Trust and author of *Flora Novae Angliae*

Fee: \$72 (Members)/\$90 (Nonmembers)

Certificate: Field: Basic and Advanced, Botany

# Field Studies

## Botany of the New Hampshire Coastline

Great Bay National Wildlife Refuge is located along the eastern shore of New Hampshire's Great Bay in the town of Newington. The refuge protects more than 1,000 acres along the seacoast for migratory birds and other wildlife. One of the longest stretches of undeveloped shoreline along the bay, it consists of mud flats, salt- and freshwater marshes, swamps, ponds, streams, woodlands, and fields. Join Director of Conservation Michael Piantedosi as we explore this diverse refuge and learn about its dynamic flora.

Saturday, September 17, 2022, 10 a.m.-12:30 p.m.

Great Bay National Wildlife Refuge, Newington, NH

Program Code: FDT8045

Instructor: Michael Piantedosi, Director of Conservation, Native Plant Trust

Fee: \$38 (Members)/\$45 (Nonmembers)

Certificate: Field: Basic and Advanced, Botany

## Great Marsh

Salt marshes exist at the boundary of land and sea. The plants that inhabit the marsh must be able to tolerate being periodically inundated with salt water, which is fatal to most other plants. Marsh plants, which have adapted to these stressful conditions, are incredibly productive and unique.

Join us in an exploration of the largest salt marsh in New England. This easy, muddy hike will feature salt marsh plants such as cordgrass (*Spartina*), arrowgrass (*Triglochin*), fleabane (*Pluchea*), seepweed (*Suaeda*), and sea asparagus (*Salicornia*).

Sunday, September 18, 2022, 10:30 a.m.-12:30 p.m.

Rowley, MA

Program Code: FDT8060

Instructor: Dr. Robert Buchsbaum, conservation scientist

Fee: \$30 (Members)/\$36 (Nonmembers)

Certificate: Field: Basic and Advanced, Botany



04

Royal fern  
(*Osmunda regalis* var. *spectabilis*)  
© Native Plant Trust



# Certificate Program

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 learn to identify, cultivate, and conserve native New England plants while gaining a greater appreciation for their ecological importance. Students also actively participate in ongoing public and private efforts to preserve and restore native New England flora.

Enrollment in the Certificate Program is not required to register for a certificate core course. However, please be aware that courses are designed for the level of certificate students.



01

The Basic Certificate track familiarizes students with the plants of New England, emphasizing structures, skills, and processes. We highly recommend beginning with the Foundations courses, which introduce students to native plant vocabulary, morphology, physiology, ecological context, evolution, and relationships. This knowledge is applied to subsequent courses.

All Basic Certificate core courses are now offered every semester, both in person and virtually.

## Foundations:

Plant Form and Function  
Plant Ecology  
Plant Families

## Plants and Their Habitats:

Wildflowers of New England  
Native New England Shrubs  
Framework Trees of New England

## Specialty:

Understanding and Managing Soils  
Two Electives (one Botany, one Horticulture)

## Application:

Two Studies (one Field, one Landscape)  
Community Service: 15 hours  
Final Portfolio

The Advanced Certificate tracks encourage students to apply their plant knowledge in a Botany & Conservation specialty or a Horticulture & Design specialty. To enter an Advanced track, students must complete the Basic Certificate or have enough experience to qualify for a Basic Certificate. We recommend beginning with the Foundations courses, which provide context for the field or landscape application. All Advanced core courses are offered every year.

Advanced Botany & Conservation:

### **Foundations:**

Conservation Biology  
New England Plant Communities  
Plant Systematics

### **Field Conservation:**

Field Identification Techniques  
Botanical Inventory Methods and Techniques  
Wetland Identification and Delineation  
Seed Conservation

### **Specialty:**

Invasive Plants: Identification, Documentation, and Control  
Two Botany Electives

### **Application:**

Two Field Studies  
Community Service Leadership Project:  
25 hours  
Final Portfolio

02



Advanced Horticulture & Design

### **Foundations:**

Landscape for Life  
History and Principles of Landscape Design  
Horticultural Techniques

### **Building Your Plant Palette:**

Residential Landscape Design  
Native Herbaceous Plant Materials:  
Early Season  
Native Herbaceous Plant Materials:  
Late Season  
Native Woody Plant Materials

### **Specialty:**

Propagation  
Two Horticulture Electives

### **Application:**

Two Landscape Studies  
Community Service Leadership Project:  
25 hours  
Final Portfolio

# Certificate Courses

## Basic Core

### Plant Form and Function

This introduction to botany covers the basics of plant anatomy and physiology and addresses the fundamentals of the plant kingdom. We will take a microscopic look at roots, stems, leaves, and their component tissues. We will also examine flowers, fruits, and seeds and discuss pollination, fertilization, dispersal, and germination, with an emphasis on the relationship between plant form and function. Offered exclusively online this semester.

Course access available from April 25, 2022 to September 12, 2022

This Basic Certificate online core course is self-paced, with opportunities for peer discussion, expert access for questions, and field projects.

Program Code: CERO100

Fee: \$150 (Members)/\$200 (Nonmembers)

Certificate: Basic Core



03

### Plant Ecology

This overview of plant ecology addresses the distribution and abundance of plants and their interactions with other organisms and the physical environment. We will explore factors that affect plants as individuals, populations, and communities. Such factors include life history, resource use, competition, and animal-plant interactions (e.g., pollination, dispersal, herbivory).

Option 1: In Person

Saturdays, June 4, 11, 2022, and  
Sundays, June 5, 12, 2022, 10:30 a.m.-1:30 p.m.

Garden in the Woods, Framingham, MA

Program Code: BOT1003

Instructor: Jennifer McCarthy, Division Chief (emerita), U.S. Army Corps of Engineers, New England District

Fee: \$216 (Members)/\$264 (Nonmembers)

Certificate: Basic Core

Option 2: Online, self-paced

Course access available from April 25, 2022 to September 12, 2022

This Basic Certificate online core course is self-paced, with opportunities for peer discussion, expert access for questions, and field projects.

Program Code: CERO101

Fee: \$150 (Members)/\$200 (Nonmembers)

Certificate: Basic Core

## Plant Families

What are the underlying evolutionary relationships and patterns in plants? In this class, we use both microscopic and field investigation to decipher the clues to familial relationships and classifications of the region's plants. You will learn botanical terms to describe plants and flowers, the evolutionary/phylogenetic basis for classification, and the identifying characteristics for several major plant families common to New England.

### Option 1: In Person

Thursdays, June 16, 23, 30, 2022, 12:30-4:30 p.m.

Garden in the Woods, Framingham, MA

Program Code: BOT2260

Instructor: Neela de Zoysa, botanist

Fee: \$216 (Members)/\$264 (Nonmembers)

Certificate: Basic Core

### Option 2: Online, self-paced

Course access available from April 25, 2022 to September 12, 2022

This Basic Certificate online core course is self-paced; a facilitator will guide you in your learning, review your assignments, and answer your questions.

Program Code: CERO102

Fee: \$150 (Members)/\$200 (Nonmembers)

Certificate: Basic Core

## Wildflowers of New England

This course provides a comprehensive introduction to native plants, including their identification, ecology, and conservation. We explore New England's native plants in a field setting at Garden in the Woods by studying key identification features of flowers, leaves, and stems; family characteristics; growth patterns; pollinators; seed dispersers; and habitats. You will learn basic botanical skills and tools to identify wildflowers and study pollination and the coevolution of flower structure and design, habitats and ecology, and conservation concerns.

### Option 1: In Person

Wednesdays, May 4, 11, 18, 25, 2022, 12:30-3:30 p.m.

Garden in the Woods, Framingham, MA

Program Code: BOT3000

### Option 2: Live Virtual

Thursdays, May 5, 12, 19, 26, 2022, 6-9 p.m.

Program Code: BOT3000

Instructor: Neela de Zoysa, botanist

Fee: \$216 (Members)/\$264 (Nonmembers)

Certificate: Basic Core

04



## Basic Core

### Native New England Shrubs

Shrubs vary widely in size, shape, color, bark, flower, and fruit. This course introduces you to many of the native New England shrub species that can be found at Garden in the Woods and throughout the local ecoregion. We will focus on plant identification tools and techniques, family characteristics, and cultural plant uses. The learner-centered approach will include field assignments and peer discussion.

#### Option 1: In Person

Friday, June 24, 2022, 9:30 a.m.-3:30 p.m.

Garden in the Woods, Framingham, MA

Program Code: BOT3300

Instructor: Brian Colleran, conservation biologist

Fee: \$108 (Members)/\$132 (Nonmembers)

Certificate: Basic Core

#### Option 2: Live Virtual

Thursdays, July 14, 21, 28, 2022, 6:30-8:30 p.m.

Program Code: BOT3300

Instructor: Brian Colleran, conservation biologist

Fee: \$108 (Members)/\$132 (Nonmembers)

Certificate: Basic Core

### Framework Trees

Forests are a dominant feature of the New England landscape. This course covers the history, changes in composition, and ecology of the region's forest from the Ice Age through European settlement. We explore the impact of past natural and human disturbances on the landscape and learn how current forestry practices shape forest communities. You will learn to identify native trees, their habitats, and their communities.

#### Option 1: In Person

Saturday, July 9 and Sunday, July 10, 2022, 10 a.m.-4 p.m.

Nasami Farm, Whately, MA, and field sites

Program Code: BOT3200

Instructor: Yoni Glogower, Director of Conservation and Sustainability, City of Holyoke

Fee: \$216 (Members)/\$264 (Nonmembers)

Certificate: Basic Core

#### Option 2: Live Virtual

Tuesdays, May 17, 24, 2022, 5:30-8:30 p.m. and Saturdays, May 21, 28, 2022, 9 a.m.-12 p.m.

Program Code: BOT3200

Instructor: Yoni Glogower, Director of Conservation and Sustainability, City of Holyoke

Fee: \$216 (Members)/\$264 (Nonmembers)

Certificate: Basic Core

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## Understanding and Managing Soils

This course explores the biotic and abiotic components that create native soils and explains how these factors inform local flora. We will take a closer look at soil structure and soil biology in miniature lab experiments.

#### Option 1: In Person

Friday, September 16, 2022, 10 a.m.-4 p.m.

Nasami Farm, Whately, MA

Program Code: HOR3604

Instructor: Alexis Doshas, Nursery Manager, Native Plant Trust

Fee: \$108 (Members)/\$132 (Nonmembers)

Certificate: Basic Core

#### Option 2: Live Virtual

Thursdays, August 4, 11, 2022, 6-9 p.m.

Program Code: HOR3604

Instructor: Alexis Doshas, Nursery Manager, Native Plant Trust

Fee: \$108 (Members)/\$132 (Nonmembers)

Certificate: Basic Core

# Certificate Courses

## Advanced Core, Botany & Conservation

### New England Plant Communities

For a relatively small region, New England boasts an astonishing variety of plant communities, ranging from freshwater and tidal wetlands to coastal dunes, grasslands, forests, and mountains. We will study the dominant canopy, structure, range, and characteristic species of each community and then apply this knowledge in the field. You will learn how soil, topography, moisture, geological conditions, glaciation, and historical use affect the vegetation of each community.

Wednesdays, June 15, 22, 2022, 6-9 p.m. and  
Saturday, June 25, 2022, 10 a.m.-4 p.m.

Live Virtual and Western MA field sites

Program Code: BOT4000

Instructor: Dr. Lori Benoit, wetland scientist and  
environmental consultant

Fee: \$216 (Members)/\$264 (Nonmembers)

Certificate: Advanced Core, Botany

06



### Field Identification Techniques

Equip yourself with the skills and confidence you need to identify native plants in the field. We will learn how to use field guides and professional keys, observe floral structures, recognize reliable family characteristics, and become familiar with botanical Latin.

Wednesdays, July 13, 20, 27, 2022, 10:30 a.m.-2:30 p.m.

Garden in the Woods, Framingham, MA

Program Code: BOT2000

Instructor: TBA

Fee: \$216 (Members)/\$264 (Nonmembers)

Certificate: Advanced Core, Botany

05



## Advanced Core, Botany & Conservation

### Botanical Inventory Methods and Techniques

This course is an intensive training on botanical survey approaches and methods for cataloging the vascular plants in a natural landscape. We will cover the essential steps of planning the survey, including use of field guides, aerial photography, GIS (Geographic Information Systems) resources, sampling strategies, and field-data form design. Next, we will put the methods into practice by conducting a field survey on conserved land, identifying and recording the plant species and habitats we encounter, and compiling an inventory and accompanying report.

Thursday, September 29, 2022, 6:30-8:30 p.m. and  
Saturday, October 1, 2022, 10:30 a.m.-2:30 p.m.

Live Virtual and Garden in the Woods,  
Framingham, MA

Program Code: BOT2050

Instructor: Neela de Zoysa, botanist

Fee: \$108 (Members)/\$132 (Nonmembers)

Certificate: Advanced Core, Botany



07

### Wetland Identification and Delineation

This course introduces the principal elements of wetland identification, including wetland hydrology, hydric soils, and hydrophytic plants. We will identify plants in the field, place a delineation line, and utilize web resources.

Friday, April 29, 2022, 10:30 a.m.-4:30 p.m.

Garden in the Woods, Framingham, MA

Program Code: WET2010

Instructor: Dr. William Kuriger, botanist

Fee: \$108 (Members)/\$132 (Nonmembers)

Certificate: Advanced Core, Botany

### Invasive Plants: Identification, Documentation, and Control

This course addresses the identification and control of many of the invasive plant species that are an unwelcome and persistent presence in forests, fields, and wetlands. Through visual presentation, close examination of herbarium specimens, and field study, we will examine the impacts of several invasive species and discuss methods for managing invasive plant populations.

Thursday, September 22, 2022, 6:30-8:30 p.m. and  
Saturday, September 24, 2022, 10:30 a.m.-2:30 p.m.

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

Program Code: BOT5130

Instructor: Bud Sechler, Ecological Programs  
Coordinator, Native Plant Trust

Fee: \$108 (Members)/\$132 (Nonmembers)

Certificate: Advanced Core, Botany

# Certificate Courses

## Advanced Core, Horticulture & Design

### 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. We will discuss how to select the right plant for the right place and how to plant and care for native plants. You will learn proper techniques for transplanting, preparing soil, mulching, watering, and pruning as well as maintaining, winterizing, and preparing the garden for the next growing season.

Fridays, September 23, 30, 2022, 1-3 p.m.

Garden in the Woods, Framingham, MA

Program Code: HOR3600

Instructor: Horticultural staff, Native Plant Trust

Fee: \$72 (Members)/\$88 (Nonmembers)

Certificate: Advanced Core, Horticulture



08

09



### Native Herbaceous Plant Materials, Early Season

Over the course of the spring, we will examine a wide variety of native plants for gardens and discuss each plant's cultural and habitat needs as well as its importance to wildlife. The class will cover 90 species and include tips for growing them. You will learn to identify native plants in the New England gardening palette, become familiar with each plant's appropriate use, and identify each plant's role in the ecosystem in terms of attracting pollinators and other wildlife.

Mondays, April 25, May 9, 23, June 6, 2022,  
12:30-3 p.m.

Garden in the Woods, Framingham, MA

Program Code: HOR1000

Instructor: Ellen Sousa, garden designer, nursery operator, and author of *The Green Garden*

Fee: \$180 (Members)/\$220 (Nonmembers)

Certificate: Advanced Core, Horticulture

## Advanced Core, Botany & Conservation

### Native Herbaceous Plant Materials, Late Season

Over the course of mid- to late summer, we will examine a wide variety of native plants for gardens and discuss each plant's cultural and habitat needs as well as its importance to wildlife. We will address and provide tips for growing 80 species. You will become familiar with each plant's appropriate use, and study each plant's role in the ecosystem in terms of attracting pollinators and other wildlife.

Mondays, July 25, August 29, 2022, 12:30-3 p.m.

Garden in the Woods, Framingham, MA

Program Code: HOR1050

Instructor: Ellen Sousa, garden designer, nursery operator, and author of *The Green Garden*

Fee: \$90 (Members)/\$110 (Nonmembers)

Certificate: Advanced Core, Horticulture



10

11



### Native Woody Plant Materials

Explore the huge variety of native trees, shrubs, and woody vines. You will learn which species grow well in shade, which support local wildlife, and how to stagger plantings for continual bloom, fruit production, and fall color. The course addresses growth characteristics, cultural requirements, and best horticultural uses.

Thursdays, August 18, 25, 2022, 1-4 p.m.

Garden in the Woods, Framingham, MA

Program Code: HOR1100

Instructor: Trevor Smith, Lead Designer, Land Escapes

Fee: \$108 (Members)/\$132 (Nonmembers)

Certificate: Advanced Core, Horticulture



Kinnikinnick (*Arctostaphylos uva-ursi*)  
William Cullina © Native Plant Trust

# Horticulture & Design

## Site Preparation for Landscape Transformation

Many people consider reducing lawns, converting hayfields, cleaning out weed patches, and otherwise transforming landscapes into pollinator gardens or meadows with native plants. Site preparation is critical, but it is often overlooked in the quest for a finished appearance. This primer covers planning, timelines, and online sources of site information. You will also learn some tips on how to do critical chores, including weed removal.

Saturday, April 9, 2022, 9:30 a.m.-12:30 p.m.

Nasami Farm, Whately, MA

Program Code: HOR8028

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

Fee: \$45 (Members)/\$54 (Nonmembers)

Certificate: Elective: Basic and Advanced, Horticulture

02



## Tips and Techniques for Healthy Seedling Starts

Healthy plants and gardens begin with healthy seedlings; this class will teach you basic yet critical propagation techniques for successful seedling starts. We begin with a brief overview of propagation terminology and science and continue in the greenhouse with hands-on demonstrations and experience. Plan to get your hands dirty and leave with some healthy native seedling starts.

Saturday, April 23, 2022, 1-4 p.m.

Nasami Farm, Whately, MA

Program Code: HOR3132

Instructor: Alexis Doshas, Propagator and Facilities Coordinator, Nasami Farm, Native Plant Trust

Fee: \$45 (Members)/\$54 (Nonmembers)

Certificate: Elective: Basic and Advanced, Horticulture

01



## Cultivating Native Mosses

Join Jordane Wiseman, Horticulturist, for an engaging, hands-on workshop with mosses. We will identify some common native mosses through basic morphology and habitat. We will also discuss principles of naturalistic gardening, including moss as a groundcover, suitable planting companions, and cultivating plant communities. We will put the principles into hands-on practice with moss grooming, transplanting, and watering.

Sunday, May 1, 2022, 12:30-3:30 p.m.

Garden in the Woods, Framingham, MA

Program Code: HOR2041

Instructor: Jordane Wiseman, Horticulturist,  
Native Plant Trust

Fee: \$45 (Members)/\$54 (Nonmembers)

Certificate: Elective: Basic and Advanced,  
Horticulture

## Rewilding with Native Trees

Planting native trees is a critical step toward rewilding our landscapes and restoring biodiversity. This walk will familiarize you with the large, medium, and small trees at Garden in the Woods, their light and soil requirements, and their cascade of benefits. You will learn which trees offer four-season beauty and sustain local food webs, and how to match the right tree to the right place. The program will highlight examples from Wild Seed Project's guide, *Native Trees for Northeast Landscapes*, available at the Garden Shop.

Friday, May 6, 2022, 1-3 p.m.

Garden in the Woods, Framingham, MA

Program Code: HOR4221

Instructor: Anna Fialkoff, Program Manager,  
Wild Seed Project

Fee: \$30 (Members)/\$36 (Nonmembers)

Certificate: Elective: Basic and Advanced,  
Horticulture

Cosponsor: Wild Seed Project

03



# Horticulture & Design

## Writing in the Garden

Writers from Emily Dickinson to Edith Wharton and Eudora Welty have found their gardens to be wellsprings of sensory experience that stimulated their writing. In this two-hour workshop, visit the fields and designed gardens at Nasami Farm and write spontaneously in response to prompts—verbal or visual cues provided by the workshop leader—inspired by the surroundings.

Sunday, May 22, 2022, 10:30 a.m.-12:30 p.m.

Nasami Farm, Whately, MA

Program Code: ART2009

Instructor: Jane Roy Brown, Writer-Editor,  
Native Plant Trust

Fee: \$30 (Members)/\$36 (Nonmembers)



04

## Slow Gardening

Why wait until the last minute to plan and prepare your gardens? Save your back and knees from all that weed and turf removal by learning some passive, elegant, and simple techniques to let nature do the work for you. A little prep now will give you a fresh start next spring.

Friday, June 10, 2022, 10:30 a.m.-12:30 p.m.

Nasami Farm, Whately, MA

Program Code: HOR4045

Instructor: Alexis Doshas, Propagator and Facilities  
Coordinator, Nasami Farm, Native Plant Trust

Fee: \$30 (Members)/\$36 (Nonmembers)

Certificate: Elective: Basic and Advanced,  
Horticulture

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## Getting to Know Your Pests

Learn about the bugs in your garden using the greenhouses at Nasami Farm. In this introductory workshop, participants will learn about common garden and greenhouse pests as well as their natural and intentionally released predators. Following a brief presentation, we will take a tour of the Nasami greenhouses to scout for beneficial bugs and their prey.

Friday, August 5, 2022, 10:30 a.m.-12:30 p.m.

Nasami Farm, Whately, MA

Program Code: HOR2023

Instructor: Miho Connolly, Nursery Coordinator,  
Native Plant Trust

Fee: \$30 (Members)/\$36 (Nonmembers)

Certificate: Elective: Basic and Advanced,  
Horticulture



Common blackberry  
(*Rubus allegheniensis*)  
Dan Jaffe © Native Plant Trust

## Native Plants for Native Birds

Explore diverse habitats in southern Connecticut and learn to identify plants and the birds that depend on them. Through classroom discussion and field application, we will address ways to create landscapes with both aesthetic and ecological value to attract wildlife. The session focuses on flowers, shrubs, and trees as nectar and insect sources for birds.

Wednesday, September 28, 2022, 9:30 a.m.-1 p.m.

New Canaan Nature Center, New Canaan, CT

Program Code: HOR4243

Instructor: Frank Gallo, Senior Naturalist, New Canaan Nature Center

Fee: \$53 (Members)/\$63 (Nonmembers)

Certificate: Elective: Basic and Advanced, Horticulture

Cosponsor: New Canaan Nature Center

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## Meadows 1-2-3

Learn how native plant meadow-making differs from other forms of horticulture. We will discuss site selection, community and social factors, site preparation, plant selection, planting, and what to expect in years 1, 2, and 3. This program is appropriate for all learning levels, and extensive resource material is provided.

Saturday, October 8, 2022, 10 a.m.-4 p.m.

Nasami Farm, Whately, MA

Program Code: HOR8001

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

Fee: \$90 (Members)/\$108 (Nonmembers)

Certificate: Elective: Basic and Advanced, Horticulture

# Landscape Studies

## Native Coastal Garden

Join us for a tour of a scenic coastal wildlife refuge. Tucked into a lot on Bullocks Cove, this sand-dune-edged garden slopes to a beach and a native buffer replete with cordgrass (*Spartina*) and high-tide bush (*Iva frutescens*). The property features a roof garden with eastern prickly-pear (*Opuntia humifusa*), a rain garden that supports swamp azalea (*Rhododendron viscosum*), and a fishpond that creates privacy for a terrace below. The garden is a haven for people, birds, and insects.

Saturday, May 21, 2022, 10:30 a.m.-12 p.m.

East Providence, RI

Program Code: HDT7005

Instructor: Sally Johnson, Principal, Ecoastal Design

Fee: \$23 (Members)/\$27 (Nonmembers)

Certificate: Landscape: Basic and Advanced,  
Horticulture



01

02



## Restoring the Native Gardens of Oyster Shell Park

In 2006, Norwalk's waste yard was transformed into a 15-acre riverside native plant garden and became a prototype for community gathering space along the East Coast. After a strong debut, the garden endured several years of deferred maintenance. The restoration of native plants in Oyster Shell Park began in 2018 and continues today with the support of community collaborations. We will walk through the garden and explore native plant highlights while discussing the master plan and planting design, plant list, efforts to remove invasive plants and encourage pollinators, and ongoing relationships that make Oyster Shell Park thrive.

Thursday, June 9, 2022, 10:30 a.m.-12:00 p.m.

Norwalk, CT

Program Code: HDT7006

Instructor: Nancy McClelland, Principal, The Perennial Gardener

Fee: \$23 (Members)/\$27 (Nonmembers)

Certificate: Landscape: Basic and Advanced,  
Horticulture

## UMass Amherst Designs

Join us for a tour of the award-winning UMass Amherst's Southwest Concourse revitalization project led by its landscape architects. STIMSON doubled the percentage of green space on this high-visibility five-acre site, placing an emphasis on the region's native plants. Learn about the site's form, scale, influences, and prioritization of previous surfaces and stormwater gardens. This landscape study also includes the Interdisciplinary Design Building and Crotty Hall.

Friday, July 15, 2022, 1-4 p.m.

Amherst, MA

Program Code: HDT9001

Instructor: Lauren Stimson, Principal and Partner, STIMSON

Fee: \$45 (Members)/\$54 (Nonmembers)

Certificate: Landscape: Basic and Advanced, Horticulture

Cosponsor: Boston Society of Landscape Architects

## Collective Gardening in Burlington

Join us to learn about the collective gardening model at Tommy Thompson Community Garden. This landscape study addresses structures and processes for collective gardening and the background of this particular site. We will explore the annual, perennial, and native plants represented, their uses, and the pollinators they attract.

Saturday, August 20, 2022, 10:30 a.m.-12:30 p.m.

Burlington, VT

Program Code: HDT6001

Instructor: Carolina Lukac, Garden Education Manager, Vermont Community Garden Network

Fee: \$24 (Members)/\$30 (Nonmembers)

Certificate: Landscape: Basic and Advanced, Horticulture

Cosponsor: Vermont Community Garden Network

03



# Landscape Studies

## **New Takes on Historic Landscapes: Bedrock Gardens**

Bedrock Gardens is a classic New England farm reimagined as an emerging botanical garden. The landscapes recently transitioned from a 37-acre private sculpture garden and plant collectors' paradise to a public oasis of artistic horticulture. Reclamation of meadow, pasture, woodland, and wetland offer innovative examples of adaptive reuse and opportunities to create a layered landscape journey. Each of the varied garden rooms melds the enduring fabric of a historic farmstead with native plants and rare botanicals. This landscape study will inspire you to combine landscape history and ecology when creating your own unique gardens.

Sunday, August 21, 2022, 2-4 p.m.

Lee, NH

Program Code: HDT5011

Instructor: John Forti, Founding Director, Bedrock Gardens and author of *The Heirloom Gardener*

Fee: \$30 (Members)/\$36 (Nonmembers)

Certificate: Landscape: Basic and Advanced, Horticulture

Cosponsor: Bedrock Gardens

## **Roger Williams Park: Stormwater Sites and Ecosystem Approaches**

Join us for a walking tour of Roger Williams Park to learn the stormwater mitigation strategies in Providence Stormwater Innovations Center's stormwater playground. From bioswales to permeable pavers, most strategies include plant material. Plant selection and maintenance are a critical part of efficient stormwater management. The Park's maintenance practices focus on an ecosystems approach that assures proper functioning of stormwater sites while also allowing for ecosystem services. This landscape study will demonstrate how these practices can be translated to community gardens and backyards.

Thursday, September 15, 2022, 10:30 a.m.-12 p.m.

Providence, RI

Program Code: HDT8055

Instructor: Lee Ann Freitas, Botanical Center Director, Roger Williams Park

Fee: \$23 (Members)/\$27 (Nonmembers)

Certificate: Landscape: Basic and Advanced, Horticulture

04



## Urban Wilds: Roslindale

Join landscape architects from award-winning Crowley Cottrell, LLC for a landscape study of the recent improvements to the Roslindale Wetlands Urban Wild. Over the past two years, Crowley Cottrell has worked with the Boston Parks and Recreation Department to design and administer habitat restoration and new trail work. The project aims to improve visitor experience through a completed loop trail and renovated entrances and to support native habitat through invasive species management and selective earthwork. Learn about partnering with municipalities on capital improvement projects to support the long-term investment and management of the land by the city and community members.

Sunday, September 25, 2022, 10:30 a.m.-12 p.m.

Roslindale, Boston, MA

Program Code: HDT9003

Instructor: Michelle Crowley, Principal Landscape Architect, and Anna Curtis-Heald, Landscape Architect, Crowley Cottrell LLC

Fee: \$23 (Members)/\$27 (Nonmembers)

Certificate: Landscape: Basic and Advanced, Horticulture

## Plant Play

Engage your little ones with plants through nature-inspired stories, songs, and crafts. Stories are for children ages three to eight, but all ages are welcome. If the program cannot be conducted in person for public health reasons, it will be conducted virtually.

Saturdays, April 23, 30, May 21, June 11, 25, July 9, 23, August 6, 20, September 10, 2022, 10:30-11:30 a.m.

Garden in the Woods, Framingham, MA

Program Code:

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

Fee: Free of charge with Garden admission



05

# Registration

Please visit [NativePlantTrust.org/education](https://NativePlantTrust.org/education) to register for our programs. Visa and MasterCard accepted. For questions regarding registration, email [education@NativePlantTrust.org](mailto:education@NativePlantTrust.org).

**ADVANCE REGISTRATION** is required for all fee-based programs and is accepted on a first come, first-served basis upon full payment. Early registration is encouraged; programs with insufficient registration may be cancelled five business days before the scheduled start date. If your requested program is filled, please add yourself to the waiting list; if space becomes available, you will be contacted according to your position on the waiting list. No refunds or transfers can be given for withdrawals within a week of the program start date, or for class sessions you have not attended, except for COVID-19 related reasons. We believe education is interactive, with instructors and students building a community and culture of learning. For this reason, we do not provide virtual program recordings.

**EQUAL ACCESS** If you need assistance or special accommodations, email [education@NativePlantTrust.org](mailto:education@NativePlantTrust.org) or call (508) 877-7630 x3303, at the time you register or as soon as possible thereafter.

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## Membership

For a full description of member benefits, please visit our website or call (508) 877-7630 x3104

[NativePlantTrust.org/support](https://NativePlantTrust.org/support)

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:

- \* Discounts on educational programs throughout New England
- \* Annual subscription to Native Plant Trust publications
- \* Monthly member e-newsletter
- \* Discounts at a wide range of regional and mail-order nurseries through our Nursery Connections Program and our Garden Shops
- \* Access to member-only on-demand webinars
- \* Invitations to special members' only events

### MEMBERSHIP LEVELS:

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

# Donate

This year, you and fellow plant lovers across the country have gone outdoors and online to learn about plants. Today you have a wonderful opportunity to show your appreciation for the native plants that bring you peace and joy—and for the programs that help you identify, protect, and grow them.

With the record-breaking demand for our classes, we need your support to continue providing new content in accessible formats. Participant fees do not cover the costs of developing and delivering innovative programs. We need your help to keep more than 200 educational experiences available and affordable to everyone this year.

## **DONATE ONLINE**

[www.NativePlantTrust.org/fundprograms](http://www.NativePlantTrust.org/fundprograms)

## **DONATE BY MAIL**

Use the envelope provided in this catalog

## **DONATE BY PHONE**

508-877-7630 x3802

# BRING THE GREEN DREAM TO LIFE

More than ever before, people are turning to Native Plant Trust to learn about the natural world. Your generosity will help provide botany and horticulture programs that inspire thousands of people and benefit our planet.

[www.NativePlantTrust.org/fundprograms](http://www.NativePlantTrust.org/fundprograms)

## Native Plant Trust

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