

NYBG

ADULT EDUCATION | FALL 2020–WINTER 2021



October 2020

Welcome to our catalog, which we hope finds you managing your way through this challenging year, where the whole world has had to reimagine what we mean by work, home, and learning.

Back in mid-March, when the Garden temporarily closed, Adult Education was able to adapt quickly to remote learning, with our incredible instructors offering some 200 online classes.

Over these many months, we've seen people looking to embrace nature as never before. They are seeking out that class in botanical drawing or vegetable gardening or flower arranging they've always wanted to take. And they're realizing that, even online, it's possible to stay connected in meaningful ways.

We're so grateful to you—our community of gardeners, designers, artists, naturalists, and crafters—for supporting us and giving the feedback that's helped us strengthen our online efforts and get better every day.

This fall we're building on what we've learned—to help you make progress towards your Certificate, or begin a new journey of discovery. So—as always—you'll find enriching courses in many disciplines; you'll develop new skills and credentials, and meet amazing instructors.

Nearly all NYBG classes will be fully online. But in our Horticulture, Botany, and Urban Naturalist programs that require hands-on, outdoor learning, we're offering blended classes that meet partly online and partly on Garden grounds.

We're also continuing our signature lecture series with important, inspiring speakers—from the great landscape and public artist Walter Hood, to psychotherapist-gardener Sue Stuart-Smith, whose remarkable new book, *The Well-Gardened Mind*, reminds us that the garden can “buffer us when the going gets tough.”

That same hopeful feeling is woven throughout our NYBG Adult Ed community. We look forward to welcoming you all back in person as soon as possible. But meanwhile, we're so glad we can continue the work of learning and growing together virtually.

Take care—and we'll see you in class!

Registration is now open. Please visit nybg.org/adulted or call 718.817.8747.

Please don't wait too long to register! Many classes fill up quickly. When classes sell out, we do try to open additional sections, so kindly add your name to the wait list and help us determine interest. You'll receive notice of priority registration when new classes are added. And keep an eye out for Adult Ed e-newsletters with updates on new classes, sections, and speakers.

Prices listed are Member/Non-Member. Not a Member yet? Call 718.817.8703.



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“I have taken class from some of the best, and these online classes at NYBG have really been a cut above. My goodness what a bright, beautiful spot in a troubled world. Thank you for making such a difference in my life!”

— SUSAN BARTOW, Current Student

ABOUT THE COVER: *Shishigatani kabocha*, Akiko Enokido Official Entry

The Fourth NYBG Triennial
Abundant Future: Cultivating Diversity in Garden, Farm, and Field

This rare and historic heirloom Japanese pumpkin dates from the Edo period, and is highly valued in Kyoto cuisine. The image—along with other artwork seen throughout the catalog—is featured in this year’s virtual botanical art exhibition, which showcases heirloom plants and their wild relatives, and highlights their critical role in increasing and preserving genetic diversity.

It’s also a reminder that pumpkins take center stage at NYBG this October. Come see our vast display of gorgeous *cucurbits*—including some of the world’s largest and most spectacular!

22nd Annual Landscape Design Portfolios Lecture Series

LANDSCAPES ON THE EDGE

Three gifted landscape architects push the boundaries of invention with designs for urban waterfront parks that exhibit an extraordinary confluence of art, science, nature, and narrative.

October 5, October 19, October 29,
6:30–7:30 pm | Online

THOMAS BALSLEY, FASLA

Courtesy of SWA/Balsley



Hunter's Point South Park and Beyond: A New Paradigm for Resilient Waterfronts

Tom Balsley is a world-renowned landscape architect whose

NYC-based studio, SWA/Balsley, is best known for its fusion of landscape and urbanism into award-winning parks and waterfronts, often found in the margins and post-industrial edges of cities. Sparking the public's imagination, he has reshaped urban public realms throughout the world with robust and sustainable civic spaces that team with public life and are the source of a warm community embrace. Balsley has created over 100 such spaces in NYC alone, including the highly acclaimed Hunter's Point South Park, dual winner of ASLA's Honor Award in 2014 and 2019. His presentation will feature this extraordinary new park which has emerged as a global model for resilient waterfronts that is both urban and other-worldly. Others include Gantry Plaza State Park, Chelsea Waterside Park, Main Street Garden Park, Paveletskaya Park in Moscow, and Nelson Mandela Park in Rotterdam.

A noted speaker, he has taught and lectured at Harvard GSD and Penn Design. His work earned him ASLA's prestigious National Design Medal and a monograph "Thomas Balsley Uncommon Ground" found in MoMA.

October 5 | 212LAN801BO



GINA FORD, FASLA

©Sahar Coston-Hardy



Design as an Act of Optimism: 21st-Century Landscapes

Gina Ford is the co-founder and principal of Agency Landscape + Planning, in Cambridge, MA, a practice dedicated to addressing social

equity, cultural vitality and environmental resilience through design excellence, strategic planning and community engagement. A recipient of the Harvard Graduate School of Design's Charles Eliot Traveling Fellowship, Ford is personally committed to the design of public places, and her many honors include awards from the American Society of Landscape Architects, the American Planning Association, and the American Institute of Architects. She will focus on Chicago's *Riverwalk*, for which she was the lead designer of the Sasaki team while a principal at that firm. For this project, new land was added along the Chicago River to create a continuously connected, public space that includes aquatic habitats, boating wetlands and fishing piers. An award-winning project, *Riverwalk* transformed an iconic part of downtown Chicago.

Gina Ford will be in conversation with Agency principal, urban planner Brie Hensold, and they also will discuss new projects in Sarasota, Florida; Indianapolis' White River; and Boston's Lawn on D.

October 19 | 212LAN801CO



©Christian Phillips

WALTER HOOD



Landscape and Community: A Commemoration

As founder and creative director of Hood Design Studio in Oakland, California, Walter Hood makes urban spaces that resonate with and enrich the lives of current residents while also honoring

communal histories. As an artist and a landscape architect, he has transformed traffic islands, vacant lots, and freeway underpasses into spaces that challenge the legacy of neglect of urban neighborhoods. Recently, Hood has undertaken ambitious commemorative landscapes that reflect his interest in the role of sculpture in public space. For Charleston's International African American Museum, now under construction on the site at which nearly 40 percent of enslaved Africans arrived in this country, Hood has designed a memorial garden filled with native grasses, featuring a tidal pool whose waters will recede at regular intervals to reveal an engraved pattern of life-sized figures, aligned as though confined within the hold of a slave ship.

Widely published, and known internationally as a lecturer, Hood is a professor of landscape architecture at UC Berkeley. In 2019, he received both the Dorothy and Lillian Gish Prize and a MacArthur Fellowship.

October 29 | 212LAN801DO



Registration fee for each lecture: \$15/\$18. Register for the series and receive a discount: 212LAN801AO | \$39/\$49

SUSAN COHEN, FASLA, RLA, COORDINATOR OF THE LANDSCAPE DESIGN PROGRAM, ORGANIZED THIS SERIES.

SUPPORT GENEROUSLY PROVIDED BY THE HEIMBOLD FAMILY.



21st Annual Winter Lecture Series

GARDENS OF MEANING

This year's speakers approach the garden from non-traditional perspectives—healing, inclusiveness, and music—that add new layers to our notions of beautiful spaces and the gardening experience.

**3 Thursdays, January 28, February 25, March 25,
11 am–12 pm | Online**

SUE STUART-SMITH



The Well-Gardened Mind

Distinguished psychiatrist and avid gardener Sue Stuart-Smith believes our minds and our gardens interact in ways that can sustain our innermost selves. Her beautifully-written UK bestseller, *The Well-Gardened Mind*, offers inspiring

perspectives on the power of gardening to change people's lives.

For Stuart-Smith, a garden is much more than a beloved physical space. It is a mental space where you can hear your thoughts immersed in the primal awareness not only of nature's beauty, but the eternal cycle of the seasons. Informed by literature, neuroscience and her experiences as therapist and gardener, she celebrates the joys of gardening, but also the life-affirming benefits of tending plants—physical, psychological and metaphorical.

Before practicing as a psychiatrist and psychotherapist, **Sue Stuart-Smith** received her degree in English literature at Cambridge. Over the past 30 years, she has worked with her husband, leading UK garden designer Tom Stuart-Smith, on their wonderful Barn Garden in Hertfordshire.

January 28 | 213GAR801BO



LESLIE BENNETT



Gardens of Sanctuary

Founder and owner of Pine House Edible Gardens, Leslie Bennett designs, builds, and maintains edible and culturally resonant landscapes that are

beautiful and productive. The gardens she creates provide visual, physical, and cultural inspiration—along with nourishing organic harvests of food, flowers and medicinal herbs. With degrees from Harvard, Columbia Law School, and University College London in the fields of environmental law, cultural property, and social justice, Bennett brings a rare and important perspective to her landscape designs and her business practices. One effort of Pine House Edible Gardens is the Oakland, CA-based Black Sanctuary Gardens project, founded by Bennett in 2018, which actively works to create garden spaces of refuge and beauty in collaboration with Black women and communities.

Recently, **Leslie Bennett** received the American Horticultural Society's 2020 Great American Gardeners Landscape Design Award. She is co-author of *The Beautiful Edible Garden*, and has been featured in *Better Homes & Gardens*, *Martha Stewart Living*, and *Garden Design*. Joining Bennett in conversation will be Jennifer Jewell, creator and host of the award-winning public radio program and podcast *Cultivating Place*.

February 25 | 213GAR801CO



LARRY WEANER



Music Composition and Landscape Design: Harmony, Rhythm, & Time

For landscape designer and composer Larry Weaner, garden design and music composition have much in common.

While one may be visual and the other sonic, both look to explore freedom of expression within formal constraints. Both are endlessly engaging pursuits, where no matter how much you know...there is always more to discover. Working with plants—like playing jazz—is a give and take, a call and response, where every action stimulates a reaction—with sometimes unexpected consequences. Weaner believes that understanding the principles and techniques of composition can help designers create “musical” landscapes that can evoke powerfully direct emotional responses, reveal themselves gracefully over time and the seasons, and incorporate elements of improvisation.

Larry Weaner is a leading figure in North American landscape design and restoration. His award-winning work has been profiled in *The New York Times*, *Garden Design*, and *Landscape Architecture Magazine*, among other publications. His *Garden Revolution: How Our Landscapes Can Be a Source of Environmental Change* received the 2017 Book Award from the American Horticultural Society.

March 25 | 213GAR801DO



Registration fee for each lecture: \$15/\$18. Register for the series and receive a discount: 213GAR801AO | \$39/\$49 [CEUs](#)

FUNDED IN PART BY THE BARBARA CUSHING PALEY FUND.

Botanical Art & Illustration



Contemporary botanical art captures the beauty of the natural world with precision, and our extraordinary instructors share their expertise in this nurturing yet rigorous program. NYBG offered North America's first formal botanical art certificate program, and has remained a leader in the discipline for more than three decades. Whether you are looking for personal enrichment or a professional credential, the NYBG Certificate is a prestigious indicator of mastery and accomplishment.

THE CERTIFICATE PROGRAM

The Botanical Art & Illustration requirements provide a solid foundation in scientifically accurate drawing based on observation and fine art techniques in a variety of media. Those who achieve the highest level of accomplishment receive a Certificate in Botanical Art & Illustration with Honors, an indication of superior work. For full program details and requirements for graduation, please visit nybg.org/adulted.

CLASS MATERIAL: A materials list for every class is included in the course description on our website and in your confirmation email.

HOMEWORK: Homework will be assigned and it is expected that it will be completed in order to fully benefit from the class.

CERTIFICATE REQUIREMENTS

These core classes provide a strong, well-rounded foundation that prepares the student for higher-level classes. These classes can also be taken singly.

Course	Code	Hours	Page
Botanical Drawing I: Methods and Materials	BIL 301	18	5
Botanical Drawing II: Developing Your Skills	BIL 302	P 18	5
The Basics of Visual Composition (should be completed early)	BIL 421	P 18	7
Botanical Drawing III: Focus on Flowers	BIL 303	P 18	6
Plant Morphology for Botanical Artists	BIL 300	P 20	6
Botanical Watercolor I	BIL 331	P 24	6
Practical Aspects of Botanical Art	BIL 392	P 10	7
<i>Plus one of the following:</i>			
Internet Tools for Creatives, Part I: Social Media	BIL 394	5	6
Internet Tools for Creatives, Part II: Website	BIL 395	7	6
Pen and Ink	BIL 400	P 18	6
Colored Pencil	BIL 415	P 18	6
<i>Elective courses</i>		54	
TOTAL REQUIRED HOURS		221*	

ELECTIVES

Students seeking a Certificate may focus their electives on watercolor, colored pencil, drawing—or they may choose a natural science concentration. Elective courses build on foundation skills and allow the student to tailor their direction of study.

Course	Code	Hours	Page
Fall Harvest on Kraft Paper	BIL 455	P 15	7
Refined Graphite Rendering	BIL 370	P 15	7
Botanical Watercolor II	BIL 332	P 18	7
Scaling Up: Enlarging the Specimen	BIL 349	P 15	7
Hummingbirds	BIL 382	P 12	7
Drawing Mammals	BIL 358	P 15	7
Ink Wash Techniques	BIL 407	P 15	7

*Plus a final project that meets Certificate standards

P Courses with a prerequisite before you can register

**QUESTIONS? CONTACT PROGRAM COORDINATOR
ROBIN JESS AT BILCOORDINATOR@NYBG.ORG**

*The Tri-State Botanical Artists of NYBG*

TSBA is a lively group of over 90 artists who meet to engage in critiques, monthly art challenges, a sketchbook exchange, and topical discussions. We invite all current Certificate students and alumni to join us! TSBA is recognized as an ASBA Circle. Meetings are free and held once a month via Zoom until it is safe to meet again at NYBG. See p. 35 for more information.

Illustration: Acorns, TSBA traveling sketchbook, ©Katy Lyness, NYBG Instructor

BOTANICAL DRAWING FOR BEGINNERS

This intro class teaches you how to make realistic drawings of plants using a variety of techniques. Learn to draw a selection of plant parts, including branches, stems, leaves, and flowers. | \$229/\$249

4 Wednesdays, 10/14–11/4, 6–9 pm
Katy Lyness | Online | 212BIL145AO

4 Wednesdays, 11/11–12/9 (no class 11/25), 11 am–2 pm
Sarah Wry | Online | 212BIL145CO

4 Wednesdays, 2/3–2/24, 11 am–2 pm
Linda Nemerhut | Online | 213BIL145BO

BOTANICAL WATERCOLOR FOR BEGINNERS AND BEYOND

This class is designed for both inexperienced students and those who wish to improve their skills. Lectures and demonstrations are enhanced by individual instruction. Work at your own pace on a variety of pieces. | \$345/\$379

5 Mondays, 10/19–11/16, 10 am–2:30 pm
Laura Vogel | Online | 212BIL140DO

5 Sundays, 11/8–12/13 (no class 11/29), 10 am–2:30 pm
Laura Vogel | Online | 212BIL140BO

5 Mondays, 1/25–3/1 (no class 2/15), 10 am–2:30 pm
Laura Vogel | Online | 213BIL140CO

5 Saturdays, 2/20–3/20, 10 am–2:30 pm
Laura Vogel | Online | 213BIL140DO

5 Mondays, 3/8–4/5, 10 am–2:30 pm
Laura Vogel | Online | 213BIL140EO

BOTANICAL DRAWING I: METHODS AND MATERIALS

Accurate observation translates into sensitive, realistic drawings and is an essential skill for botanical artists. Using basic shapes, fruit, and leaves, learn contour drawing with an emphasis on proportion, and explore techniques such as foreshortening, perspective, and line weight. | \$435/\$479

Certificate Requirement

6 Tuesdays, 10/20–11/24, 6–9 pm
Linda Nemerhut | Online | 212BIL301CO

6 Wednesdays, 1/6–2/10, 6–9 pm
Katy Lyness | Online | 213BIL301AO

6 Thursdays, 1/14–2/18, 11 am–2 pm
Linda M. Nemerhut | Online | 213BIL301BO

BOTANICAL DRAWING II: DEVELOPING YOUR SKILLS

Learn to tone fruit, vegetables, leaves, and branches. Focus on concepts of light source, value, and shading to create form. Translate color into black and white, and create the illusion of depth and space in your work.

P *Botanical Drawing I* | \$435/\$479 *Certificate Requirement*

6 Fridays, 10/30–12/11 (no class 11/27), 11 am–2 pm
Laura Vogel | Online | 212BIL302AO

6 Tuesdays, 1/12–2/16, 6–9 pm
Rose Marie James | Online | 213BIL302BO

Weekend watercolor Online Workshops

Capture the beautiful colors and unique details of different botanical subjects. No previous drawing or painting experience is necessary.

NEW! ORNAMENTAL PUMPKINS

Sunday, 10/4, 10 am–3:30 pm
Sarah Wry | Online | 212BIL2290

NEW! CHINESE LANTERNS

Saturday, 10/17, 11 am–4:30 pm
Adele Rossetti | Online | 212BIL2570

FALL LEAVES

Sunday, 11/1, 10 am–3:30 pm
Laura Vogel | Online | 212BIL2030

NEW! PURPLE CONEFLOWERS

Saturday, 1/23, 11 am–4:30 pm
Adele Rossetti | Online | 213BIL2530

NEW! PINE CONES

Sunday, 2/7, 10 am–3:30 pm
Laura Vogel | Online | 213BIL2740

ORCHID FLOWERS

Sunday, 3/7, 10 am–3:30 pm
Laura Vogel | Online | 213BIL2250

Registration fee for each section:
\$95/\$105

Focus on *dry brush!*

NEW! GALA APPLES IN DRY BRUSH WATERCOLOR

Saturday, 11/21, 11 am–4:30 pm
Carrie Di Costanzo | Online | 212BIL2630

NEW! POMEGRANATES IN DRY BRUSH WATERCOLOR

Sunday, 1/10, 11 am–4:30 pm
Carrie Di Costanzo | Online | 213BIL2580

NEW! ACORN SQUASH IN DRY BRUSH WATERCOLOR

Saturday, 2/20, 11 am–4:30 pm
Carrie Di Costanzo | Online | 213BIL2420

Registration fee for each section:
\$125/\$135

6 Thursdays, 3/4–4/8 6–9 pm
Katy Lyness | Online | 213BIL302CO

BOTANICAL DRAWING III: FOCUS ON FLOWERS

Apply your understanding of contours, perspective, and tone to accurately draw three distinct, fully-toned flowering plants. Explore compositional possibilities, textures, and details. **B** *Botanical Drawing II* | \$435/\$479 *Certificate Requirement*

6 Fridays, 1/8–2/12, 11 am–2 pm
Rose Marie James | Online | 213BIL303AO

BOTANICAL WATERCOLOR I

This comprehensive class covers the basics. Learn how to use your brushes to make smooth, underlying washes, and create fine detail. Color theory teaches you how paints interact, and how to select the right colors for your subject. Paper selection, transferring preliminary drawings, and more round out this strong foundation.

B *Botanical Drawing II* | \$569/\$625 *Certificate Requirement*

8 Thursdays, 10/22–12/17 (no class 11/26),
10:30 am–1:30 pm
Laura Vogel | Online | 212BIL331CO

8 Mondays, 2/8–4/5 (no class 2/15), 11 am–2 pm
Rose Marie James | Online | 213BIL331AO

COLORED PENCIL

Colored pencil can be applied to look like either drawing or painting, making it a versatile medium for botanical art. Learn a variety of techniques including burnishing, tonal construction, and layering colors for different hues and densities. **B** *Botanical Drawing II* | \$435/\$479 *Certificate Requirement*

6 Saturdays, 10/17–11/21, 11 am–2 pm
Laura Vogel | Online | 212BIL415BO

6 Thursdays, 2/4–3/11, 6–9 pm
Jeanne Reiner | Online | 213BIL415AO

PEN AND INK

Pen and ink, so versatile and useful, can be used to create high-quality, easily reproducible drawings. Learn to produce different strokes and create tone by using stipple, line, and crosshatch techniques. **B** *Botanical Drawing II* | \$435/\$479 *Certificate Requirement*

6 Fridays, 10/16–11/20, 11 am–2 pm
Carol Ann Morley | Online | 212BIL400AO

6 Tuesdays, 1/12–2/16, 11 am–2 pm
Carol Ann Morley | Online | 213BIL400BO

INTERNET TOOLS FOR CREATIVES PART I: SOCIAL MEDIA

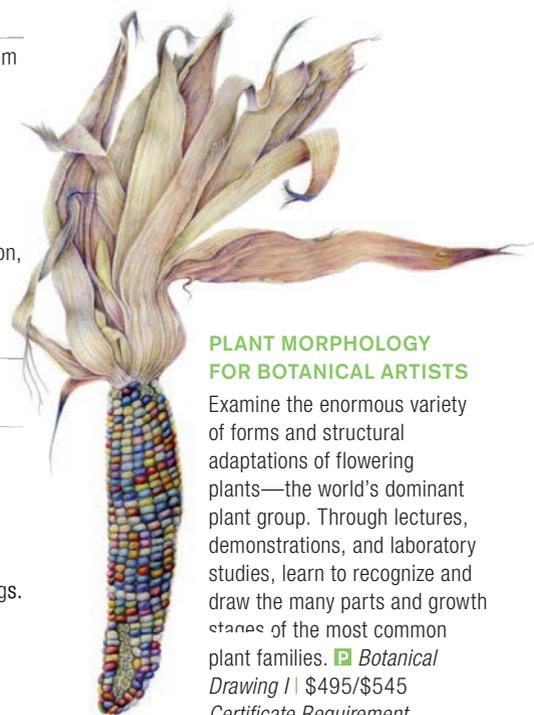
Learn to develop and implement a Facebook, Instagram, Twitter, and Pinterest strategy to showcase your work and attract and engage followers. A smartphone with aforementioned apps pre-installed is required. | \$115/\$129 *Certificate Requirement*

2 Sundays, 1/31 & 2/7, 11 am–1:30 pm
Candace Thompson | Online | 213BIL394O

INTERNET TOOLS FOR CREATIVES PART II: WEBSITE

A professional online presence is key to growing your business. In this hands-on class, you'll build a simple website (no coding required!) to showcase your portfolio using the free Wix.com platform and free online photo-editing tools. Internet proficiency necessary. | \$155/\$169 *Certificate Requirement*

3 Thursdays, 1/14–1/28, 5–7:20 pm
Candace Thompson | Online | 213BIL395O



PLANT MORPHOLOGY FOR BOTANICAL ARTISTS

Examine the enormous variety of forms and structural adaptations of flowering plants—the world's dominant plant group. Through lectures, demonstrations, and laboratory studies, learn to recognize and draw the many parts and growth stages of the most common plant families. **B** *Botanical Drawing I* | \$495/\$545 *Certificate Requirement*

8 Wednesdays, 10/7–12/9
(no class 11/11 & 11/25), 10 am–12:30 pm



Dick Rauh | Online | 212BIL300AO

8 Wednesdays, 2/3–3/24, 10 am–12:30 pm

Dick Rauh | Online | 213BIL300BO

THE BASICS OF VISUAL COMPOSITION

In a variety of exercises, we'll explore principles, including balance, focal points, and the rule of thirds, that give your composition maximum impact. Each week, you'll add to your personal composition notebook—an invaluable reference for the future. Your final drawing pulls together everything you've learned. This class is best taken early in your Certificate program. **■** *Botanical Drawing II* \$449/\$495 *Certificate Requirement*

4 Saturdays, 2/6, 2/20, 3/6 & 3/20, 10 am–3 pm
Betsy Rogers-Knox | Online | 213BIL421O

PRACTICAL ASPECTS OF BOTANICAL ART

These two sessions cover the basics: dealing with galleries and artists' reps, including pricing, contracts, and sales agreements; how/when to sell certain rights; how to market your work through promotional printing and making products; as well as licensing. How to prepare for entering an exhibition or developing your own one-person show will round out the concepts. **■** *Watercolor or Colored Pencil* | \$245/\$269 *Certificate Requirement*

4 Fridays, 2/19–3/12, 10:30 am–1 pm
Carol Woodin | Online | 213BIL392O

NEW! FALL HARVEST ON KRAFT PAPER

Bring the colors and warm tones of fall to life through a seasonal journal on Stonehenge kraft paper. With its mid-tone background, learn how kraft paper creates an old world look and allows for vibrant colors, dramatic light, and dark application. Using watercolor and colored pencil, learn painting techniques as you focus on drawing fall subjects—such as acorns, squash, pumpkins, and more. **■** *Botanical Drawing III* | \$395/\$435

Certificate Elective

4 Tuesdays, 10/20–11/10, 11 am–2:45 pm

Wendy Hollender | Online | 212BIL455O

REFINED GRAPHITE RENDERING

Though graphite is generally considered to be most beneficial in producing sketches or "studies" for more complete drawings and paintings, it can also be used to produce finished illustrations suitable for publication in scientific journals. Using pencils of various densities, participants in this workshop will learn how to create a range of linear effects and crisp detail. The application of tone through the use of tortillions and graphite dust will result in drawings that "minimize the evidence of the medium"—that is, achieve the appearance of fully-realized renderings. **■** *Botanical Drawing II* \$295/\$325 *Certificate Elective*

3 Sundays, 10/25–11/8, 11 am–4:30 pm
Scott Rawlins | Online | 212BIL370O

BOTANICAL WATERCOLOR II

Practice techniques learned in *Botanical Watercolor I* using live subjects such as leaves, stems, and fruit. Emphasis is on realistic portrayal of botanical subjects and traditional methods of dry brush watercolor painting, with attention to detail and color accuracy. We recommend that students take *Botanical Watercolor II* immediately following *Botanical Watercolor I*. **■** *Botanical Watercolor I* | \$435/\$479 *Certificate Elective*

6 Mondays, 11/30–2/1 (no class 12/21, 12/28, 1/4, & 1/18), 5:30–8:30 pm
Rose Marie James | Online | 212BIL332O

SCALING UP: ENLARGING THE SPECIMEN

The architecture of tiny flowers and fruit is fascinating and rendering them accurately requires enlargement. Learn best practices for viewing and measuring samples. Explore different techniques to scale them up as you paint the enlarged drawings in watercolor. Botanical specimens will

be provided. **■** *Botanical Watercolor I* | \$239/\$265 *Certificate Elective*

5 Thursdays, 3/18–4/15, 10 am–12 pm
Dick Rauh | Online | 213BIL349O

HUMMINGBIRDS

Hummingbirds play a key role in the pollination of many flower types and can add lively interest to your botanical art. You'll learn the anatomy, habitat, and behavior of these diminutive birds, as well as techniques for rendering their vivid hues in colored pencil, watercolor, or graphite. While we will work from photographs, we'll also share tips for sketching in the field. **■** Prerequisite: *Botanical Drawing II* | \$289/\$319 *Certificate Elective*

4 Tuesdays, 2/2–2/23, 11 am–2 pm
Mary Christiansen | Online | 213BIL382O

IN-PROGRESS PORTFOLIO CRITIQUE

As a developing artist, you need personalized, supportive evaluation to improve. This is your chance to bring your finished art and work-in-progress for respectful, careful feedback via group discussion and teacher-led demos. Are your details complete? Are your tonal values correct? Works in colored pencil, graphite, or watercolor are welcome. This class is highly recommended for Portfolio candidates. | \$119/\$129

Wednesday, 2/17, 10 am–3:30 pm
Robin Jess | Online | 213BIL208O

DRAWING MAMMALS

From gerbils to giraffes, and big cats to house cats, mammals make inspiring subjects. Learn the basic anatomy common among mammals, including underlying skeletal and muscular structures to help you create realistic renderings. Develop techniques to address subtle differences in hair and fur patterns, eyes, ears, feet, and teeth. You'll work from photographs and you are welcome to work in any medium with which you feel technically comfortable. **■** *Botanical Drawing III* | \$359/\$395 *Certificate Elective*

3 Sundays, 2/21–3/7, 11 am–4:30 pm
Ariel Fleming | Online | 213BIL358O

NEW! INK WASH TECHNIQUES

If you're looking to transition from drawing to watercolor painting or fine tune your watercolor techniques, this class is for you. You will practice basic techniques such as flat washes, glazing, graded washes, and dry brush for fine details. Dilutions of India ink and earth tone inks will be used to depict botanical and natural science subjects. Please have sample drawings on hand for the first class. **■** *Botanical Drawing II* \$359/\$395 *Certificate Elective*

3 Tuesdays, 3/9–3/23, 10 am–3:30 pm
Laura Vogel | Online | 213BIL407O

Botany



A botany class gives you a deeper understanding of how plants connect us to the natural world, and can be your gateway to herbal healing, cross-cultural understanding, or appreciation of nature’s seasonal beauty.

THE CERTIFICATE PROGRAM

The NYBG Botany Certificate courses in subjects such as native flora, ethnobotany, ecology, and botanical nomenclature reflect the Garden’s strengths in botanical science research, as well as its world-famous and unequalled resources—the William and Lynda Steere Herbarium, housing 7.8 million dried plant specimens, and the LuEsther T. Mertz Library, with its 550,000 volumes, 12,000 serial titles, and 11 million archival documents.

Over the course of the program, students will come to know how plants function, grow, develop, and reproduce—and learn to identify a wide array of plants by stems, leaves, flowers, and fruit.

CERTIFICATE REQUIREMENTS

Course	Code	Hours*	Page
Plant Structure	BOT 315	24	10
Plant Physiology	BOT 316 P	21	10
Plant Diversity	BOT 317 P	24	10
Dendrology: Woody Plant Identification**	BOT 375	15	—
Herbaceous Plant Identification**	BOT 376	15	—
<i>One of the four Native Flora courses:</i>		12	—
Native Flora in Autumn	BOT 331		10
Native Flora in Winter	BOT 332		10
Native Flora in Spring**	BOT 333		—
Native Flora in Summer**	BOT 334		—
<i>Elective Credits (See current electives below)</i>		58	
TOTAL REQUIRED HOURS		169	

ELECTIVES

Course	Code	Hours*	Page
Nature's Pharmacy	BOT 346	4	9
Botanical Latin	GAR 360	10	9
Forest Ecology	BOT326	12	9
Basic Plant ID	BOT 308	6	9
Paleobotany: The Origin of Plants	BOT 434	12	9
Autumn Mushrooms	BOT 368	6	10
Ethnobotany: A Practitioner's Approach	BOT 344	5	10
Psychedelic Mushrooms	BOT 302	2	10
The Science of Tree Communication	BOT 385	6	10
Pressing Plants For Art & Science	BOT 338	9	9
Winter Mushrooms	BOT 394	6	10
Nature's Recording Device	BOT 397	5	10

*Course hours do not include exam hours

**Courses offered in the Spring–Summer Catalog

P Courses with a prerequisite before you can register

QUESTIONS? CONTACT PROGRAM COORDINATOR
JAMIE BOYER, PH.D., AT JBOYER@NYBG.ORG



REGISTER ONLINE AT NYBG.ORG/ADULTED OR CALL 718.817.8720

CERTIFICATE CLASSES**PRESSING PLANTS FOR ART & SCIENCE**

Learn techniques and skills for collecting and preserving museum-quality plant specimens. Build your own herbarium, a permanent record and study aid for Botany and Horticulture courses—or for artistic appreciation. Outside only; rain or shine. \$365/\$395 *Certificate Elective*

4 Fridays, 9/25–10/16, 2–5 pm
Daniel Atha and Catherine Ahn | NYBG | 211BOT338

FOREST ECOLOGY

Explore the basic principles that influence the ecological relationships of the forest ecosystem using the Garden grounds as a site for observation and field study. Blended class; online and on-site. | \$295/\$325 *Certificate Elective*

5 Saturdays, 10/3–11/7 (no class 10/10), 9:30 am †
Stephanie Schmiede | NYBG & Online | 212BOT326BL

PALEOBOTANY: THE ORIGIN OF PLANTS

Paleobotany, the study of plant evolution through fossil evidence, gives us insights into Earth's flora, past and present. Gain a historical perspective on global diversity and climate change, and the origin and development of present-day trees and flowering plants. | \$295/\$325 *Certificate Elective*

5 Mondays, 1/25–3/1, (no class 2/15), & 1 Wednesday, 2/17, 5–7 pm
Jamie Boyer, Ph.D. | Online | 213BOT434O

BASIC PLANT ID

This is the class for plant-lovers eager to up their game! Learn the terminology and basic botanical nomenclature that will help you recognize and describe key differences in common plants. | \$145/\$159

3 Tuesdays, 10/6–10/20, 5–7 pm
Clara Holmes | Online | 212BOT308AO

3 Thursdays, 1/21–2/4, 6–8 pm
Clara Holmes | Online | 213BOT308BO

BOTANICAL LATIN

Botanical Latin is essential for anyone with a serious interest in identifying plants. But, contrary to popular belief, mastering Latin plant names need not be intimidating or boring. Review the rules of taxonomy, Latin grammar, and pronunciation, and learn the history of the binomial system in use today. \$255/\$279 *Certificate Elective*

5 Thursdays, 10/22–11/19, 6:15–8:15 pm
Jennifer Bakshi | Online | 212GAR360BO

5 Thursdays, 1/7–2/4, 10:30 am–12:30 pm
Jennifer Bakshi | Online | 213GAR360CO

5 Mondays, 3/8–4/5, 6:15–8:15 pm
Jennifer Bakshi | Online | 213GAR360DO

NATURE'S PHARMACY

Discover the many herbs and spices prized for centuries to heal, to revitalize the immune system, and to treat and prevent asthma, insomnia, flu, and more. \$115/\$125 *Certificate Elective*

2 Saturdays, 11/7 & 11/14, 10 am–12 pm
Andrea Candee | Online | 212BOT346BO

2 Saturdays, 1/23 & 1/30, 10 am–12 pm
Amy Anthony | Online | 213BOT346CO

† The start time for all sections is as listed; end times vary.
See website for the full schedule.

NATIVE FLORA IN AUTUMN

In autumn our native Northeast flora can be spectacular, but difficult to identify. With a 10X power hand lens and a plant key, you'll learn to identify these wildflowers, shrubs, and trees on the Garden grounds. *Blended class: online and on-site.*

P Prerequisite: *Basic Plant ID* or *Plant Structure* \$295/\$325 *Certificate Requirement*

5 Fridays, 9/25–10/23

(rain date: Saturday, 10/24), 9 am †

Nancy Slowik | NYBG & Online | 211BOT331BBL

NEW! ETHNOBOTANY: A PRACTITIONER'S PERSPECTIVE

NYBG Ethnobotanist Dr. Michael Balick has studied the relationship between plants and people for over 40 years. Explore the basics of ethnobotany, supplemented by stories and data gleaned from his own fieldwork. Discover how selected plant resources are used by traditional and postindustrial cultures today, as well as how plants have been used historically for healing and harm, foods and beverages, and their psychoactive effect. \$115/\$125 *Certificate Elective*

3 Mondays, 10/19–11/2, 5:15–7 pm

Michael Balick, Ph.D. | Online | 212BOT344O

**PSYCHEDELIC MUSHROOMS**

Discover the power, the allure, and the science of psychedelic mushrooms. Food journalist and former president of the New York Mycological Society, Eugenia Bone, author of *Mycophilia*, will discuss the biology of these potent fungi, their cultural history, and contemporary use and regulation in the U.S., as well as the efforts underway to decriminalize and utilize them in therapeutic practice. | \$59/\$65 *Certificate Elective*

Wednesday, 10/28, 6–8 pm

Eugenia Bone | Online | 212BOT302AO

Thursday, 12/3, 10:30–12:30 pm

Eugenia Bone | Online | 212BOT302BO

Monday, 2/22, 6–8 pm

Eugenia Bone | Online | 213BOT302CO

AUTUMN MUSHROOMS

In NYC, fall is the best time to hunt for edible fungi. Paul Sadowski, 25-year veteran of the NY Mycological Society, will lead a mushroom hunt, and show you how to identify many species and their look-alikes, where to find them, and how to cook or preserve them. *Blended class: online and in the field.* | \$145/\$159 *Certificate Elective*

2 Wednesdays, 10/14 & 10/21, 10 am †

Paul Sadowski | Off-site & Online | 212BOT368BL

THE SCIENCE OF TREE COMMUNICATION

Discover how trees communicate via chemical signals in the air (to warn of insect attacks) and transfer nutrients to one another through complex underground fungal networks (sometimes to assist sick trees). | \$125/\$139 *Certificate Elective*

3 Tuesdays, 12/1–12/15, 6–8 pm

Steve Kutos | Online | 212BOT385AO

3 Sundays, 1/24–2/7, 10 am–12 pm

Giselle Herrera | Online | 213BOT385BO

WINTER MUSHROOMS

While plants enjoy their winter's sleep, many fungi are active in forests and parks. We'll explore table favorites like Enoke and Oysters in class and in their habitats. *Blended class: online and in the field.* \$145/\$159 *Certificate Elective*

2 Thursdays, 1/28 & 2/4, 10 am †

Paul Sadowski | Off-site & Online | 213BOT394BL

FIVE PLANTS THAT CHANGED THE WORLD

Embark on a historical odyssey that uncovers the botany behind how yams, heterotrophic eukaryotic fungi, potatoes, and sugar cane played pivotal roles in human history—from helping to save the world from dire illness to sending humans into space to making modern contraception possible. | \$75/\$85

2 Wednesdays, 2/24 & 3/3, 10 am–12 pm

David Saidoff | Online | 213BOT207O

NATURE'S RECORDING DEVICE: WHAT TREE RINGS REVEAL ABOUT CLIMATE CHANGE

This interactive workshop examines tree rings for precious information about climate, precipitation levels, and forest composition changes over time, which may help us predict the pace and scale of change to come. Hike into NYBG's old-growth Thain Family Forest, to identify old trees and learn what they can teach us about our region's ever-changing biodiversity. | \$85/\$95 *Certificate Elective*

2 Fridays, 2/26 & 3/5, 11 am †

Neil Pederson | NYBG & Online | 213BOT397BL

WHAT'S THIS TREE ON MY BLOCK

Learn to distinguish Manhattan's five most common genera and pinpoint particular species in this fun intro to tree identification. | \$59/\$65

Saturday, 11/14, 2–4 pm

James Kaechle | Online | 212BOT223AO

Saturday, 2/20, 2–4 pm

James Kaechle | Online | 213BOT223BO

PLANT DIVERSITY

Explore the myriad structures and diverse life cycles of plants, algae, fungi, and bacteria. Discover how and why scientists have divided and classified these organisms. **P** Prerequisite: *Plant Structure* | \$559/\$615 *Certificate Requirement*

8 Mondays, 10/5–11/30, (no class 10/12) 5–8 pm

Cecilia Zumajo | Online | 212BOT317O

NATIVE FLORA IN WINTER

In class and in forays around the Garden, you'll learn to recognize the winter characteristics of native and common woody plants by bud types, leaf scars, fruit remnants, and other distinguishing marks. **P** Prerequisite: *Basic Plant ID* or *Plant Structure* | \$295/\$325 *Certificate Requirement*

6 Fridays, 1/8–2/12, 11 am–1 pm

Nancy Slowik | NYBG & Online | 213BOT332BL

PLANT STRUCTURE

Get a solid grounding in the basic plant body—from the cell to the roots, stems, leaves, flowers, and fruit. We'll use dissecting and compound light microscopes to observe plant anatomy, then introduce the base-level chemistry required to understand the world of plants. | \$559/\$615 *Certificate Requirement*

8 Tuesdays, 1/19–3/9, 6–9 pm

Jasmin Alim | Online | 213OT315AO

PLANT PHYSIOLOGY

We will cover the role of plant hormones in growth and development, as well as plant movement, water transport through the plant body, and plant metabolism, including photosynthesis and respiration (anaerobic and aerobic). **P** Prerequisite: *Plant Structure* | \$559/\$615 *Certificate Requirement*

7 Mondays, 1/25–3/15 (no class 2/15), 5:30–8:30 pm

Jasmin Alim | Online | 213BOT316PO

† The start time for all sections is as listed; end times vary. See website for the full schedule.

Crafts & DIY



WATERCOLOR BASICS

You love her recent *New Yorker* covers! Award-winning artist and seasoned educator Jenny Kroik is known for the loosely rendered, evocative scenes she describes as “very responsive—like a journal.” Using botanical subjects you have on hand, learn the basics of painting with watercolor or take your work to the next level in a casual environment. Have fun while experimenting with color and creativity! | \$75/\$85

Thursday, 10/15, 6:30–8:30 pm
Jenny Kroik | Online | 212CRF277AO

Sunday, 2/7, 12–2 pm
Jenny Kroik | Online | 213CRF277BO

NEW! INTRODUCTION TO STACKED FOCUS PHOTOGRAPHY

Explore how focus stacking allows photographers to create images of extraordinary depth, sharpness, and detail. This technique is achieved using digital software to combine many images taken of the same subject at different focal lengths. In this introduction, you will learn about the equipment and software you need, see a demonstration of the techniques used, and view images whose botanical details are so vibrant you would think the plants were in your hands. Equipped with this information, you'll be able to easily get started on your own. | \$45/\$49

Thursday, 10/9, 6:30–8 pm
Jeffrey Falk | Online | 212GWP276O

NEW! TURNING FLOWERS INTO ART

Explore multiple ways to bring the beauty of dried flowers into your home. In the first session, you'll discover tips on which flower types will last the longest, how to gather, press, and preserve them, and when to use which materials, such as glycerin and silica gel. Then, use the flowers you've dried to explore making art by painting the flowers to print with, hammering them onto watercolor paper for an embossed look, or pressing them directly on paper. | \$85/\$95

2 Saturdays, 10/24 & 11/7, 2–4 pm
Madeline Yanni | Online | 212CRF237O

BOTANICAL EMBROIDERY BASICS

Embroidery is tightly tied to human culture. The earliest known examples—intricately decorated clothes, boots, and hats found in Russia—date back to 30,000 BCE. NYC-based artist Jessica Maffia will teach you eight different stitches that you will use to create a botanically-inspired, small work of embroidery to hang in your home. *This class is geared toward those with little to no experience embroidering.* | \$75/85

Sunday, 11/1, 11:30 am–2:30 pm
Jessica Maffia | Online | 212CRF278AO

Sunday, 1/10, 11:30 am–2:30 pm
Jessica Maffia | Online | 213CRF278BO

NEW! HOLIDAY WREATHS

Learn to fashion different types and sizes of wreaths—from those that hang on the wall to those surrounding a candle to bring a soft glow to your holiday table. Calamia Crafts owner Madeline Yanni will demonstrate how to make an evergreen wreath from scratch, as well as how to create one using preserved greens such as cedar and juniper, dried seasonal botanicals, and mushroom birds. Demo only. | \$25/\$29

Monday, 11/9, 6–7 pm
Madeline Yanni | Online | 212CRF194AO

Wednesday, 12/2, 6–7pm
Madeline Yanni | Online | 212CRF194BO

NEW! ALL ABOUT TERRARIUMS AND VIVARIUMS

Discover how to design your own terrarium or vivarium with Christopher Satch, plant scientist and award-winning exhibitor at the Philadelphia Flower Show. Through lecture and demonstration, he'll discuss how to set up a simple, easy care terrarium, how to create an automated climate-controlled vivarium, and everything in between. | \$45/\$49

Saturday, 12/5, 10 am–12 pm
Christopher Satch | Online | 212CRF275O

NEW! INTERMEDIATE BOTANICAL EMBROIDERY

Take your basic stitching up a notch! NYC-based artist Jessica Maffia will teach you four ways to transfer a design to fabric, as well as seven basic stitches (lazy daisy, stem, back, French knot, straight, fern, and Rhodes) that you will use to embroider that design. *This class is geared toward those with some experience embroidering.* | \$75/\$85

Sunday, 12/13, 11:30 am–2:30 pm
Jessica Maffia | Online | 212CRF259AO

Sunday, 2/7, 11:30 am–2:30 pm
Jessica Maffia | Online | 213CRF259BO

NEW! INDOOR FERN GARDENS

Fresh from the release of her new book, *The Complete Book of Ferns*, Mobe Weinstein—NYBG's Foreman of Gardeners for Outdoor Gardens—will show you how to choose the right species of ferns to group together into a lush, living arrangement. Become familiar with a wide variety of ferns—their cultural requirements and how big they'll be—so you can choose the best ones to combine into your own miniature landscape. Design an indoor fern garden along with Mobe, or watch and learn! | \$59/\$65

Saturday, 1/23, 11 am–1 pm
Mobe Weinstein | Online | 213CRF215O

Floral Design



The New York Botanical Garden is home to New York City's oldest and most prestigious Floral Design Program, and for over four decades has sent hundreds of graduates on to enjoy rewarding careers. Take an individual course for fun, or pursue a Certificate in Floral Design—either way, you'll develop the mastery and confidence to express yourself through flowers.

THE CERTIFICATE PROGRAM

The NYBG Certificate is a nationally recognized mark of excellence in floral design that tells the world you have the talent and knowledge to interpret changing trends and provide creative design solutions. With comprehensive hands-on instruction from industry pros, you'll create dozens of original floral designs for all occasions, gain a solid grounding in floral theory and history, and develop the contacts and business savvy you need to advance your career or manage your own business.

FOR ALL STUDENTS:

- Register early! With our new, expanded online offer, we often order and ship your flowers to you.
- Please see our website for a list of hard goods (containers, tools, etc.) you must purchase or have on hand before class.

CERTIFICATE REQUIREMENTS

Certificate students must complete 142 total course hours (116 required + 26 elective), plus an 80-hour internship. Students are also required to submit a portfolio showcasing photos of class assignments and their own unique creations. For a complete description of the program including internship and portfolio requirements, please visit our website.

Course	Code	Hours	Page
Fundamentals of Form	FDN 300	16	14
Fundamentals of Style	FDN 302 P	16	14
Wedding Design I: Personals	FDN 304 P	18	14
Color Theory for Floral Design	FDN 306	6	14
Flower ID from A to Z	FDN 308	6	14
Interior Plantscapes	FDN 310	8	14
Shopping the New York Flower Market**	FDN 400	4	—
Modern Sympathy Design**	FDN 382 P	6	—
Wedding Design II: Ceremony & Reception**	FDN 305 P	16	—
Grand-Scale Arrangements	FDN 502 P	8	14
Event Planning for the Floral Designer**	FDN 504 P	12	—
<i>Elective courses</i>		26	
TOTAL REQUIRED HOURS		142	

ELECTIVES

Course	Code	Hours	Page
Prop Styling with Botanicals	FDN 312	2	13
Modern Elegance: Hydrangeas	FDN 357	2	13
Gothic Style: Dark and Dramatic	FDN 307	3	14
Winter White Centerpiece & Tablescape	FDN 320	3	14
Thanksgiving Tabletop	FDN 390	3	14
Compote Arrangement	FDN 349	4	13

**Courses offered in the Spring–Summer Catalog

P Courses with a prerequisite before you can register

QUESTIONS? CONTACT PROGRAM COORDINATOR
THOMAS CAWLEY AT FDNCOORDINATOR@NYBG.ORG



REGISTER ONLINE AT NYBG.ORG/ADULTED OR CALL 718.817.8720

FLOWER ARRANGING AT HOME

Bring cheer into your home and exercise your botanical creativity, with live, real-time direction. Watch your fellow students' efforts online and get personal critiques from your instructor as you build your elegant arrangement with fresh flowers and veggies from your own garden, farmers market, or local grocery store. | \$35/\$45

Thursday, 10/22, 11 am–1 pm
Rose Edinger | Online | 212FDN243AO

Tuesday, 11/17, 6–8 pm
Nsombi Woodson | Online | 212FDN243BO

Tuesday, 12/8, 11 am–1 pm
Rose G. Edinger | Online | 212FDN243CO

Tuesday, 1/19, 6–8 pm
Nsombi Woodson | Online | 213FDN243DO

Monday 2/22, 11 am–1 pm
Rose G. Edinger | Online | 213FDN243EO

Thursday, 3/18, 6–8 pm
Nsombi Woodson | Online | 213FDN243FO

DESIGNING WITH DAHLIAS

Take a page from trend-setting farm-to-table designers, and fashion a playful, free-flowing creation that showcases the exuberance of these late-summer blooms. \$170 materials fee. | \$85/\$95 *Certificate Elective*

Tuesday, 9/22, 10 am–2 pm
Nsombi Woodson | Online | 211FDN398O

NEW! MODERN ELEGANCE: HYDRANGEAS

With charming natural palettes and impressive scale, hydrangeas are a garden favorite. With beautiful blossoms that are durable and easy to handle, they are a natural choice to bring inside for a show-stopping centerpiece. Learn what pairs well with these gorgeous blooms and create a lush arrangement that will look beautiful even after it dries. \$150 materials fee | \$59/\$65 *Certificate Elective*

Wednesday, 10/7, 10 am–12 pm
Rose G. Edinger | Online | 212FDN357O

PROP STYLING WITH BOTANICALS

Professional prop stylist Robin Zachary shares her insights on styling photos using botanicals. She'll demonstrate you how to curate a variety of tabletop settings, including modern, vintage, and rustic photos using botanicals. \$59/\$65 *Certificate Elective*

Saturday, 10/24, 11 am–1 pm
Robin Zachary | Online | 212FDN312AO

Saturday, 2/27, 11 am–1 pm
Robin Zachary | Online | 213FDN312BO

COMPOTE ARRANGEMENT

Learn the techniques and secrets for creating chic, vintage-inspired arrangements in a trendy footed container. Walk through the step-by-step process and craft your lush, romantic centerpiece. \$150 materials fee. \$85/\$95 *Certificate Elective*

Thursday, 12/3, 10:30 am–3 pm
Nsombi Woodson | Online | 212FDN349O



Online Seasonal Workshops

GOTHIC STYLE: DARK AND DRAMATIC

Channel windswept moors and foreboding castles and covens as you design a haunting floral design in utilizing dramatic and beautiful seasonal materials. You'll combine inky toned blooms with twisted branches and seed pods to create witchy, wild arrangements for your entranceways, dining tables, or mantels. \$170 materials fee. | \$75/\$85 *Certificate Elective*

Sunday, 10/25, 11 am–2 pm
Joshua Werber | Online | 212FDN3070

THANKSGIVING TABLETOP

Create a glorious autumnal centerpiece for your Thanksgiving table, crafted from store-bought seasonal flowers and herbs—including roses, Chinese lanterns, celosia, chrysanthemums, mini pumpkins, and lady apples. Set your plant materials in a cluster of repurposed containers and vases for a personalized holiday presentation. Learn tips to showcase an eclectic tabletop of flowers, textures, tableware, props, and linens that complete the harvest ambience. \$75/\$85 *Certificate Elective*

Friday, 11/20, 10 am–12:30 pm
Trish O'Sullivan | Online | 212FDN3900

WINTER WHITE CENTERPIECE & TABLESCAPE

Create a Dutch Masters still-life inspired centerpiece crafted from store-bought seasonal flowers and herbs, including roses, calla lilies, ranunculus, hydrangeas, rosemary, berries, pine, and eucalyptus stems. We will repurpose a favorite container or vase for a personalized holiday presentation. Our wintry tablescape will showcase bouquets of flowers, botanical materials, and fresh herbs, along with the latest in napkin and candle decoration invoking warm yuletide cheer. | \$75/\$85 *Certificate Elective*

Friday, 12/18, 10 am–12:30 pm
Trish O'Sullivan | Online | 212FDN3200

CERTIFICATE CLASSES

Open to Non-Certificate students

FUNDAMENTALS OF FORM

Learn the basics of successful floral design and master the mechanics needed for round, triangular, parallel, and crescent arrangements. Experiment with shape, line, and symmetry while composing beautiful, balanced creations. \$275 materials fee. | \$395/\$435 *Certificate Requirement*

Friday–Saturday, 9/25–9/27, 10 am–4 pm
Nsombi Woodson | Online | 211FDN300FO

Wednesday–Friday, 10/28–10/30, 10 am–4 pm
Thomas Cawley | Online | 212FDN300AO

Tuesday–Thursday, 1/26–1/28, 10 am–4 pm
Nsombi Woodson | Online | 213FDN300BO

FUNDAMENTALS OF STYLE

The ability to command a broad vocabulary of styles defines the professional floral designer. From Neo-Classical and Victorian to English garden and Flemish, understanding floral styles expands your design options, evokes specific moods, and helps create the perfect setting. \$275 materials fee. **P** Prerequisite: *Fundamentals of Form* \$395/\$435 *Certificate Requirement*

Wednesday–Friday, 9/30–10/2, 10 am–4 pm
Nsombi Woodson | Online | 211FDN302AO

Wednesday–Friday, 11/4–11/6, 10 am–4 pm
Thomas Cawley | Online | 212FDN302BO

Wednesday–Friday, 2/3–2/5, 10 am–4 pm
Thomas Cawley | Online | 213FDN302CO

WEDDING DESIGN I: PERSONALS

Flowers are crucial for a memorable wedding. Learn the art of successful floral wedding design, including fine wiring and taping to create corsages and boutonnieres with fresh flowers, ribbons, and bows. Advance to styling and assembling bridal and bridesmaid bouquets. \$250 materials fee. **P** Prerequisite: *Fundamentals of Style* | \$395/\$435 *Certificate Requirement*

Wednesday–Friday, 10/7–10/9, 10 am–5 pm
Nsombi Woodson | Online | 212FDN304AO

Wednesday–Friday, 11/18–11/20, 10 am–5 pm
Thomas Cawley | Online | 212FDN304BO

Wednesday–Friday, 2/10–2/12, 10 am–5 pm
Thomas Cawley | Online | 213FDN304CO

COLOR THEORY FOR FLORAL DESIGN

Colors—like flowers themselves—evoke feelings and set the mood. Explore the role of color in floral design across a spectrum of flowers. This course gives you a solid grounding in color theory, while highlighting popular hues and color combinations. \$180 materials fee. | \$195/\$215 *Certificate Requirement*

Thursday & Friday, 11/12 & 11/13,
9:30 am–12:30 pm
Rose Edinger | Online | 212FDN306AO

Wednesday & Thursday, 2/24 & 2/25,
9:30 am–12:30 pm
Rose G. Edinger | Online | 213FDN306BO

INTERIOR PLANTSCAPES

Florists and designers who want long-lasting, gorgeous interior plantings won't want to miss this unique class highlighting essential horticulture practices for selecting and maintaining plants for atria, corporate offices, and special events. Trimming, pruning, soil testing, pest prevention, cleaning, and more are covered. | \$195/\$215 *Certificate Requirement*

4 Tuesdays, 10/6–10/27, 10 am–12 pm
Chris Raimondi, CLP | Online | 212FDN3100

FLOWER ID FROM A TO Z

Learn to identify new floral varieties of old favorites, seasonal flowers, and various foliage. Topics include special handling requirements of many flower types. | \$195/\$215 *Certificate Requirement*

3 Mondays, 11/2–11/16, 5–7 pm
Rose G. Edinger | Online | 212FDN308AO

3 Tuesdays, 2/2–2/16, 5–7 pm
Rose G. Edinger | Online | 213FDN308BO

GRAND-SCALE ARRANGEMENTS

Full, lavish arrangements to enhance entrance halls, ballrooms, parties, and hotels are always in demand. Learn the mechanics behind how these dramatic arrangements are designed and constructed. \$300 materials fee. **P** Prerequisite: *Wedding Design I* | \$229/\$255 *Certificate Requirement*

Thursday & Friday, 10/15 & 10/16, 10 am–2:30 pm
Nsombi Woodson | Online | 212FDN502O

Food & Drink



Experiment with fermentation, food preservation, and mixology!

NEW! FALL EDIBLE PLANTS

Take a guided ramble with wild foods author and forager Marie Viljoen and learn to how to identify and use the edible plants that are indigenous to the Northeast. Visit NYBG's Native Plant Garden and the Thain Family Forest and discover what these plants look like in fall, a skill that is key to successful foraging in each season. Outside only; rain or shine. | \$59/\$65

Thursday, 10/15, 11 am–1 pm
Marie Viljoen | NYBG | 212CKG229

FERMENTING VEGETABLES

Fermentation is one of the oldest food processing methods still used today. Discover the basic science behind how to ferment vegetables—from sauerkraut and beets to carrots and corn. Fermentation expert Cheryl Paswater will demonstrate best practices for fermenting vegetables while we discuss the many health benefits fermented foods can provide. | \$45/\$49

Monday, 10/26, 6:30–8pm
Cheryl Paswater | Online | 212CKG2410

NEW! HOLIDAY PRESERVES

Ring in the holiday season with decadent winter fruit preserves. Learn how to make brandied fruit, spiced apple compote, and almond pears in amaretto syrup from Cornell-trained master food preserver Stephen Nocera. He will demonstrate how to properly preserve fruit, make these delectable delights, and share recipes that will add pizzazz to your holiday table or be the favorite homemade gift for your foodie friends and family! | \$45/\$49

Sunday 11/15, 11 am–1 pm
Stephen Nocera | Online | 212CKG2180

NEW! BOTANICAL MIXOLOGY FOR THE HOLIDAYS

Go beyond the garnish to explore the world of oleo-saccharums, infusions, simple syrups, and tinctures using plants and ingredients accessible to the urban gardener/drinker. You'll learn history and receive growing advice, as well as recipes. Jim will demonstrate how to make your own tincture to perk up your holiday cocktails! | \$45/\$49

Friday, 11/20, 6–7:30 pm
Jim Freeman | Online | 212CKG2430

THE KITCHEN MYCOLOGIST

You'll be a better mushroom cook after learning basic mycology (the study of fungi) through the lens of your kitchen. This illustrated talk explores the intersection of mycology and the selection, storage, preparation, and nutritional value of mushrooms; the way fungi spoils foods and improves foods; the biologic reason why mushrooms taste differently and why some are more expensive than others; and the impact of endophytic fungi and mycorrhizal networks on food crops. | \$45/\$49

Tuesday, 12/1, 6–8 pm
Eugenia Bone | Online | 212CKG2300

PRESERVING CITRUS: MARMALADES & CURD

Early winter is when citrus is at its juiciest. Learn how to preserve these fruits and savor their tangy flavor throughout the year. Cornell-trained master food preserver Stephen Nocera will demonstrate the proper balance of sweet and tart while making a Meyer lemon curd, a pectin-free tangerine marmalade, and Moroccan-style preserved lemons. | \$45/\$49

Sunday, 1/24, 11 am–1 pm
Stephen Nocera | Online | 213CKG2490

MAKING KOMBUCHA

Fermentation—known as zymology—refers to the conversion of carbohydrates into alcohols, carbon dioxide, yeast, or bacteria. Discover the basic science of how to ferment tea in order to make kombucha, as well as how it can improve your gut health. You'll learn different ways to brew teas, receive a variety of kombucha recipes, sources for acquiring starter culture, and best practices for feeding it. | \$45/\$49

Monday, 2/22, 6:30–8:00 pm
Cheryl Paswater | Online | 213CKG2010

NEW! FORAGING IN WINTER

When the trees have dropped their leaves and there is a chill in the air, there are still many things to see in the woods and wide-open spaces. Join wild foods author and forager Marie Viljoen for a brisk walk in the Garden to discover and identify edible, fragrant, and useful plants, such as juniper, spicebush, and bayberry in their winter camouflage. Outside only; snow or shine. | \$59/\$65

Thursday, 1/21, 11 am–1 pm
Marie Viljoen | NYBG | 213CKG247

Gardening



Now more than ever, people are realizing the physical, social, and psychological benefits of home and community gardening. Whether you are pursuing a Certificate or just looking for a fun class, NYBG is a great place to increase your gardening knowledge and improve your skills. Taught by top professionals, each course provides cutting-edge information on ecologically responsible garden care and design, including plant use, soil husbandry, composting, and pest control. Lectures are supported by hands-on study on the Garden's historic grounds.

THE CERTIFICATE PROGRAM

Upon completion of the NYBG Gardening Certificate Program, students will:

- Create beautiful and ecologically sound gardens that combine trees, shrubs, perennials, annuals, and bulbs.
- Be proficient in identifying, selecting, cultivating, and caring for trees and shrubs, vegetables, flowers, and fruit.
- Have the confidence to grow and maintain home, terrace, or community gardens.
- Understand the essential concepts of sustainable gardening practices for trees, shrubs, lawns, perennials, and vegetables.

CERTIFICATE REQUIREMENTS

Course	Code	Hours	Page
Fundamentals of Gardening	GAR 301	12	19
Introduction to Plant Science	HRT 300	16	23
Soil Science for Gardeners	GAR 302	12	19
Gardening with Native Plants**	GAR 315	9	—
Insect Identification and Management	GAR 320	12	19
Disease Identification and Management	GAR 324	12	19
Fundamentals of Garden Design	GAR 342 P	12	19
Vegetable Gardening	GAR 431 P	12	19
Complete Garden Care and Maintenance	GAR 440 P	18	19
Pruning Principles and Practices	HRT 321	15	25
Plants for Landscaping	HRT 358	16	24
Plant Propagation I: Basic Principles	HRT 411 P	18	24
<i>Elective GAR or HRT courses</i>			23
TOTAL REQUIRED HOURS		187	

ELECTIVES

Course	Code	Hours	Page
Organic Gardening Basics	GAR 308	8	18
Garden Design Workshop	GAR 317	8	17
Container Gardening	GAR 327	8	17
A Four-Season Native Garden	GAR 369	4	18
Botanical Latin	GAR 360	10	9
Rooftop Gardening	GAR 328	6	18

**Courses offered in the Spring–Summer Catalog

P Courses with a prerequisite before you can register

For professional organizations, see p. 35.

QUESTIONS? CONTACT PROGRAM COORDINATOR
DARYL BEYERS AT GARCOORDINATOR@NYBG.ORG

**BASIC LANDSCAPE DESIGN FOR GARDENERS****INTRO TO LANDSCAPE DESIGN**

Gain an introduction to the terminology, concepts, and basic principles of landscape design through lectures and simple two-dimensional exercises. \$185/\$205

See p. 29 for full list of dates and times.

CONTAINER GARDENING

Learn how to create a container garden for your patio, terrace, or entryway that's both functional and gorgeous—and helps your plants thrive in all four seasons. | \$229/\$249 *Certificate Elective*

4 Thursdays, 10/22–11/12, 10 am–12 pm
Renee Marsh | Online | 212GAR3270

A GARDEN DESIGN PRIMER

Put all your garden ideas into practice with this practical overview of the best layout plans and circulation patterns. Learn how to analyze space and proportions to create a coherent landscape design that complements both home and garden. | \$39/\$45

Wednesday, 11/4, 6–8 pm
Daryl Beyers | Online | 212GAR222CO

Sunday, 1/10, 10 am–12 pm
Daryl Beyers | Online | 213GAR222BO

GARDEN DESIGN WORKSHOP

Learn the basics, review examples that work for different architectural styles and site conditions, and develop a go-to plant list for your home landscape. In the second session, you will develop and draw a basic design plan for your garden that you can refine and implement come spring. | \$225/\$249 *Certificate Elective*

3 Sundays, 10/18–11/1, 10 am–12:40 pm
Daryl Beyers | Online | 212GAR317AO

3 Sundays, 1/31–2/21 (no class 2/14), 10 am–12:40 pm
Daryl Beyers | Online | 213GAR317BO

PERENNIAL PLANT COMBINATIONS

Whether in a shady corner or a sunny border, selecting the right plant combinations can turn a ho-hum garden into one that gets rave reviews. Concentrating on perennials, learn to combine color, texture, height, and bloom to create a harmonious garden come spring. | \$79/\$85

2 Saturdays, 10/17 & 10/24, 10:30 am–12:30 pm
Sheri Forster | Online | 212GAR173DO

2 Wednesdays, 1/27 & 2/3, 10:30 am–12:30 pm
Sheri Forster | Online | 213GAR173AO

2 Tuesdays, 2/9 & 2/16, 10:30 am–12:30 pm
Sheri Forster | Online | 213GAR173BO

2 Wednesdays, 2/24 & 3/3, 10:30 am–12:30 pm
Sheri Forster | Online | 213GAR173CO

OUTDOOR PLANTS

ROOFTOP GARDENING

Rooftop, terrace, and balcony spaces have their own unique challenges for soil maintenance, watering, crop management, installation, and more. Manager of NYBG's Edible Academy Annie Novak, cofounder of America's first fully landscaped green roof commercial vegetable farm, and author of the 2016 bestseller *The Rooftop Growing Guide*, shows you how to make your rooftop garden thrive. From vegetable selection to pest control to composting, you'll learn the basics of rooftop, terrace, and balcony growing, covering both container and green roof garden systems. \$115/\$125 *Certificate Elective*

3 Tuesdays, 10/6–10/20, 6:15–8:15 pm
Annie Novak | Online | 212GAR3280

A FOUR-SEASON NATIVE GARDEN

With a little planning, your garden can look beautiful, even after the flowers fade. Instructor Kim Eierman will introduce you to native plants that extend the color show and textural interest in your garden through fall and winter, with beautiful foliage, striking structure, colorful branches, berries, and seed pods. \$85/\$95 *Certificate Elective*

2 Saturdays, 10/17 & 10/24, 10 am–12 pm
Kim Eierman | Online | 212GAR3690

VERSATILE VIBURNUMS

Viburnums have skyrocketed in popularity for good reason! They offer unparalleled beauty and fragrance, adaptability and pest resistance, landscape diversity, food for birds and pollinators, and much more. Learn how to choose and care for the many available native and exotic species and cultivars that can thrive in your garden. | \$59/\$65

2 Saturdays, 10/31 & 11/7 10:30 am–12 pm
Vincent Simeone | Online | 212GAR1560



NEW! INTRODUCTION TO BULBS

Since autumn is the optimum season to plant bulbs, now is the time to decide what will work best in your garden. In this class, you'll receive an overview of bulbs—what they are and how to properly plant them. Common problems and solutions for a successful growing season will also be covered. | \$55/\$59

2 Tuesdays, 11/10 & 11/17, 5–6:30 pm
Michael Hagen | Online | 212GAR287BO



CUT FLOWER FARMING

Discover how to design, plant, grow, and harvest a cutting garden that will be productive throughout the year. You'll practice starting seeds to ensure you always have something fresh to cut. We'll also cover traditional and unexpected annuals that thrive locally. | \$169/\$185

3 Thursdays, 2/11–2/25, 6:15–8:15 pm
Anne Marie Breyer | Online | 213HRT142BO

GARDEN MAINTENANCE

PUT YOUR GARDEN TO BED

What can you do this fall for your best garden ever next spring? Learn techniques to improve soil quality, protect perennials and tender plants through the winter, eliminate potential sites for insects and diseases, and manage all those fallen leaves. | \$45/\$49

Sunday, 10/4, 10 am–12 pm
Leda Meredith | Online | 212GAR185AO

Friday, 10/23, 10 am–12 pm
Leda Meredith | Online | 212GAR185BO

PRUNING: HOW, WHEN, AND WHERE

This two-day course covers proper pruning techniques for maintaining shrubs, evergreens, hedges and trees. Recommended tool choices and their maintenance will be discussed. Shrub pruning demonstration included. | \$75/\$85

2 Saturdays, 10/31 & 11/7, 10 am–12 pm
Ann Perkowski | Online | 212GAR236AO

2 Saturdays, 2/27 & 3/6, 10 am–12 pm
Ann Perkowski | Online | 213GAR236BO

ORGANIC GARDENING BASICS

Explore the organic method—its philosophy and history, biological principles, and practical techniques. This course will cover how to build and maintain soil health, encourage biodiversity, use water and energy responsibly, and avoid chemicals. The focus is on how to restore, maintain, and enhance ecological harmony in your garden—from ornamentals to vegetables to lawns. | \$229/\$255 *Certificate Elective*

4 Wednesdays, 2/10–3/3, 10 am–12 pm
Renee Marsh | Online | 213GAR3080

INDOOR PLANTS



LIVING WILD WITH HILTON CARTER

Author, artist, and plant stylist, Hilton Carter is an advocate for seeing plants as living beings worthy of your passion, time, and attention. His own home is filled with more than 200 of them. In this

talk he'll share the best plants for particular rooms, his top 10 favorites right now, and how to care for them. Along the way you'll get inspiration on how to use plants to create an oasis of calm in your own home.

Hilton Carter's work has been featured in *The New York Times*, *Wall Street Journal*, HGTV, and BuzzFeed among others. His popular 2019 book, *Wild at Home*, was followed up this year with *Wild Interiors: Beautiful Plants in Beautiful Spaces*. | \$15/\$18

Tuesday, November 10, 7–8 pm
Online | 212GAR8250

FRAGRANT INDOOR GARDEN

When winter winds blow cold, bring nature inside with houseplants that provide fragrance and color year round. Learn the full range of indoor plants with scented flowers and foliage: citrus, jasmines, hoyas, passionflowers, geraniums, orchids, herbs, bulbs, and more! Learn to select the right plant for each growing space and discover how to pot, water, and fertilize scented plants. | \$55/\$59

Saturday, 2/27, 10 am–12 pm
Jim Freeman | Online | 213GAR2230

NEW! PLANT PROPAGATION FOR THE HOME GARDENER

Discover how to reproduce the plants you love! Have your favorite plants ready for this interactive online session, where you'll learn the best ways to create cuttings and make divisions for propagating different species. We'll show you what rooting material to use, and how to care for your new plants as they grow. | \$55/\$59

Tuesday, 2/9, 6–8 pm
Nick Gershberg | Online | 213GAR2880

CERTIFICATE CLASSES

Open to Non-Certificate students

BOTANICAL LATIN

Review the rules of taxonomy, Latin grammar, and pronunciation, and learn the history of the binomial system in use today. | \$255/\$279
Certificate Elective

5 Thursdays, 10/22–11/19, 6:15–8:15 pm
Jennifer Bakshi | Online | 212GAR360BO

5 Thursdays, 1/7–2/4, 10:30 am–12:30 pm
Jennifer Bakshi | Online | 213GAR360CO

5 Mondays, 3/8–4/5, 6:15–8:15 pm
Jennifer Bakshi | Online | 213GAR360DO

FUNDAMENTALS OF GARDENING

This course is also required for the Horticultural Therapy Certificate.

Explore the basics of successful, environmentally friendly gardening. Topics include soils and their improvement, seed sowing, vegetative propagation, planting, pruning, watering, weeding, mulching, and disease and pest control. | \$295/\$325
Certificate Requirement

6 Saturdays, 11/7–12/19, 12–2 pm
Jennifer Cappello-Ruggiero | Online
212GAR301BO

6 Wednesdays, 1/6–2/10, 6–8 pm
Daryl Beyers | Online | 213GAR301CO

6 Fridays, 1/29–3/5, 10 am–12 pm
Renee Marsh | Online | 213GAR301DO

6 Wednesdays, 3/10–4/14, 10 am–12 pm
Renee Marsh | Online | 213GAR301EO

FUNDAMENTALS OF GARDEN DESIGN

This class introduces basic garden design principles using the interplay of structural features, plant characteristics, and site assessment. Learn to creatively combine trees, shrubs, perennials, annuals, and bulbs based on color, shape, texture, and size. Blended class: online and on-site.

Prerequisite: *Plants for Landscaping*
\$285/\$315 *Certificate Requirement*

5 Tuesdays, 11/10–12/15 (no class 11/24)
10:30 am–1 pm
Sheri Forster | Online | 212GAR342AO

5 Tuesdays 2/2–3/2, 6:15–8:45 pm
Daryl Beyers | Online | 213GAR342BO

VEGETABLE GARDENING

Examine pre-planting procedures, from soil preparation to crop rotation planning. Study the timing and techniques of planting, pest management, and harvest and post-harvest handling. Survey heirloom varieties, new cultivars, and classic selections. Prerequisite: *Fundamentals of Gardening* | \$265/\$289 *Certificate Requirement*

6 Wednesdays, 10/14–12/2, (no class 11/11 or 11/25) 6:15–8:15 pm

Nick Storrs | Online | 212GAR431AO

6 Wednesdays, 2/3–3/10, 6:15–8:15 pm
Nick Storrs | Online | 213GAR431BO

INSECT IDENTIFICATION AND MANAGEMENT

Pest identification is key to maintaining a healthy garden. Identify which common insects are pests and which are beneficial. Learn the most common orders of insects and the damage they can cause, as well as simple, non-toxic methods of preventing major infestations. Please bring samples of insects and damaged plants to class. | \$285/\$319
Certificate Requirement

5 Sundays, 11/1–12/13 (no class 11/8 or 11/29),
11 am–1:30 pm

Mark Kokinchak | Online | 212GAR3200

SOIL SCIENCE FOR GARDENERS

Understand how soil qualities affect overall plant productivity and make sustainable gardening possible. Topics include soil formation and physical properties; soil-water relationships; irrigation, drainage, and fertilization techniques; and basic soil sampling, pH, and nutrient testing. Note: this is not the same as *Soil Science* | \$285/\$315
Certificate Requirement

6 Tuesdays, 1/12–2/16, 10 am–12 pm
Manny Grossman | Online | 213GAR302O

DISEASE IDENTIFICATION AND MANAGEMENT

It's essential to identify plant diseases before they become widespread in your garden. Explore the basics of disease management, and learn how the principles of Integrated Pest Management (IPM) can help you maintain a strong and healthy garden. \$285/\$319 *Certificate Requirement*

6 Wednesdays, 1/13–2/17, 6:15–8:15 pm

† The start time for all sections is as listed; end times vary. See website for the full schedule.

Online Weekend Gardening Workshops

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All About Containers Saturdays

Saturdays, October 17, 24, & 31
9:30–11:30 am

CONTAINER GARDENING 101

Learn the basics for planting and maintaining a healthy outdoor container garden: materials and container styles, potting mixes, fertilization, and watering.

October 17 | Daryl Beyers | 212GAR200BO

THE VERY BEST PLANTS FOR POTS

Containers are an unnatural habitat, with fertilizer, water and root restrictions that suit some plants better than others. Find out which plants to avoid, which ones work well, and which ones really thrive.

October 24 | Renee Marsh | 212GAR200CO

NEW! GREAT NATIVE PLANTS FOR CONTAINERS

Learn which native plants are the best choices to use successfully in containers. Even if you don't have room for a perennial garden, you can still invite nature into your yard, patio, or balcony with some great native plants in containers. The butterflies, beneficial insects, hummingbirds, and pollinators will thank you.

October 31 | Kim Eierman | 212GAR200DO

Registration fee for each section: \$39/\$45
All Three Sections: \$99/\$109
212GAR200AO

NEW! Native Plant Sundays

Sundays, November 8, 15 & 22
9:30–11:30 am

NATIVE PLANT SELECTION

Discover what makes a plant native, how to find and select the best species for your garden, and how to support and encourage pollinators in your own landscape.

November 8 | Kim Eierman | 212GAR202BO

DESIGNING WITH NATIVE PLANTS

Explore how to successfully incorporate native plants into your plans for sustainable garden designs filled with the beauty and diversity you desire.

November 15 | Renee Marsh | 212GAR202CO

PROPAGATING NATIVE PLANTS

Learn how to collect and sow the seeds of native plants from your local landscape or from commercial sources, and how to propagate plants from your own collection through techniques such as division, cuttings, and layering.

November 22 | Nick Gershberg | 212GAR202DO

Registration fee for each section: \$39/\$45
All Three Sections: \$99/\$109 | 212GAR202AO

Apartment Gardener's Saturdays

Saturdays, November 7, 14, & 21
9:30–11:30 am

CREATING AN INDOOR GARDEN

Select the right plants, based on light, temperature, and aesthetics. Discover unusual plants, and tools and techniques to keep indoor plants healthy.

November 7 | Chris Raimondi, CLP | 212GAR299BO

SUCCEED WITH LOW-LIGHT PLANTS

Many new and unusual plants can thrive in light-deprived corners. Choose the right plants for your space, and develop fertilization, water management, and pest control techniques for these shade-loving species.

November 14 | Nick Gershberg | 212GAR299CO

GROWING HERBS INDOORS

Whether you're bringing outdoor herbs inside, or starting a kitchen herb garden from scratch, this class covers the essentials—from managing indoor conditions to harvesting and storing herbs for maximum flavor and fragrance.

November 21 | Nick Storrs | 212GAR299DO

Registration fee for each section: \$39/\$45
All Three Sections: \$99/\$109 | 212GAR299AO

Wake Up Your Garden! Saturdays

February 20, 27, & March 6
10 am–12 pm

SPRING GARDENERS TASK LIST

Spring cleaning gives your garden a head start on a great growing season. Review a spring maintenance checklist, from raking off winter mulch to spotting signs of winter injury and noting where gaps in the garden can be filled.

February 20 | Daryl Beyers | 213GAR225BO

SOIL BASICS: GET IT RIGHT!

Rich, nutritious soil makes for large, healthy plants and reduces the need for regular fertilization. Learn the difference between soil structure and texture; how these differences affect plant growth; and how to modify and improve your soil. Give your garden a solid foundation, and you'll reap the benefits for years to come.

February 27 | Manny Grossman | 213GAR225CO

PRUNING: SHAPE-UP FOR SPRING

Are you intimidated by pruning? March is a great time to thin out overgrown woody plants to create open, healthy, beautiful trees and shrubs. Learn how and when and why to prune, the tools for the job, and the difference between maintenance and rejuvenation pruning.

March 6 | Michael Ruggiero | 213GAR225DO

Registration fee for each section: \$39/\$45
All Three Sections: \$99/\$109
213GAR225AO



Horticulture



Develop the vital skills needed to protect and manage sustainable landscapes, maintain healthy trees, design attractive gardens, and produce landscape plants. Enroll in a single class or pursue a Horticulture Certificate.

THE CERTIFICATE PROGRAM

Increasing concerns for environmental quality, conservation, and restoration are driving jobs nationwide at landscaping companies, nurseries and garden centers, public parks, botanical gardens, and private estates. The NYBG Horticulture Certificate is a NY State licensed credential that helps professionals enhance their profiles, and individuals pursue new green careers. Taught by landscape and horticulture experts, the unique program blends classroom theory with field studies in the Garden's historic landscape, offering a high standard of training in four areas of concentration: Plant Production, Sustainable Landscape Management, Arboriculture, and Sustainable Garden Design.

CERTIFICATE REQUIREMENTS

Course	Code	Hours	Page
Plant Production TRACK 1			
Introduction to Plant Science	HRT 300	16	23
Soil Science I: Physical Properties	HRT 301	18	23
Soil Science II: Chemistry and Nutrition	HRT 302	18	23
Horticultural Techniques: Greenhouse Practices	HRT 312 P	15	24
Insect Pests of Landscape Plants**	HRT 381 P	18	—
Plant Propagation I: Basic Principles	HRT 411 P	18	24
Plant Propagation II: Applications	HRT 412 P	13	25
Disease Identification & Management	HRT 481 P	18	24
Nursery and Greenhouse Management**	HRT 491 P	24	—
TOTAL REQUIRED HOURS		158	
Sustainable Landscape Management TRACK 2			
Introduction to Plant Science	HRT 300	16	23
Soil Science I: Physical Properties	HRT 301	18	23
Soil Science II: Chemistry and Nutrition	HRT 302 P	18	23
Horticultural Techniques: Landscape Gardening	HRT 311 P	18	24
Pruning Principles and Practices	HRT 321 P	15	25
Basic Design and Installation of Irrigation Systems**	HRT 323	12	—
Business Practices for the Landscape Professional	LAN 457	12	25
Insect Pests of Landscape Plants**	HRT 381 P	18	—
Tree Management	HRT 422 P	14	25
Landscape Management	HRT 443 P	24	25
Disease Identification & Management	HRT 481 P	18	24
Weed Identification & Management**	HRT 482 P	12	24
Mathematics for Horticulturists**	HRT 356	6	—
TOTAL REQUIRED HOURS		201	

Course	Code	Hours	Page
Arboriculture TRACK 3			
Introduction to Plant Science	HRT 300	16	23
Soil Science I: Physical Properties	HRT 301	18	23
Soil Science II: Chemistry and Nutrition	HRT 302 P	18	23
Tree Climbing for Arborists**	HRT 304	15	—
Chainsaws: Use, Safety, and Maintenance	HRT 308	6	25
Pruning Principles and Practices	HRT 321 P	15	25
Landscape Plants: Fall Trees and Shrubs	HRT 331 P	12	24
Landscape Plants: Conifers	HRT 333 P	12	25
Landscape Plants: Spring Trees and Shrubs**	HRT 334 P	12	—
Insect Pests of Landscape Plants**	HRT 381 P	18	—
Tree Management	HRT 422 P	14	25
Urban Tree Care**	HRT 426 P	12	—
Winter Tree Identification	HRT 440 P	8	25
Disease Identification & Management	HRT 481 P	18	24
TOTAL REQUIRED HOURS		194	

Sustainable Garden Design TRACK 4

Introduction to Plant Science	HRT 300	16	23
Soil Science I: Physical Properties	HRT 301	18	23
Landscape Plants: Broadleaved Evergreens	HRT 332 P	9	25
Landscape Plants: Spring Trees and Shrubs**	HRT 334 P	12	—
Landscape Plants: Spring Perennials**	HRT 336 P	9	—
Landscape Plants: Late Season Perennials & Grasses	HRT 338 P	12	24
Landscape Plants: Annuals**	HRT 341 P	8	—
Landscape Plants: Bulbs**	HRT 342 P	12	—
Annual and Perennial Garden Maintenance	HRT 344 P	8	25
Plants for Landscaping	HRT 358	16	24
Plant Communities	HRT 140	6	23
Sustainable Garden Care**	HRT 395	8	—
Sustainable Garden Design	HRT 551 P	20	25
Landscape Design History	LAN 301	24	30
Graphics I	LAN 311	24	30
TOTAL REQUIRED HOURS		202	

*Course hours do not include exam hours

**Courses offered in the Spring–Summer Catalog

P Courses with a prerequisite before you can register

For professional organizations, see p. 35.

QUESTIONS? CONTACT PROGRAM COORDINATOR
 CHARLES YURGALEVITCH, PH.D.,
 AT HRTCOORDINATOR@NYBG.ORG



CERTIFICATE CLASSES

Open to Non-Certificate students

INTRODUCTION TO PLANT SCIENCE ALL TRACKS

This user-friendly intro course surveys the major plant groups—flowering plants, conifers, ferns, and bryophytes—focusing on their form and structure. Become botanically literate and gain practical experience in dissecting and analyzing plant structures. | \$395/\$435

8 Sundays, 10/18–12/13 (no class 11/29), 10:30 am–12:30 pm
Nina Naghshineh | Online | 212HRT300AO

8 Fridays, 10/23–12/18 (no class 11/27), 9:30 am–11:30 pm
Nicole Fusco | Online | 212HRT300BO

5 Tuesdays and 3 Thursdays, 11/10–12/8 (no class 11/26), 6–8 pm
Giselle Herrera | Online | 212HRT300CO

4 Mondays & 4 Wednesdays, 1/11–2/8 (no class 1/18), 10:30 am–12:30 pm
Steve Kutos | Online | 213HRT300DO

8 Saturdays, 1/23–3/20 (no class 2/13), 10:30 am–12:30 pm
Manny Grossman | Online | 212HRT300EO

8 Thursdays, 1/28–3/18 (no class 2/13), 6–8 pm
Giselle Herrera | Online | 213HRT300FO

8 Fridays, 2/5–3/26 (no class 2/13), 10 am–12 pm
Leslie Day | Online | 213HRT300GO

SOIL SCIENCE I ALL TRACKS

Soil is a dynamic, living organism and the very foundation of sustainable horticulture and agriculture. This course focuses on the texture, structure, density, and color of different soils and the dynamic relationship that exists among soil, water, and plants. Through lectures and at-home labs, learn irrigation and drainage techniques and explore how soil, organic matter, and microbiology relate to plant health and soil conservation. | \$455/\$495

7 Mondays, 10/5–11/23 (no class 10/12), 10:30 am–1:30 pm
Manny Grossman | Online | 212HRT301AO

7 Sundays, 10/25–12/13 (no class 11/29), 12–3 pm
Katharhy Grossman | Online | 212HRT301BO

7 Tuesdays, 1/19–3/2 (no class 2/13), 2–5 pm
Katharhy Grossman | Online | 213HRT301PO

6 Saturdays, 1/23–3/6 (no class 2/13), 10:30 am–1:30 pm
George Lozefski | Online | 213HRT301CO

10 Mondays, 2/22–4/26 (no class 3/26), 6–8 pm
Manny Grossman | Online | 213HRT301DO

SOIL SCIENCE II: CHEMISTRY AND NUTRITION TRACKS 1, 2, & 3

This course is for horticulturists and gardeners familiar with the basic culture of perennials. Learn the identifying characteristics, classification, scientific and common names, and landscape uses of 60 summer- and fall-blooming native and non-native perennials and grasses. | Prerequisite: *Intro to Plant Science* | \$395/\$445

6 Tuesdays, 1/12–2/16, 10 am–1 pm
George Lozefski | Online | 213HRT302O

† The start time for all sections is as listed; end times vary.
See website for the full schedule.

☞ Exam on last class date.

What's Trending in Horticulture

PLANT COMMUNITIES

Fundamentally change the way you view natural landscapes by learning about the complex factors that inform which plants grow in what combinations. Understanding how and why these plant communities form will help you design beautiful landscapes that are more resilient, diverse, and harmonious. Blended class: online and on-site | \$169/\$185

3 Fridays, 9/25–10/9, 9:30 am †
Jessica Schuler | NYBG & Online | 211HRT140BL

NEW TECHNOLOGIES IN URBAN FARMING

As growing urban populations deplete arable land and potable water, innovative agri-entrepreneurs -aeroponics, aquaponics, and hydroponics to grow food indoors without soil. Three NYC-based experts will discuss their systems and what these new technologies mean for agriculture, climate, and culture today. | \$15/\$18

Thursday, 10/8, 6–7 pm
Charles Yurgalevitch | Online | 212HRT155AO

Thursday, 2/4, 6–7 pm
Charles Yurgalevitch | Online | 213HRT155BO

NEW! GROWING CANNABIS

Study the entire cannabis growing cycle, including best practices for critical harvest and post-harvest procedures and how artificial lighting and carbon dioxide enrichment can help maximize production. We'll discuss the pros and cons of different grow sites and media, with extra emphasis on hydroponic production. In addition, the fundamentals of laws regulating cannabis production in the tri-state area will also be presented.

☞ Prerequisite: *Introduction to Plant Science* | \$195/\$215

6 Thursdays, 10/15–11/19, 6–8 pm
Matthew DeBacco | Online | 212HRT156AO

6 Tuesdays, 11/10–12/15, 6–8 pm
Matthew DeBacco | Online | 212HRT156BO

6 Wednesdays, 1/27–3/3, 6–8 pm
Matthew DeBacco | Online | 213HRT156CO

INTRODUCTION TO HYDROPONICS

Growing plants without soil using hydroponics promotes rapid growth and requires less water and space than conventional gardens. Learn what systems work best, which plants to choose, and how to ensure they get proper nutrition. While our focus is on home-scale systems, wider applications of hydroponics are also covered. | \$195/\$215

5 Tuesdays, 2/2–3/2, 6:15–8:15 pm
Maya Kutz & Kate Lodvikov | Online | 213HRT141O

CUT FLOWER FARMING

Design, plant, and harvest a cutting garden that's productive throughout the seasons. You'll get hands-on practice starting seeds to ensure you always have something fresh to cut. We'll cover traditional and unexpected annual and perennial cut flower species and varieties that grow well locally. | \$169/\$185

3 Thursdays, 2/11–2/25, 6:15–8:15 pm
Anne Marie Breyer | Online | 213HRT142BO

LATE SEASON PERENNIALS & GRASSES

TRACK 4

This course is designed for horticulturists and gardeners who are familiar with the basic culture of perennials. Learn the identifying characteristics, classification, scientific and common names, and landscape uses of approximately 60 summer- and fall-blooming native and non-native perennials and grasses. Please dress appropriately for outdoors. Blended class: online and on-site.  Prerequisite: *Intro to Plant Science* | \$295/\$325

3 Wednesdays, 9/23–10/14, 5:30–7:30 pm
& 3 Saturdays 9/26, 10/3, 10/17, 10am–12 pm
(no class 10/7 or 10/10)

Michael Hagen | NYBG & Online | 211HRT338ABL

4 Tuesdays, 9/29–10/20, 10 am †

Michael Ruggiero | NYBG & Online | 213HRT338BBL

DISEASE IDENTIFICATION & MANAGEMENT

TRACKS 1, 2, & 3

Learn common diseases of woody and herbaceous ornamentals and turfgrass, and the cultural, biological, and least-toxic strategies for their control. Blended: online and on-site.  Prerequisite: *Intro to Plant Science* | \$475/\$495

3 Sundays, 10/4–10/25, 10 am–1 pm
& 4 Thursdays, 10/8–10/29, 6:15–8:30 pm

Mark Kokinchak | NYBG & Online | 212HRT481ABL

**FALL TREES AND SHRUBS** TRACK 3

Explore how to identify and use shade trees and shrubs that are native to and thrive in our region, including *Acer*, *Quercus*, and *Viburnum*, which are particularly ornamental in fall. Blended class: online and on-site  Prerequisite: *Intro to Plant Science* \$295/\$325

5 Sundays, 10/4–11/8 (no class 10/12), 10 am †
Owen McLaughlin | NYBG & Online | 212HRT331CBL

5 Wednesdays, 10/14–11/4, 10 am †

Michael Ruggiero | NYBG & Online | 212HRT331BBL

**PLANTS FOR LANDSCAPING** TRACK 4

Choose the right plant for the right place, based on site-specific design and maintenance criteria. Learn landscape values such as size, texture, color, and flowering and fruiting seasons. Review trees, shrubs, groundcovers, annuals, and perennials suitable for this region. Blended class: online and on-site | \$395/\$435

6 Sundays, 10/4–11/15, (no class 10/11), 10 am †
Shauna Moore | NYBG & Online | 212HRT358ABL

6 Wednesdays, 10/14–12/2 (no class 11/11 or 11/25), 10 am †

Timothy Nolan | NYBG & Online | 212HRT358CBL

PLANT PROPAGATION I TRACK 1

Learn principles and techniques of plant propagation by seed and cuttings. Explore basic sexual and asexual propagation, focusing on fruit development, seedling production, root initiation, stem and leaf cuttings, and layering.

 Prerequisite: *Intro to Plant Science* (or Program Coordinator approval) | \$479/\$525

6 Sundays, 10/4–11/15 (no class 10/11),
10 am–1 pm

Nick Storrs | Online | 211HRT411PO

6 Saturdays, 1/23–3/6 (no class 2/13),
10:30 am–1:30 pm

Nick Storrs | Online | 213HRT411AO

6 Thursdays, 1/28–3/4, 10 am–1 pm

Michael Ruggiero | Online | 213HRT411BO

LANDSCAPE GARDENING TRACK 2

Learn the basics of ecologically-appropriate landscape gardening. Topics include soil preparation, efficient watering and fertilization, planting and transplanting, cultivation, and plant maintenance.  Prerequisites: *Intro to Plant Science* and *Soil Science I* | \$455/\$495

9 Thursdays, 9/24–11/19, 4:30 pm †

Mobee Weinstein | NYBG & Online | 211HRT311BL

WEED ID & MANAGEMENT TRACK 2

Examine a variety of methods, including herbicide and non-chemical, for controlling turf and landscape weeds found in residential and commercial sites. Study weed biology, biochemical pathways, equipment calibration and care, as well as seasonal weed control programs.  Prerequisite: *Intro to Plant Science* | \$355/\$395

5 Mondays, 10/5–11/16, 4:30–7:30 pm

Erica DeLuca | NYBG & Online | 212HRT482BLS

GREENHOUSE PRACTICES TRACK 1

This intro course covers practical greenhouse skills and integrated management techniques. Topics include structures and equipment, soils and other growing media, irrigation and fertilization, potting and repotting, and cultural practices.

 Prerequisites: *Intro to Plant Science* and *Soil Science I* | \$359/\$395

8 Thursdays, 10/15–12/10 (no class 11/26),
5–7:15 pm

Nick Gershberg | Online | 212HRT312PO

PRUNING PRINCIPLES AND PRACTICES

TRACKS 2 & 3

Through coursework and hands-on practice, develop pruning tools and techniques to help shrubs, conifers, broadleaves, evergreens, and deciduous plants thrive. Explore how woody plant structure and physiology influence pruning. Learn how to create and maintain hedges and explore authentic pollarding techniques. Come dressed for fieldwork, and bring bypass pruners if you have them. Fall classes to be blended: online and on-site.

📌 Prerequisite: *Intro to Plant Science* | \$385/\$425

6 Thursdays, 10/29–12/10 (no class 11/26), 2 pm †
Bill Logan | NYBG & Online | 212HRT321ABL

6 Tuesdays, 11/3–12/15 (no class 11/24) 10 am †
Bill Logan | NYBG & Online | 212HRT321BBL

6 Fridays, 1/22–2/26, 10 am †
Bill Logan | NYBG & Online | 213HRT321PBL

6 Saturdays, 1/23–3/6, (no class 2/13), 1 pm †
Samuel Bishop | NYBG & Online | 213HRT321CBL

6 Thursdays, 2/11–3/18, 10 am †
Bill Logan | NYBG & Online | 213HRT321DBL

BROADLEAVED EVERGREENS TRACK 4

Become familiar with the cultural requirements, identifying features, and uses of native and non-native broadleaved evergreens, and incorporate them into both naturalistic and formal landscape settings. Major plant groups studied include *Ilex*, *Rhododendron*, *Buxus*, and evergreen groundcovers. Blended class: online and on-site. 📌 Prerequisite: *Intro to Plant Science* | \$219/\$239

4 Sundays, 11/1–11/22, 10:30 am †
Vincent Simeone | NYBG & Online | 212HRT332BL

TREE MANAGEMENT TRACKS 2 & 3

Develop a holistic approach to keep trees healthy and vigorous. Topics include planting and transplanting, pruning, fertilization, root system management, common problems, tree defenses, and lightning protection. 📌 Prerequisites: *Pruning Principles and Practices* and *Soil Science II* | \$335/\$369

7 Wednesdays, 1/6–2/17, & Monday, 1/11, 1–3 pm
Wayne Cahilly | NYBG & Online | 213HRT422S

PLANT PROPAGATION II TRACK 1

Learn to work with plants that are difficult to propagate by seed or cuttings. Subjects include advanced seed propagation and techniques of grafting, budding, and micro-propagation. Learn tissue culture at NYBG's Pfizer Laboratory, and tour a retail nursery for a hands-on grafting project. 📌 Prerequisite: *Plant Propagation I* | \$425/\$469

4 Wednesdays, 1/27–2/17, 5:30–7:30 pm &
Sunday, 2/28, 10:30 am–2:30 pm
Mobe Weinsten | NYBG & Online | 213HRT412BL

BUSINESS PRACTICES FOR THE LANDSCAPE PROFESSIONAL TRACK 2

Explore how to effectively organize and operate a small landscape business that will sustain itself and earn a profit. We will discuss how to attract new clients, position oneself in a crowded market and choose the right type of business model. Gain experience in preparing proposals and contracts, pricing services and materials, and creating budgets. You will walk away from this class with a basic plan to guide you in creating a successful business. | \$295/\$305

6 Wednesdays, 10/7–11/18 (no class 11/11),
10:15 am–12:15 pm

Jessica Zavaglia | Online | 212LAN457AO

6 Thursdays, 2/25–4/1, 10:15 am–12:15 pm
Jessica Zavaglia | Online | 213LAN457BO

WINTER TREE IDENTIFICATION TRACK 3

Learn basic winter tree identification using dormant-season characteristics of deciduous plants as well as conifers. Dress for the weather. Blended class: online and on-site. 📌 Prerequisite: *Intro to Plant Science* | \$295/\$325

4 Thursdays, 1/14–2/4, 1 pm †
Bill Logan | NYBG & Online | 213HRT440BL

CHAINSAWS: USE, SAFETY, AND MAINTENANCE TRACK 3

Whether you are a budding arborist or weekend woodcutter, knowing how to use your chainsaw safely and maintain it properly are critical skills. An ISA-certified arborist teaches you the basics of chainsaw use and care, sharpening, and bar tensioning. No chainsaw will be handled in class. \$145/\$159

3 Sundays, 1/31–2/21, (no class 2/14),
10 am–12:10 pm
Julian Picciano | Online | 213HRT308O

ANNUAL AND PERENNIAL GARDEN MAINTENANCE TRACK 4

Manage annual and perennial gardens with a variety of practices: soil and weed management, watering, pest identification and control, and seasonal clean-up. Develop a management plan for a small perennial garden. 📌 Prerequisites: *Soil Science I* and *Plants for Landscaping or Late Season Perennials & Grasses* | \$195/\$215

4 Sundays, 1/24–2/21 (no class 2/14),
10 am–12 pm
Sean Tarantino | NYBG & Online | 213HRT344BL

CONIFERS TRACK 3

Learn to identify, classify, and use the best regional native and non-native conifers for naturalistic and formal landscape designs. 📌 Prerequisite: *Intro to Plant Science* | \$295/\$325

5 Wednesdays, 2/3–3/3, 2 pm †
Michael Ruggiero | NYBG & Online | 213HRT333BL

SUSTAINABLE GARDEN DESIGN TRACK 4

This studio-oriented course covers basic site analysis, planting plans, and color schemes (analogous or sequential, complementary, and monochrome). Presentations, discussions, and design projects combine practical information with theoretical garden design. 📌 Prerequisites: *Graphics I*, *Annuals, Spring Perennials*, and *Late Season Perennials & Grasses* | \$485/\$535

7 Mondays, 2/22–4/5, 6–8:50 pm
Marie Salembier | Online | 213HRT551O

LANDSCAPE MANAGEMENT TRACK 2

Examine sustainable techniques for managing and maintaining commercial and residential landscapes. Develop programs that reduce adverse effects on the environment, including alternative approaches to conventional lawn management. 📌 Prerequisites: *Intro to Plant Science* and *Soil Science II* | \$579/\$635

8 Thursdays, 2/25–4/15, 4:30–7:10 pm
David Laswell | NYBG & Online | 213HRT443BL

CERTIFICATION EXAM**30-HOUR PREPARATION FOR PESTICIDE APPLICATOR CERTIFICATION EXAMINATION**

Prepare for the Core (Basic) and Category 3 (Ornamentals and Turf) exams New York State Department of Environmental Conservation requires of all pesticide applicators. We'll cover handling, use, storage, and application of pesticides; safety and environmental considerations; and insects and diseases. You must purchase several manuals, and must have either three years of work experience or at least 30 hours of class instruction to be eligible to take these exams. DEC CEUs available. | \$715/\$785

7 Tuesdays & 6 Thursdays, 1/5–2/16
(no class 1/26), 4:15–6:45 pm
Shawn Spencer | NYBG & Online
213HRT357BLS

† The start time for all sections is as listed; end times vary. See website for the full schedule.

📅 Exam on last class date.

Horticultural Therapy



If you have a passion for plants and helping people, then pursue horticultural therapy and learn how to bring people and the natural environment together for healing purposes. Acquire the therapeutic skills and horticultural techniques needed to serve a broad population of people in need. Enroll in a single class or pursue a Horticultural Therapy Certificate.

THE CERTIFICATE PROGRAM

Respected nationwide, the NYBG Horticultural Therapy Certificate Program helps students begin or complement their careers through an in-depth exploration of skills and innovative methods that use plants and the growing environment to heal and rehabilitate people. Practicing horticultural therapists train students to design, implement, and operate programs for individuals and groups across a variety of health care settings and human services programs.

Upon completion of the program, students will:

- Understand the characteristics and etiologies of the various populations served by horticultural therapy.
- Demonstrate skills in goal setting, activity planning, risk management, evaluation methods, plant selection, and accessible design.
- Prepare proposals to deliver horticultural therapy programs in various venues, including public settings, not-for-profit organizations, private companies, and independent contracting services.

CERTIFICATE REQUIREMENTS

Certificate students must complete 189 course hours, 8 site visit hours, and a 100-hour internship. After completing a minimum of six Horticultural Therapy courses, students should contact the Program Coordinator to arrange their internship.

Course	Code	Hours	Page
Introduction to Horticultural Therapy	THR 301	15	27
Horticultural Therapy for Exceptional Youth	THR 402 P	15	27
Horticultural Therapy for Physical Rehabilitation	THR 403 P	15	27
Horticultural Therapy for Older Adults	THR 401 P	15	27
Fundamentals of Gardening	GAR 301	12	19
Horticultural Therapy in Behavioral Health Settings**	THR 404 P	15	—
Horticultural Therapy Methods and Materials**	THR 406 P	15	—
Activities Analysis for Horticultural Therapy	THR 407 P	15	27
Introduction to Plant Science	HRT 300	16	23
Plant Propagation I: Basic Principles	HRT 411 P	18	24
Garden Design for Special Populations	THR 408 P	15	27
Horticultural Therapy Program Management**	THR 409 P	15	—
Horticultural Therapy Site Visits (see note below)		8	—
TOTAL REQUIRED HOURS		189	

Site Visits—During the pandemic, we have suspended trips to observe working programs at hospitals and other institutions. Site visits remain a Certificate requirement, and we plan to resume scheduling them as soon as it is safe to do so.

**Courses offered in the Spring–Summer Catalog

P Courses with a prerequisite before you can register

Phyllis D'Amico, HTM, Program Coordinator

Anne Meore, HTR, Program Advisor

QUESTIONS? CONTACT PROGRAM COORDINATOR
PHYLLIS D'AMICO, HTM, AT THRCOORDINATOR@NYBG.ORG

COLLEGE CREDIT RECOMMENDATION

National College Credit Recommendation Service (NCCRS) recognizes the nine Horticultural Therapy courses to be the equivalent of college level instruction. In order to apply for one college credit hour per course, a passing grade of C or better is required. NYBG recommends you pass all 9 courses before applying for college credit, at which time you will pay a \$45 administrative fee to NYBG and a \$52 application & transcript fee to Excelsior. For more info, call the Registration Office at 718.817.8747.

The nine Horticultural Therapy courses are also accredited by the American Horticultural Therapy Association (AHTA) and can be applied toward voluntary Professional Registration through the AHTA. See p. 35 for more information.

INTRODUCTION TO HORTICULTURAL THERAPY

Explore the plant-people relationships and scientific research that are the foundations of horticultural therapy. Review current hort therapy programs, and the cognitive, physical, psychological, and social benefits of plants and plant-related activities for various populations. Build disability awareness and therapeutic skills. | \$375/\$415

3 Wednesdays and 3 Fridays, 10/7–10/23, 9–11:30 am

Anne Meore, HTR | Online | 212THR301AO

3 Saturdays, 1/9–1/30 (no class 1/16), 9–11:30 am &

3 Tuesdays, 1/12–1/26, 5–7:30 pm

Anne Meore, HTR | Online | 213THR301BO

HORTICULTURAL THERAPY FOR OLDER ADULTS

Older adults present an increasing need for therapeutic services. Learn the physical, sensory, cognitive, psychological, and social aspects of aging, and how horticulture can be an important component of geriatric care.

P Prerequisite: *Introduction to Horticultural Therapy* | \$419/\$459

4 Wednesdays & 2 Mondays, 9/16–10/7 (no class 9/28), 6:30–9 pm

Abby Jaroslow, HTR | Online | 211THR401O

HORTICULTURAL THERAPY FOR EXCEPTIONAL YOUTH

Gain insights into the causes and characteristics of developmental, sensory, physical, behavioral, and learning disabilities in children and adolescents with special needs. Learn to implement horticultural therapies that meet a range of goals in programs for preschool through high school. Explore brain-based research, and activities that can improve perceptual development and the learning process. **P** Prerequisite: *Introduction to Horticultural Therapy* | \$419/\$459

3 Tuesdays & 3 Thursdays, 10/13–10/29, 6–8:30 pm

Phyllis D'Amico, HTM | Online | 212THR402O

HORTICULTURAL THERAPY FOR PHYSICAL REHABILITATION

Sharpen your clinical skills while learning how horticultural therapy can enhance physical rehabilitation. Explore the team treatment process and the various conditions treated in this setting. Learn about etiology, diagnosis, and psychosocial effects, and the horticultural therapist's role in assessing, documenting, and developing treatment goals and objectives. Review case studies and develop treatment plans. **P** Prerequisite: *Introduction to Horticultural Therapy* | \$419/\$459

6 Saturdays, 11/7–12/19 (no class 11/28), 10 am–12:30 pm

Matthew Wichrowski, HTR | Online | 212THR403O

GARDEN DESIGN FOR SPECIAL POPULATIONS

Learn the latest research in therapeutic garden design, common design principles, and the issues and accommodations needed to create, renovate, and evaluate effective gardens for groups with special needs. **P** *Horticultural Therapy for Physical Rehabilitation*. | \$419/\$459

3 Mondays & 3 Wednesdays, 1/11–2/1 (no class 1/18), 5:30–8 pm

Nancy Minich, HTR, RLA | Online | 213THR408O

ACTIVITIES ANALYSIS FOR HORTICULTURAL THERAPY

Learn how to structure horticultural therapy activities so a client's progress can be clearly measured and assessed. You will develop a needs assessment and activity plan, write specific goals with measurable objectives, and practice leadership skills needed to work with groups and individuals. **P** Prerequisite: *Horticultural Therapy for Physical Rehabilitation* | \$419/\$459

3 Wednesdays, 2/17–3/3, 6:30–9 pm &

3 Saturdays, 2/20–3/6, 10 am–12:30 pm

Abby Jaroslow, HTR | Online | 213THR407O

Landscape Design



The need to develop, preserve, and protect our open spaces and environmental and cultural resources has never been greater. NYBG's engaging, career-oriented program gives you a solid, plant-focused foundation. Take a single class for pleasure or pursue a professional Certificate in Landscape Design.

THE CERTIFICATE PROGRAM

Whether you're changing careers or taking yours to the next level, the NYBG Landscape Design Certificate distinguishes your portfolio and showcases your development as a creative professional. And that puts you ahead—with colleagues, employers, and clients. Outstanding instructors who are working professionals guide you through a comprehensive program, where you will:

- Analyze existing landscapes, identify site-specific problems, and develop design solutions.
- Prepare planting plans that are practical, sustainable, and aesthetically pleasing for a variety of projects.
- Demonstrate skills associated with site engineering practices, principles, and techniques.
- Develop strategies for professional success using business skills in preparing proposals, pricing, purchasing, and more.

CERTIFICATE REQUIREMENTS

Course	Code	Hours	Page
TIER 1— Introductory Classes			
Landscape Design History	LAN 301	24	30
Graphics I	LAN 311	24	30
Landscape Measurement**	LAN 340	P 12	—
Landscape Plants: Fall Trees and Shrubs	HRT 331	P 12	24
Landscape Plants: Spring Trees and Shrubs**	HRT 334	P 12	—
Plants for Landscaping	HRT 358	16	24
TIER 2			
Landscape Design I: Site Analysis and Schematic Design	LAN 401	P 24	30
Landscape Design II: Design Development Estimating	LAN 402	P 24	30
Graphics II**	LAN 380	P 9	30
Site Materials and Details	LAN 411	P 24	—
	LAN 422	P 24	30
TIER 3			
Grading & Drainage	LAN 421	P 24	30
Graphics III	LAN 417	P 24	30
Landscape Design III: Planting Design	LAN 403	P 24	30
Business Practices for Landscape Professional	LAN 457	12	30
Landscape Design IV: Design and Construction**	LAN 520	P 33	—
Portfolio and Presentation Skills	LAN 555	P 15	30
TOTAL REQUIRED HOURS		337	

*Course hours do not include exam hours

**Courses offered in the Spring–Summer Catalog

P Courses with a prerequisite before you can register

For professional organizations, see p. 35.

QUESTIONS? CONTACT PROGRAM COORDINATOR SUSAN COHEN AT LANCOORDINATOR@NYBG.ORG

**STUDENT INFORMATION**

In addition to the course fees listed, students should anticipate spending approximately \$700 on class materials while completing their Certificate. Students should expect that homework will be assigned in most courses.

Whether you're changing careers or taking yours to the next level, the NYBG Landscape Design Certificate distinguishes your portfolio and showcases your development as a complete professional. Our curriculum, instructors, and influential alumni network make this the gold standard in Certificate programs. And that puts you ahead—with colleagues, employers, and clients.

INTRO TO LANDSCAPE DESIGN

Gain an introduction to the terminology, concepts, and basic principles of landscape design through lectures and simple two-dimensional exercises. This course is recommended for students with little or no background in design who are considering a Certificate. | \$185/\$205

4 Mondays, 10/19–11/9, 10 am †
Daryl Beyers | Online | 212LAN100AO

4 Saturdays, 11/14–12/12, (no class 11/28) 10 am–12 pm
Kimberly Tryba | Online | 212LAN100BO

4 Saturdays, 1/9–2/6 (no class 1/16), 10 am †
Daryl Beyers | Online | 213LAN100CO

4 Saturdays, 2/20–3/13, 10 am–12 pm
Kimberly Tryba | Online | 213LAN100DO

NEW! INTRO TO PHOTOSHOP FOR LANDSCAPE DESIGNERS

Now more than ever, clients expect to see beautiful digital plans. Learn the basics of how to scan and enhance hand drawings. Gain familiarity with the tools to create digitally rendered plans, sections, perspectives, and collages. Basic computer skills are a must. Please note: participants must have access to Adobe Photoshop. | \$295/\$325

6 Mondays, 10/19–11/23, 6:30–8:30 pm
Adam Molinski | Online | 212LAN444O

SOCIAL MEDIA STRATEGIES

Learn to develop and implement a Facebook, Instagram, Twitter, and Pinterest strategy to showcase your work and attract and engage followers. A smartphone with aforementioned apps pre-installed is required. \$115/\$129 *Certificate Requirement*

2 Sundays, 1/31 & 2/7, 11 am–1:30 pm
Candace Thompson | Online | 213BIL394O

BASIC WEBSITE DESIGN

A professional online presence is the key to growing your business. In this hands-on class, you will build a simple website (no coding required!) to showcase your portfolio using the free Wix.com platform and free online photo-editing tools. Internet proficiency necessary. | \$155/\$169 *Certificate Requirement*

3 Thursdays, 1/14–1/28, 5–7:20 pm
Candace Thompson | Online | 213BIL395O

DYNASCAPE: CAD FOR LANDSCAPE DESIGNERS

Learn the various tools and applications of this software package for landscape designers. Topics include: developing base plans from surveys, techniques for quick estimates, and utilizing the online plant database. Basic computer skills and PC laptop required. | \$555/\$609 (There is an additional software fee of \$125. Special cancellation policy applies.)

8 Fridays, 1/15–3/5, 10 am–1 pm
William Harris Einhorn, RLA | Online | 213LAN427O

NEW! GREEN ROOF DESIGN

Explore best practices for analyzing sites, balancing weight restrictions with programmatic goals, selecting resilient plant palettes, managing stormwater, and more. Propose your own original green-roof design as a final project. | \$325/\$365

6 Mondays, 9/21–11/2 (no class 10/12), 6–8 pm
David Holzman | Online | 211LAN461O

CONCEPTS: DIGITAL SKETCHING

Explore the Concepts app to create a 2-D landscape plan on your iPad or Surface Device. Learn to sketch directly on the screen, import and modify existing assets, produce a precise drawing to scale, and export your plan into hi-resolution formats that can be used in AutoCAD, Photoshop, or Adobe Illustrator. | \$155/\$169

3 Saturdays, 2/20–3/6, 10 am–1 pm
Cat Morris | Online | 213LAN2230

LANDSCAPE DESIGN HISTORY

This course is also required for the Horticulture Certificate TRACK 4.

Explore theories, traditions, and principles that have shaped of landscape design from antiquity to the present, through visual presentations, assigned readings, projects, and classroom discussion. \$595/\$655 *Certificate Requirement*

8 Wednesdays, 1/20–3/10, 9:30 am–12 pm
Marta McDowell | Online | 213LAN301FO

9 Tuesdays, 2/2–3/30, 10 am–1 pm
Paula Sarathy | Online | 213LAN301CO

9 Thursdays, 2/4–4/1, 6:15–9:15 pm
Mark Bunnell, RLA | Online | 213LAN301DO

GRAPHICS I

This course is also required for the Horticulture Certificate TRACK 4.

Graphics are essential in developing and communicating your ideas. Practice various graphic techniques on a range of materials and equipment and learn how to organize and render landscape plans on paper for optimal presentation to clients. Homework required. | \$595/\$655 *Certificate Requirement*

8 Mondays, 10/26–12/14, 6–9 pm
Elizabeth Poccia | Online | 212LAN3110

LANDSCAPE DESIGN I: SITE ANALYSIS AND SCHEMATIC DESIGN

Turning a vision into a plan is the designer's first challenge. Analyze landscapes, formulate the requirements of a design project and then translate them into schematic design solutions. Take part in class discussions and critiques, and present projects. Extensive out-of-class design homework required. **P** Prerequisite: *Landscape Design History* and *Graphics I* | \$575/\$635 *Certificate Requirement*

8 Mondays, 2/1–3/29 (no class 2/15), 6:15–9:15 pm
David Holzman | Online | 213LAN4010

LANDSCAPE DESIGN II: DESIGN DEVELOPMENT

Apply basic design to site-specific problems, focusing on the process of design development. Start with a concept, then progress through the schematic phase to a preliminary design solution. Examine the relationships of landscape elements and materials to the design process. **P** Prerequisite: *Landscape Design I* and *Graphics II* | \$575/\$635 *Certificate Requirement*

8 Wednesdays, 3/17–5/5, 6:15–9:15 pm
David McConnell | Online | 213LAN402AO

GRAPHICS III

Build and expand your graphic presentation skills to create professional presentations for clients with Trimble SketchUp, a 3D sketching software program. Laptop computers (PC or Mac) with SketchUp are required. **P** Prerequisite: *Graphics II* | \$595/\$655 *Certificate Requirement*

8 Thursdays, 10/1–11/19, 10 am–1 pm
William Harris Einhorn, RLA | Online | 212LAN4170

LANDSCAPE DESIGN III: PLANTING DESIGN

Through a series of design assignments, prepare a variety of planting plans that are practical, appropriate, and aesthetically satisfying. Explore the significance of site conditions as well as plant form, texture, color, and ecological associations. **P** Prerequisite: *Landscape Design II*, *Graphics III*, and *Plants for Landscaping*. Recommended: *Landscape Plants: Fall Trees and Shrubs* and *Landscape Plants: Spring Trees and Shrubs* | \$575/\$635 *Certificate Requirement*

8 Wednesdays, 1/13–3/3, 2–5 pm
Stacie Ellickson | Online | 213LAN4030

NEW! BUSINESS PRACTICES FOR THE LANDSCAPE PROFESSIONAL

Explore how to effectively organize and operate a small landscape business that will sustain itself and earn a profit. We will discuss how to attract new clients, position oneself in a crowded market and choose the right type of business model. Gain experience in preparing proposals and contracts, pricing services and materials, and creating budgets. You will walk away from this class with a basic plan to guide you in creating a successful business. | \$295/\$305

6 Wednesdays, 10/7–11/18 (no class 11/11), 10:15 am–12:15 pm
Jessica Zavaglia | Online | 212LAN457AO

6 Thursdays, 2/25–4/1, 10:15 am–12:15 pm
Jessica Zavaglia | Online | 213LAN457BO

GRADING & DRAINAGE

Through discussion, fieldwork and homework, students will identify landforms and watersheds, calculate slopes, and manipulate contours to create garden rooms and control water flow. Learn how to communicate design ideas to contractors and evaluate the opportunities and constraints of a project site. **P** Prerequisite: *Landscape Measurement*, *Landscape Design I*, and *Graphics II* | \$575/\$635 *Certificate Requirement*

5 Wednesdays, 10/14–11/11, 5:30–7:30 pm & 5 Fridays, 10/16–11/13 (Rain date 11/20), 10 am–1 pm
Alice Eckerson | NYBG & Online | 212LAN428ABL

SITE MATERIALS AND DETAILS

Learn the basic principles of constructing residential landscape features such as walks, steps, simple decks, garden structures, walls, and benches. Study landscape construction standards, techniques, and commonly used materials, and learn to draft construction details. **P** Prerequisite: *Graphics III* | \$575/\$635 *Certificate Requirement*

8 Tuesdays, 1/26–3/16, 10 am–1 pm
TBA | Online | 213LAN4220

ESTIMATING

Learn how accurately estimating landscape materials, labor, overhead, and contingencies can help you stay profitable and compete successfully in today's business climate. **P** Prerequisite: *Landscape Design II* | \$219/\$239 *Certificate Requirement*

4 Fridays, 1/15–2/5, 10 am–12:15 pm
Alice Eckerson | Online | 213LAN3800

PORTFOLIO AND PRESENTATION SKILLS

Create visually compelling print and digital portfolios to present to potential clients. Learn how to develop professional documentation for a variety of audiences through in-class design charrettes and individualized projects. **P** Prerequisite: *Landscape Design III* | \$379/\$415 *Certificate Requirement*

7 Tuesdays, 3/9–4/20, 6:30–8:40 pm
Adam Molinski | Online | 213LAN5550



Landscape Design Students & Alumni Series

Renowned professionals share their expertise in this popular afternoon lecture series that coincides with morning meetings of the Landscape Design Students and Alumni Association.

TUESDAYS, 1–2 PM | ONLINE

Registration fee for each lecture: \$15/\$18

Register for all six lectures and receive a discount: \$79/\$99

212LAN265GO

For more information about the LDSA, see p. 35.



CEUs are available.



Photo © David Culp

A TRANSPLANTED GARDENER

In 2015, renowned garden writer and designer **Page Dickey** moved from Duck Hill—the beloved 1830's North Salem farmhouse and 3-acre garden she'd owned and loving tended for 33 years—to an old church with 17 acres of fields and woods and a view of the Berkshire foothills. This move changed her as a gardener, as she fell in love with this wild land, becoming absorbed with being its steward. Dickey will share insights from her new book, *Uprooted: A Gardener Reflects on Beginning Again*, an endearing, humorous reflection on the challenges and joys of gardening—and transitions.

Author of nine books, Page Dickey serves on the Board of the Garden Conservancy, and was recently elected an Honorary Member of The Garden Club of America.

Tuesday, 10/20 | 1–2 pm | Online | 212LAN265AO

THE YEAR-ROUND GARDEN

Award-winning gardener-lecturer-naturalist **David Culp** has spent more than 30 years creating a four-season blooming habitat and sanctuary on two-acres of hillside nestled between forks of the Brandywine River. As in his latest book, *A Year at Brandywine Cottage*, Culp encourages us to choose plants for 12 months of interest, weave edibles into the mix, and bring the bounty indoors with simple arrangements and homegrown recipes.

Principal of David L. Culp Designs and owner of Brandywine Snowdrops, David Culp has received the Pennsylvania Horticultural Society's Distinguished Garden Award, and his *The Layered Garden* was named 2013's Best Overall Book by the Garden Writers Association.

Tuesday, 11/17 | 1–2 pm | Online
212LAN265BO

CULTIVATING A CREATIVE LIFE

Frances Palmer centers her creative life—and daily photo shoots—in an airy studio inside her Connecticut barn. The celebrated potter, gardener, cook and entrepreneur was trained as an art historian, but became obsessed with dahlias after spotting one in a gardening book. Today, growing all flowers is her passion, and they fill her extraordinary pots that have been featured in *The New York Times Magazine*, *Vogue*, *Elle Decor*, *Martha Stewart Living*, *Architectural Digest*, and scores of other publications. Drawing on insights from her debut book, *Life in the Studio: Inspiration and Lessons on Creativity*, Palmer focuses on what matter most: determination, routine, prioritization, perseverance, and perspective.

Tuesday, 12/15 | 1–2 pm | Online
212LAN265CO

FEDERAL TWIST

When **James Golden** set out to create a wet prairie in western Jersey, he faced heavy clay, standing water, and a derelict woodland. Eschewing traditional approaches, he planted right into the matrix of weedy invasives, without mulching, amending the soil, or spraying herbicide—unconventional methods Thomas Rainer and Claudia West call “a daring dance with nature.”

Today, Golden's acclaimed Federal Twist is a lush riot of hardy grasses and perennials given structure by tall, architectural plants, and has been profiled in *Gardens Illustrated*, *The New York Times*, *Rainer and West's Planting in a Post-Wild World*, Claire Takacs's *Dreamscapes*, and Christopher Wood's *Gardenlust*.

Tuesday, 1/26, 1–2 pm | Online | 213LAN265DO

AN EYE FOR DESIGN

Founding principal of Kathryn Herman Design in New Canaan, **Kathryn Herman** brings a strong horticultural background and intense interest in architecture to the international residential and commercial work that has garnered her firm recent Arthur Ross, Palladio, Stanford White, and Connecticut ASLA awards. Her own historic garden—reflecting her passion for classic British landscapes, with thematic plantings and a 114-foot-long garden room packed with perennials and backed by mature trees—has been included on the Garden Conservancy's Open Days and featured in *Architectural Digest*. In 2012, Herman was elected into the New England Design Hall of Fame for her contributions to landscape design.

Tuesday, 2/16, 1–2 pm | Online | 213LAN265EO

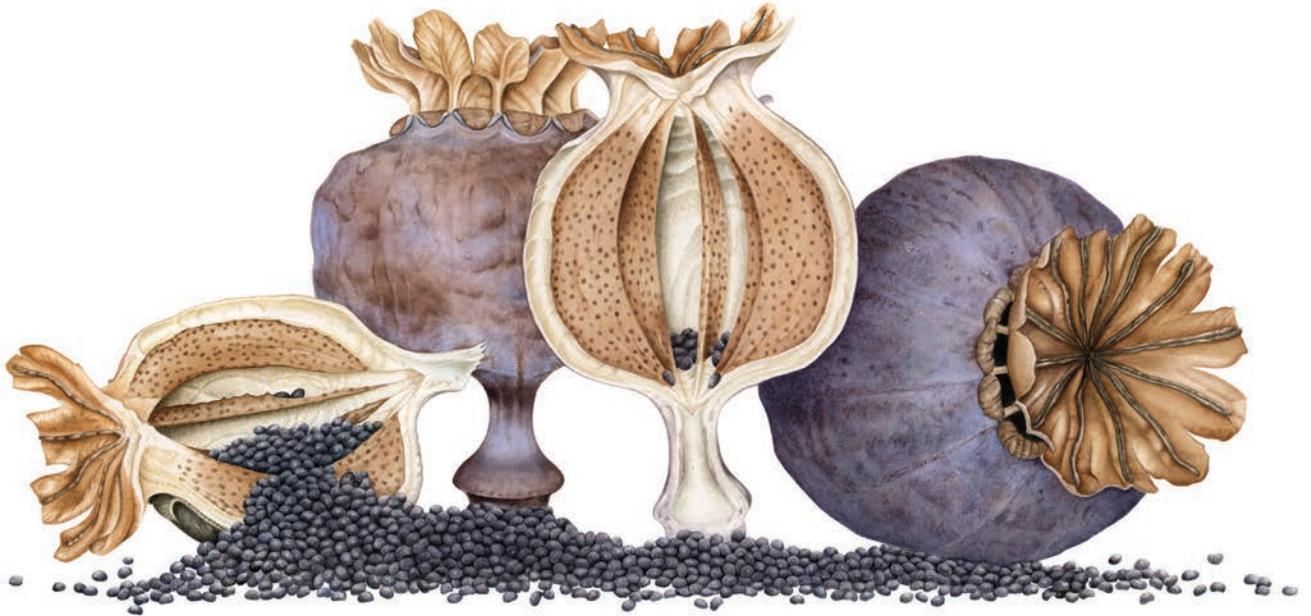
THE HEALING POWER OF NATURE AND DESIGN

Britt Zuckerman is Senior Landscape Architect at Dirtworks—a NY Landscape Architecture practice dedicated to creating spaces that bridge differences in age, ability, and culture through shared experiences and a close connection to nature. She will present recent Dirtworks projects, including their master plan for The Lakeshore Foundation in Birmingham, Alabama, an internationally renowned organization serving some 4,000 unique individuals annually through physical activity, sport, recreation, advocacy, policy, and research.

Zuckerman earned her Master's degree from Columbia University, and speaks regularly at venues such as AIA's New York Chapter, the NYC Parks Dept., The North Shore Garden Club, and on various conference panels.

Tuesday, 3/16, 1–2 pm | Online | 213LAN265FO

Urban Naturalist



In our teeming metropolis, nature is all around us in diverse habitats, from the cracks in our sidewalks to our parks and our beaches.

THE CERTIFICATE PROGRAM

The NYBG Urban Naturalist Certificate Program equips you with the skills you need to become an effective environmental steward. On the Garden grounds and in select city parks, you will learn to keenly observe the natural world, create scientifically useful records of your observations, and investigate the interrelationships between species. NYBG Urban Naturalists work as environmental educators, help manage invasive species in local parks, and volunteer with our EcoFlora project to help document NYC plant species.

To receive a Certificate, you must select a natural site, and after making in-depth observations there over many months, present a survey of the plants and animals found there and a plan for how the site can be improved to provide ecological and social benefits. Guidelines are available online.

- Poppyheads, *Papaver somniferum* 'Traseny mak', Watercolor on paper, ©Pavlina Kourkova

CERTIFICATE REQUIREMENTS

Course	Code	Hours	Page
Basic Plant ID	BOT 308	6	33
<i>Two of the four Native Flora courses:</i>		24	—
Native Flora in Autumn	BOT 331 P		33
Native Flora in Winter	BOT 332 P		33
Native Flora in Spring**	BOT 333 P		—
Native Flora in Summer**	BOT 334 P		—
Natural History of Birds	NAT 321	12	33
Natural History of Insects	NAT 322	9	33
Introduction to Urban Ecology	NAT 338	4	33
The Ecosystems of New York City **	NAT 337 P	6	—
Urban Ecology Field Study Workshop**	NAT 323 P	9	—
<i>Elective Credits (See current electives below)</i>		30	
TOTAL REQUIRED HOURS		100	

ELECTIVES

The following Naturalist courses—along with all Botany electives listed on pages 9–10 count toward the 30 required elective hours.

Course	Code	Hours	Page
Urban Flora: Growing Between the Cracks	NAT 332	6	33
Spotlight on Bird Songs	NAT 341	3	33

**Courses offered in the Spring-Summer Catalog

P Courses with a prerequisite before you can register

QUESTIONS? CONTACT PROGRAM COORDINATOR
NANCY SLOWIK AT NATCOORDINATOR@NYBG.ORG

BASIC PLANT ID

This is the class for plant-lovers eager to up their game! Learn the terminology and basic botanical nomenclature that will help you recognize and describe key differences in common plants. | \$145/\$159

3 Tuesdays, 10/6–10/20, 5–7 pm
Clara Holmes | Online | 212BOT308AO

3 Thursdays, 1/21–2/4, 6–8 pm
Clara Holmes | Online | 213BOT308BO

NATIVE FLORA IN AUTUMN

In autumn our native Northeast flora can be spectacular, but difficult to identify. With a 10X power hand lens and a plant key, you'll learn to identify these wildflowers, shrubs, and trees on the Garden grounds. Blended class: online and on-site.

📖 *Basic Plant ID or Plant Structure* | \$295/\$325
Certificate Requirement

5 Fridays, 9/25–10/23 (rain date: Saturday, 10/24)
9 am †

Nancy Slowik | NYBG & Online | 211BOT331BBL

NATURAL HISTORY OF BIRDS: FALL

With its wide variety of habitats and its position on the Atlantic Flyway, NYC is a bird-lover's paradise. Over 300 distinct resident or migratory species live here or pass through, including many nesting species such as Peregrine Falcons, Red-tailed Hawks, Yellow Warblers, and Baltimore Orioles. You will practice observing distinctive feather patterns, beak and body shapes, and evaluating songs and behaviors to improve your ability to identify species in the field and to use field guides effectively. We'll emphasize the role individual birds play in our ecosystem, while enjoying the unique nature of autumnal birding! \$295/\$325 *Certificate Requirement*

2 Tuesdays, 10/6 & 10/13 &
2 Thursdays, 10/8 & 10/15, 10 am–1 pm
Ken Chaya | Online | 212NAT321AO

NATURAL HISTORY OF INSECTS

Delve into the fascinating world of the creatures that make up 84% of the Animal Kingdom—what renowned biologist E.O. Wilson once called “the little things that run the world.” We'll discuss the critical and fascinating roles that insects play—in maintaining healthy ecosystems, as well as their own complex social systems. We will explore the wonder of metamorphosis and the amazing variety of defensive strategies and adaptations insects have developed to survive. Ample time will be spent on garden grounds, observing insects and learning how to identify them. | \$225/\$245 *Certificate Requirement*

3 Fridays, 10/2–10/16, 10 am–1 pm
Ken Chaya | Online | 212NAT322O

**SPOTLIGHT ON BIRD SONGS**

Did you know that Blue Jays can mimic the cry of a Red-tailed Hawk? Train your ear to find them as well as other talented mimics, comical improvisers, brilliant songsters, and heart-throb spring soloists. The vocalizations of our native birds are many and vary widely from soft chip notes to navigational flight calls, territorial declarations, and lovely courtship serenades—explore these distinctions during class. | \$95/\$105 *Certificate Elective*

Thursday, 10/29, 10 am–1 pm
Ken Chaya | Online | 212NAT341O

URBAN FLORA: GROWING BETWEEN THE CRACKS

Urban flora can be found in unlikely places, from city sidewalks and highway medians, to lawns and other man-made environments. Most of these plants are introduced and many are considered weeds. Explore their origins, life cycles, and benefits to the urban landscape while learning how to identify them in the field. | \$125/\$139 *Certificate Elective*

3 Thursdays, 10/22–11/5, 10 am–12 pm
Nancy Slowik | Online | 212NAT332O

NATIVE FLORA IN WINTER

In class and in forays around the Garden, you'll learn to recognize the winter characteristics of native and common woody plants by bud types, leaf scars, fruit remnants, and other distinguishing marks. 📖 *Basic Plant ID or Plant Structure* \$295/\$325 *Certificate Requirement*

6 Fridays, 1/8–2/12, 11 am–1 pm
Nancy Slowik | NYBG & Online | 213BOT332BL

INTRODUCTION TO URBAN ECOLOGY

Urbanization is changing biodiversity, interspecies relationships, and even animal behavior, in the tri-state area and beyond. Liz Johnson, former manager of AMNH's Metropolitan Biodiversity Program, will introduce you to the particular habitats found here, as well as plants and animals common to each. She'll also reveal why certain species of flora and fauna (like the new genus of centipede she and K. Catley discovered in Central Park!) thrive in our highly altered, fragmented urban environment, while others do not, and what this means for our collective future. | \$125/\$139 *Certificate Requirement*

2 Thursdays, 2/25 & 3/4, 10 am–12 pm
Liz Johnson | Online | 213NAT338O



The following
BOTANY courses
detailed on page
10 count toward your
**URBAN NATURALIST
CERTIFICATE:**

AUTUMN MUSHROOMS
**THE SCIENCE OF TREE
COMMUNICATION**
**PRESSING PLANTS FOR
ART & SCIENCE**
WINTER MUSHROOMS
FOREST ECOLOGY

Full descriptions can be
found online.

† The start time for all sections is as listed; end times vary.
See website for the full schedule.

Wellness

*Find new ways to bring
healthful plants into your
everyday life.*



TAI CHI FOR PEACE OF MIND AND BODY

This ancient, meditative Chinese exercise teaches relaxation, balance, and self-defense with an emphasis on correct body posture and spinal alignment. Students become relaxed, physically stronger, and ultimately healthier in both mind and body. Outside only. In the event of inclement weather, see website for details. | \$119/\$129

8 Saturdays, 9/26–11/21 (no class 10/10),
11:30–12:30 pm

Robert Torres | NYBG | 211WEL102B

8 Saturdays, 1/23–3/20 (no class 2/13), 10–11 am

Robert Torres | NYBG | 213WEL102B

ESSENTIAL OIL PERFUME WORKSHOP

Perfume can be traced back thousands of years to an Ancient Egyptian tradition, beloved by Cleopatra. Discover the history of perfume and the therapeutic benefits of essential oils in this hands-on workshop! Learn scent-blending techniques and how to identify and keep perfume notes. Formulate three unique signature scents using wax, carrier oils, and essential oils, and one solid perfume, a 2-oz. aromatherapy spray, and a roll-on perfume. Students are required to purchase materials from the list provided on our website. | \$59/\$65

Wednesday, 10/14, 6–8 pm

Karine Gordineer | Online | 212WEL134AO

Saturday, 2/27, 11 am–1 pm

Karine Gordineer | Online | 213WEL134BO

CANDLEMAKING WITH ESSENTIAL OILS

Freshen your home while experiencing the soothing benefits of essential oils. Herbalist Amandine Peter will demonstrate how to create custom-scented aromatherapy soy candles using essential oils to invigorate, calm, or heal. You'll also learn the differences between petroleum-based paraffin candles and synthetic essential oil candles commonly sold in stores. | \$45/\$49

Friday, 10/16, 6–8 pm

Amandine Peter | Online | 212WEL138AO

Sunday, 2/7, 11 am–1 pm

Amandine Peter | Online | 213WEL138BO

GUT HEALTH: THE KEY TO YOUR IMMUNE SYSTEM

Your digestive system is home to over 70% of your immune system! So keeping your gut in tip-top shape is crucial to maintaining good health. We will examine the difference between good and bad bacteria and explore how each affects your energy level, skin, and overall health. We'll focus on how to strengthen your digestion and create better eating habits, including by introducing fermented foods and herbal medicine into your diet. | \$45/\$49

Wednesday, 11/18, 7–8:30 pm

Cheryl Paswater | Online | 212WEL215AO

Friday, 1/15, 7–8:30 pm

Cheryl Paswater | Online | 213WEL215BO

WINTER SKINCARE

Cold weather and indoor heat can really take its toll on our skin. We will explore some of the best plant based ingredients for specific skin types, and how to combine them into beneficial, ultra-hydrating body care products. You will create your own customized winter skincare system, using ingredients you'll receive in a materials kit delivered to your home. | \$175/\$195

2 Sundays, 1/24 & 1/31, 11 am–1 pm

Elizabeth Scholl | Online | 213WEL168O

HERBALISM: BEYOND THE BASICS

Take a deep dive into a hands-on approach to herbal medicine. We'll cover the medicinal properties and uses of close to 100 local or easy-to-source healing plants, from nervines that calm to cardiotonics that stimulate circulation. Herbalist Karine Gordineer will show you how to properly infuse, blend, and decoct as you create your own herbal apothecary that will include teas, salves, tinctures, syrups, vinegars, compresses, and poultices. | \$425/\$469

4 Wednesdays, 1/27, 2/17, 3/17, & 4/14,
5:30–8:15 pm &

4 Saturdays, 1/30, 2/20, 3/20, & 4/17,
11 am–1:45 pm

Karine Gordineer | Online | 213WEL161O

MEDICAL CANNABIS

Some 33 states have legalized the medical use of marijuana. Proponents tout it as a safe, effective treatment for symptoms of cancer, HIV, MS, Parkinson's, and other conditions—while opponents see many physical and social risks. Explore the science behind this controversial plant, as Dr. Dahmer takes you through a brief history of the endocannabinoid system, its effects on the brain, its associated risks and disorders, and an overview of medical cannabis—today and in the future—in New York and across the country. | \$35/\$39

Friday, 1/22, 6:30–8 pm

Stephen Dahmer, M.D. | Online | 213WEL128O

NATURAL BODY SCRUB

Explore the versatile and surprisingly low-cost array of body scrubs you can make with a few simple ingredients. Learn which oils are the most emollient, which botanicals tighten and which soothe inflammations, and when to choose which specific sugar or salt for your exfoliant. | \$45/\$49

Friday, 1/29, 6–8 pm

Amandine Peter | Online | 213WEL156O



Saturday Online Herbal Workshops

Saturdays, January 9, 23, & February 6

Herbs have been helping us stay healthy for thousands of years. Spend some time with herbal experts and learn how plants can be used for medicine, aroma, and refreshment.

INTRO TO HERBAL MEDICINE

Are you interested in bringing the natural benefits of herbs and herbal remedies into your life? Discover the differences between herbal medicine and homeopathy, the three major branches of herbalism, and the fascinating history of herbal medicine. Learn how to choose and store herbs, how to properly take herbal medicines, and how to make and use several common herbal remedies that help reduce stress.

January 9, 10:30 am–12:30 pm
Karine Gordineer | \$39/\$45 | 213WEL130BO

KITCHEN HERB GARDEN

No more shopping at the market for basil and parsley! Learn how to create your own kitchen mini-garden with fresh herbs that you can enjoy year-round. Find out which herbs are easiest to maintain, which grow lights to use, and all the tips and tricks for growing herbs and spices indoors.

January 23, 10:30 am–12 pm
Christopher Satch | \$39/\$45 | 213WEL130CO

HERBAL TEAS & INFUSIONS

Herbal healing can be as simple as a cup of tea! We'll dive into the medicinal qualities and uses of easy-to-find herbs, and how to combine their roots, leaves, flowers, fruit, and seeds into effective, pleasing blends.

February 6, 10:30–11:30 am
Arvolyn Hill | \$25/\$29 | 213WEL130DO

All three sections: \$99/\$119 | 213WEL130AO

Continuing Education Units, Professional Societies, & Academic Programs

Continuing Education Units (CEUs)

APLD and ASLA Members: Don't miss out! Get CEUs for many of our lectures. Events offering CEUs are noted in the catalog or on the individual event listing pages at nybg.org/adulted with your organization's logo.

The New York Botanical Garden & Bronx Community College Associate Degree Program

NYBG and Bronx Community College of The City University of New York offer an Associate Degree program. The first year of the program is offered at BCC where students take academic courses. The second year is spent at NYBG, where students take academic courses and work in horticulture. For more information, contact NYBG at 718.817.8747 or Adijat Adebola at adijat.adebola@bcc.cuny.edu or 718.289.5538.

Tri-State Botanical Artists of NYBG (TSBA)

TSBA is a lively group more than 90 artists who meet to engage in critiques, monthly art challenges, a sketchbook exchange, and topical discussions. We invite all current Certificate students and alumni to join us! TSBA is recognized as an ASBA Circle. Please contact Jeanne Reiner reinerj@hotmail.com or Susan Sapanara ssapanara@gmail.com for more information.

Landscape Design Students and Alumni Association (LDSA)

LDSA encourages a dynamic exchange of information among students, faculty, and alumni. It provides networking opportunities, as well as an indispensable Q&A service via a Yahoo Group available to all members. Monthly meetings feature guest speakers and informal design critiques, and are focused on topics that extend beyond the classroom into the professional arena. All students and alumni in Landscape Design, Horticulture, and Gardening are invited to attend. Call Elaine Yellen at 914.723.4090 for details.

American Horticultural Therapy Association (AHTA)

The AHTA promotes the development of horticultural therapy programming throughout the United States. Their mission is to help the profession gain visibility. The AHTA also administers a voluntary professional registration program that lists accredited horticultural therapists. For more information visit ahta.org

American Society of Botanical Artists (ASBA)

ASBA is a non-profit organization of more than 1,300 members throughout the US and in 20 other countries. Dedicated to promoting awareness of contemporary botanical art, ASBA provides educational opportunities through its annual conference and quarterly journal, *The Botanical Artist*. ASBA maintains their headquarters at NYBG on the third floor of the Watson Education Building. ASBA brings the best of contemporary botanical art to the public by curating the NYBG Triennial and other exhibitions. For information visit asba-art.org

Association of Professional Landscape Designers (APLD)

The APLD advances landscape design as a career and promotes the recognition of landscape designers as qualified professionals. It has established a set of rigorous standards that must be met to become certified. Student memberships are available for those actively enrolled in a landscape design or horticulture program. For more information visit apld.org

Department of Environmental Conservation (DEC)

The New York State Department of Environmental Conservation (DEC) requires commercial pesticide applicators to take a 30-hour course such as Preparation for Pesticide Applicator Certification Examination (HRT 357) offered at the Garden, and pass a State-administered exam. Applicators must periodically apply for recertification and must complete a number of courses that the DEC and the New Jersey State Department of Environmental Protection (DEP) have approved for recertification credit.

The Guild of Natural Science Illustrators (GNSI)

The Guild is an international organization whose members strive to maintain and further the field, assist others in entering it, and encourage high standards of competence. For more information visit gnsi.org

International Society of Arboriculture (ISA)

ISA is a worldwide network of professional arborists who foster a greater awareness of the benefits of trees, and promote the professional practice of arboriculture. For more information visit isa-arbor.com



NYBG SCHOOL OF PROFESSIONAL HORTICULTURE

NYBG's School of Professional Horticulture offers a comprehensive, full-time, two-year program combining hands-on training with academic study to educate and prepare you to become a skilled professional horticulturist. With a nearly 100% job placement rate, alumni have successful careers in public and private sectors, including estate management, landscape design/build firms, and public parks and gardens.

The School is nationally accredited by ACCET and licensed by the New York State Education Department. Federal financial aid is available to qualified students.

For a catalog, visit nybg.org/edu/soph or call 718.817.8797.

Academic Policies & Procedures

COURSE LEVELS

- 100–299 Short, non-credit courses
- 300–399 Basic (may have prerequisites)
- 400–499 Intermediate (may have prerequisites)
- 500–599 Advanced (may have prerequisites)
- 600–699 Classes with a Master
- 700–799 Symposia
- 800–899 Lectures
- 900–949 One-day, hands-on workshops
- 950–999 Intensive Programs

COURSES WITH PREREQUISITES

In order to register for courses with prerequisites, students must have received a passing grade in the prerequisite course(s).

WORK-STUDY OPPORTUNITIES

For information about work-study opportunities with Adult Education, please call 718.817.8802.

SCHOOL POLICIES FOR CERTIFICATE PROGRAMS

The Director and Program Coordinators formulate policy regarding standards of student performance, including awarding Certificates, rules of conduct, and student appeals. Please contact the Director with any questions or concerns at 718.817.8595.

Satisfactory Academic Progress Policy:

Student progress is measured by grades for Certificate courses, while Non-Certificate courses are not graded.

Grade	GPA	Percentile
A	4.0	94-100
A-	3.7	90-93
B+	3.3	87-89
B	3.0	83-86
B-	2.7	80-82
C+	2.3	77-79
C	2.0	73-76
C-	1.7	70-72
D+	1.3	67-69
D	1.0	60-66
F	0	0-59
NC	0	NO CREDIT

All coursework (final exams, papers, projects) must be completed on time unless the instructor grants additional time for extenuating circumstances.

Grades are available via your online student account. Call 718.817.8720 for help creating an online account, to receive grades over the phone, or request a transcript.

All incomplete grades will be converted to an F within 4 weeks if work is not completed by then. A student must repeat a course and earn a passing grade in order to receive a Certificate; additional course materials will be charged at cost.

Previous Education Credit

A student may qualify for course exemption through:

- College courses taken for degree credit from an accredited college or university
- Evaluated non-collegiate sponsored instruction
- Proficiency exams

To be exempt from a required course, you must complete the Course Exemption Request Form, present transcripts showing an earned grade of C or higher, and present the course outline and/or relevant supporting documentation. The School will evaluate these submissions and make a decision. If exempted from the course, you must take an equal number of hours of approved elective course(s).

Attendance

On-time attendance is required at all classes. Unexcused tardiness and absences are not accepted, unless due to an emergency, including serious illness or death within a student's family. Absences should be reported to the Registration Office at 718.817.8720 and will be evaluated on a case-by-case basis. Students must request makeup tests, which will be scheduled at the instructor's discretion. Deficiency in any required work resulting from absence from class must be made up at the student's own expense to satisfy the instructor.

Student Work

Students have 8 weeks following the last day of class to pick up any work left by instructors at the Registration Office. After that time, unclaimed assignments will be discarded.

Certificate Requirements

Certificate requirements are those stated in the catalog from which the student first registered for a Certificate course.

To qualify for a Certificate, students must receive passing grades in all required courses.

Students have 6 years from the start of their first required course to complete a Certificate.

Certificate Graduation Ceremony

The 2021 ceremony will be held on Sunday, June 6. If you expect to complete your Certificate requirements or enroll in all remaining classes by June this year, you must inform the Manager of Student Services in writing at adultedgraduation@nybg.org by March 27. You will be informed if you are eligible for a Certificate by April 19. Call the Registration Office at 718.817.8747 with any questions.

Transcripts

Official (\$4 each) and unofficial transcripts (free) are available from the Registration Office. Request an official transcript in writing, including the name and address of the institution to which the transcript should be mailed. Transcripts will be mailed within 2 weeks, with a copy sent to the student.

Privacy

The School of Horticulture and Landscape Design complies with the Federal Education Rights and Privacy Act of 1974. The following categories of information concerning individual students and former students may be made available to the general public: name, attendance dates, telephone listing, date and place of birth, field of study, and previous education institutions attended by the student. Students may request that any of the above information not be released without their prior consent.

STATE LICENSING AND ACCREDITATION

The School of Horticulture and Landscape Design—which includes three programs: Horticulture, Horticultural Therapy, and Landscape Design—is licensed with the New York State Bureau of Proprietary School Supervision (BPSS), a division of the New York State Department of Education. Licensure under the state recognizes the Certificate Programs in Horticulture, Horticultural Therapy, and Landscape Design as high quality and career oriented.

Students of Licensed Private Schools in the State of New York have the right to file a complaint with the New York State Education Department if they believe that the School or anyone representing the School has acted unlawfully. Students may make complaints about the conduct of the school, advertising, standards and methods of instruction, equipment, facilities, qualifications of teaching and management personnel, enrollment agreement, methods of collecting tuition, School license or registration, School and student records, private School agents, and other charges.

To file a complaint, students should write to the New York State Education Department's Bureau of Proprietary School Supervision at 116 West 32nd Street, 5th Floor, New York, NY 10001, or call the Department at 212.643.4760, requesting an interview for the purpose of filing a written complaint. All relevant documents must be brought to the interview. If you cannot attend an interview, send a letter or call the Bureau to request a complaint form. You must complete and sign the form and mail it to the Bureau, including copies of all relevant documents. The Bureau cannot investigate any complaint made more than 2 years after the date of alleged occurrence.

Disclaimer

Content of courses and opinions expressed by instructors are their own and do not necessarily reflect the opinions or views of The New York Botanical Garden. The information provided does not, and is not intended to, constitute legal advice. No representation is made that any information provided constitutes the most up-to-date legal or other information.

Registration & General Information

Registration

The quickest way to register for a class is to visit nybg.org/adulted

Many classes fill quickly, so please sign up early to avoid disappointment!

Confirmations

Registration confirmations will be sent same day via email.

Entrance to the Garden on Class Days

You must bring your printed confirmation letter for admission to the Garden, and present it at the Mosholu Entrance to gain admittance and free parking.

Storm Closings

Class cancellations due to inclement weather will be rescheduled.

Refunds and Withdrawals

No discounts will be granted for missed classes. There are no refunds or credits 24 hours before a course begins.

A refund will be issued if your class is cancelled due to low enrollment. If you wish to withdraw from a course before it begins, you must notify the Registration Office **ten full business days before the first class meeting**. We will issue a refund minus a \$10 processing fee.

- *If you must withdraw fewer than ten days before the first class meeting:*
- *No refunds will be granted for course levels 0–299 and 700–999*
- *A 75% refund minus a \$10 processing fee will be granted for course levels 300–699. Please note: Floral Design materials fees will not be refunded fewer than 5 business days before class begins.*

Holidays

NYBG observes the following 10 holidays:

New Year's Day; Martin Luther King, Jr. Day; Presidents' Day; Memorial Day; Independence Day; Labor Day; Columbus Day; Thanksgiving and the following Friday (Veterans' Day observance); and Christmas

Accessibility

NYBG is accessible to persons with disabilities. Please ask about special needs accommodations when you register or visit nybg.org for more information.

A WORD ON ONLINE CLASSES

The confirmation email you receive upon registration includes the Zoom link for your class. A reminder email with the meeting link will also be sent the day before the class begins.

Please do not wait to register, as our most popular classes fill up quickly. We do, however, try to open additional sections of sold out classes whenever possible, so add your name to the wait list to help us determine interest. You'll receive notice of priority registration when new classes are added. And keep an eye out for Adult Ed e-newsletters with the latest updates on new classes, sections and speakers.

A WORD ON BLENDED COURSES

Blended courses mean that instruction takes place both online via Zoom and in-person. The in-person instruction takes place entirely outside on NYBG grounds, rain or shine. We believe this is essential for horticulture, botany, and naturalist students to become proficient at identifying plants and understanding their culture, ecology, and maintenance requirements.

Safety remains our top priority. Everyone on Garden grounds is required to wear a face covering and maintain six feet of social distance at all times. Registered students will have the option to download an app and use personal headphones with your own device to ensure you hear the instructor clearly. Operating system requirements: *Android 5 OS or higher; iPhone iOS 10 or higher.*

Garden Membership

Become a Member today and receive year-round admission, access to Garden programs, discounts at NYBG Shop and on Adult Education classes, and exclusive invitations to special Member Days, Trips, Tours, and Programs. For more information, call 718.817.8703 or visit nybg.org/membership

Registration is Easy!

Web

Register online at nybg.org/adulted

Phone

718.817.8720 Registration Office
M–F 9 am–5 pm

The Garden | Quick and easy to reach:

Bronx River Parkway (Exit 7W)

 Metro-North Railroad to
Botanical Garden Station



Midtown Education Center

Two blocks from Grand Central Terminal

20 West 44th Street, between 5th and 6th Avenues

The Midtown Education Center is currently closed.



Gift Card

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- Portuguese Quince, *Cydonia oblongata* 'Portugal', Colored pencil on paper, ©Margaret Best

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