

NYBG

ADULT EDUCATION | FALL 2022—WINTER 2023



NEW YORK BOTANICAL GARDEN

Welcome

Fall—a time to plant bulbs, allowing roots to develop and settle into the soil, establishing a foundation during the colder winter months so that everything is ready to bloom come spring.

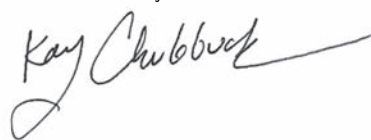
This season takes on a similar trajectory for those of us who care for and tend to green spaces. As we approach the end of the year, we assess lessons learned while exploring new areas for growth and development.

We hope our Fall–Winter Catalog gives you this chance to grow!

With a full slate of online and in-person classes in botanical art, floral design, horticulture, gardening, landscape design, botany, and more, this catalog offers opportunities for everyone—beginner or expert, career changer or established professional—to discover a new passion, hone a skill, or develop a new credential through our Certificate Programs.

As many classes fill quickly, please register soon. And keep an eye out for Adult Ed monthly newsletters with updates on new classes, lectures, and other interesting NYBG programming curated by our expert staff in partnership with talented instructors who are leaders in their fields.

Each new season brings exciting change. As the newly appointed NYBG Vice President for Education, I am looking forward to meeting you—whether online or in the classroom at the Watson Education Building, at our Midtown Education Center, or out exploring our extraordinary 250 acres at NYBG.



Kay Chubbuck

Vice President for Education

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ABOUT THE COVER: Every year dozens of plein-air artists spread out across Garden grounds to capture familiar scenes in a new light. The work, all completed in one day, is featured on our cover and throughout this catalog. Plan to join us for NYBG's Sixth Annual Plein-Air Invitational in spring 2023.

Front Cover: ©Jared Cullum, *LuEsther T. Mertz Library*, Watercolor

Back Cover: ©Jeanette L. Gurney, *Wandering Sketcher below Daffodil Hill*, Technical pen

CLIMATE WEEK 2022 SYMPOSIUM

Thursday, September 22, 9–11:30 am

As leaders from around the world convene in New York City for Climate Week, NYBG will host a symposium to investigate new trends in climate science, why forests are crucial in mitigating climate change, and what individuals can do to make a difference. The keynote address, *Why Climate Change Matters to You and What You Can Do About It*, will be given by Katharine Hayhoe, Ph.D., followed by *Forests: A Force for Change*, a panel of five distinguished experts—from advocates to scientists and forest managers.

Katharine Hayhoe, Ph.D., Cristián Samper, Ph.D., Josefina Braña Varela, Lúcia Lohmann, Ph.D., Douglas C. Daly, Ph.D., Eliot Nagele
Ross Hall | 231BOT818 | \$32/\$35



©Courtesy of the Ikebana International New York Chapter

Floral Design Showcase:

The Art of Ikenobo Ikebana

Join us for this rare opportunity to discover the beauty and philosophy of *Ikenobo Ikebana*, an elegant floral art form with roots in 15th-century Japan, that tells stories of the ever-changing beauty of life and nature. Ikebana master Professor **Joseph Lam**—who holds the highest possible Ikenobo ranking (*Sokatoku rank 18*)—will design an array of arrangements with flowers and branches chosen at the last minute to demonstrate how the language of *Ikenobo Ikebana* has evolved from classical to modern times.

This program is a collaboration with Ikebana International New York Chapter.

Thursday, October 6, 11 am–1 pm
Ross Hall | 232FDN618 | \$29/\$35

Native Food Sovereignty

“As a community, we have the power to choose the food on our table.”



Native nutrition educator Valerie Segrest is dedicated to making sure tribal communities throughout North America can access traditional foods. In this inspiring talk, she discusses the many food sovereignty initiatives spearheaded by Indigenous peoples of the Pacific Northwest and beyond, including regaining legal control of ancestral lands, organizing harvest and berry festivals, and offering workshops on elk-processing, salmon-filleting, and other traditional food preparation techniques.

An enrolled member of the Muckleshoot Indian Tribe, **Valerie Segrest** is the co-founder of Tahoma Peak Solutions, which specializes in strategic communications and food systems strategies that serve tribal communities. As a Native nutrition educator, Segrest raises awareness and helps identify and overcome barriers so Indigenous peoples are able to access traditional foods. Segrest co-authored *Feeding Seven Generations* and *Indigenous Home Cooking*.

Thursday, February 9 | Online | 233BOT8090 | \$15/\$18



©Ricardo Carliota

Interior Plant Styling with Maryah Greene

Noting the number of urban dwellers who want more plants in their lives but don't have green thumbs yet, plant consultant and former elementary educator **Maryah Greene** stepped up to provide support so these new plant parents can create functional, long-term

green spaces of their own. She'll share how she turned an Instagram account full of plant care tips and tricks into Greene Piece, a Brooklyn-based business that provides individualized repotting workshops, plant problem diagnosis, full-service interior plant design, and more. Join us to hear Greene's success stories from the field that have been profiled in *The New York Times*, *Architectural Digest*, *Vogue*, and more.

Thursday, March 23 | 6:30–7:30 pm | Online | 233GAR8220 | \$15/\$18

24th Annual Landscape Design Portfolios Lecture Series

INNOVATION AND ENGAGEMENT: LANDSCAPE AS CATALYST

These innovative and much-honored landscape architects discuss their signature projects, unique working methods, and design philosophies—while sharing transformative stories of people and places. For these designers, a respect for history informs and inspires the creative process.

**3 Mondays,
October 3, October 17,
& November 7,
6:30–7:30 pm**



At a Crossroads: Socially Just Landscapes

From her office in New York's Brooklyn Naval Yard, Elizabeth Kennedy leads EKLA PLLC, a collaborative, interdisciplinary social justice practice noted for excellence in

innovative landscape preservation, development, and management. For Kennedy, design inspiration can come from anywhere—even the quality of light and shade. Kennedy's talk will illustrate how her projects—including the Weeksville Heritage Center in Brooklyn, the African Burial Ground National Monument in Lower Manhattan, the Inwood Sacred Site, the Peninsula Live-Work Campus in the Bronx, and Buffalo's Michigan Street African American Heritage Corridor—exemplify landscape architecture's potential to afford a broader understanding of place and identity.

The daughter of an architect, **Elizabeth Kennedy, FASLA**, knew at 14 that she wanted to be a landscape architect. She studied landscape architecture at Cornell University and founded her own firm in 1994, with the goal of collaborating with mission-driven non-profit organizations to serve communities. Much honored for her distinguished work in sustainability, Kennedy is an ASLA Fellow and the recipient of 2022's prestigious Annual Landscape Architecture Foundation Medal.

October 3 | Online | 232LAN801BO



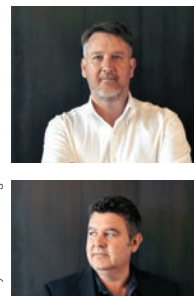
Troubled Beauty: A Manifesto for Ugly Duckling Landscapes

Known for her innovative approaches to design and regeneration of toxic industrial sites and degraded urban landscapes, Julie Bargmann turns

“ugly duckling” sites into swans. Her process begins with site forensics—finding the stories of place and then surmounting innumerable obstacles with her unique blend of fearlessness, experimentation, common sense and restraint in order to produce award-winning work. She will discuss a community-based reclamation project of an abandoned coal works; a corporate campus refashioned within an abandoned Navy yard; an obsolete water supply station reinterpreted for a small private garden; and a privately funded public park offered as a sign of optimism in a disinvested Detroit neighborhood.

Julie Bargmann is the Founder and Principal of D.I.R.T. Studio and a Professor Emerita at the University of Virginia Department of Landscape Architecture. She is the Inaugural Laureate of the 2021 Cornelia Hahn Oberlander International Landscape Architecture Prize and a Fellow of the American Academy in Rome. Bargmann received a Bachelor of Fine Arts in Sculpture from Carnegie Mellon and a MLA from Harvard's Graduate School of Design.

October 17 | Online | 232LAN801CO



Supergreen: Gardens, Placemaking, and Infrastructure

Roderick Wyllie and James A. Lord, founding partners of Surfacedesign, a San Francisco-based landscape architecture studio, challenge conventional approaches

to design by asking novel questions and listening to a site and its users. By doing so, Wyllie and Lord focus on cultivating a sense of connection between the built and the natural world, inviting people to engage with the landscape in new ways. Together, the two landscape architects will present work that ranges in location and scale, from civic projects to intimate residential gardens, including Auckland International Airport in New Zealand; the 40-acre Expedia headquarters site on Seattle's waterfront; Uber's headquarters in San Francisco that includes a public park; and Oliveto, a private residence in Northern California.

Roderick Wyllie, FASLA, and James A. Lord, FASLA, along with partner Geoff di Girolamo, have established Surfacedesign as an international leader in landscape architecture, urban design, and sustainability. Alumni of Harvard's Graduate School of Design, both are ASLA Fellows. For the consistent excellence of their built designs, they were honored with the 2017 Cooper Hewitt Design Award.

November 7 | Online | 232LAN801DO



Registration fee for each lecture: \$32/\$35. Register for the series and receive a discount: 232LAN801AO | \$85/\$95

SUSAN COHEN, FASLA, RLA, COORDINATOR OF THE LANDSCAPE DESIGN PROGRAM, ORGANIZED THIS SERIES. SUPPORT GENEROUSLY PROVIDED BY THE HEIMBOLD FAMILY.



23rd Annual Winter Lecture Series

FOSTERING ENVIRONMENTAL EMPATHY

Three extraordinary speakers explore how immersive, responsive garden design can change how people interact with nature and foster a sense of individual responsibility to protect our shared natural world.

**3 Thursdays, January 26, February 23,
March 30, 11 am–12 pm**



A Quest to Save the Planet Through Design

How can we elevate design to save the planet? In this lushly illustrated talk, award-winning landscape architect Kona Gray, FASLA, PLA, discusses how his projects answer

this question. He will share how his landscapes center ecological sensitivity and cultural inclusivity, from Etéreo, an ecolodge nestled in the pygmy mangroves of Mexico's Yucatan Peninsula, to River Park Center, an urban green space in Miami-Dade County. Draw inspiration for how to reconnect ourselves and our communities more deeply to the outdoors, and how that connection will develop environmental empathy and foster a shared sense of responsibility for our planet.

Principal of EDSA **Kona A. Gray, FASLA, PLA**, has 28 years of experience creating award-winning spaces that reinvigorate imaginations, solve meaningful global issues, and promote community in diverse neighborhoods in more than 30 countries. Gray is a Fellow of the American Society of Landscape Architects (ASLA), a member of the Landscape Architecture Accreditation Board, and a leader of a wide variety of DEI initiatives in landscape architecture organizations and universities.

January 26 | Ross Hall | 233GAR801B



©Estudio Ome
©Diego Padilla Magallanes



An Ode to the Land

Susana Rojas Saviñón and Hortense Blanchard share what makes their Mexico City practice unique, including their use of aromatic, edible, medicinal, and native Mexican plants, some of which they propagate from wild seeds they collect. The pair will

discuss their award-winning Forest Garden, a residential landscape located within an ecological reserve that features a vegetable garden, natural pool, and fern garden. They will also provide a look at Lava Garden, which turned a lawn-covered suburban backyard into a lush oasis that realigns the garden with the land's original volcanic ecology and the house's mid-century modernist architecture.

Led by **Susana Rojas Saviñón** and **Hortense Blanchard**, Estudio Ome designs gardens that strike the perfect balance between what is built and what is alive. The recipient of Mexico's 2020 Young Creators Grant and Professor at Mexico City's Universidad Iberoamericana, Rojas Saviñón holds a MPhil in Architecture and Urban Design. A French landscape architect, Blanchard previously worked for Dan Pearson, Rozana Montiel, and Irène Djao Rakitine.

February 23 | Online | 233GAR801CO



©Christa Holka
©Harris Bugg Studio



Respecting the Spirit of Place

Dubbed "pioneering design talents of their generation" by the Royal Horticultural Society, Charlotte Harris and Hugo Bugg believe both the landscapes they design and the business they run must be respectful, inclusive,

and ethically responsible. The duo will highlight their progressive ethos as they discuss Kitchen Garden at RHS Bridgewater, which includes an edible forest garden, a classic kitchen garden, and an apothecary/herbal garden, all situated amid the stunning historic walls of a previously derelict site. They will also provide a rare glimpse into the series of productive, traditional, and experimental garden rooms they designed for a private, rural estate in Oxfordshire, England.

Formed in 2017 when **Charlotte Harris** and **Hugo Bugg** merged their separate practices, Harris Bugg Studio is a values-driven, award-winning landscape design practice. The studio creates inclusive and immersive gardens located in the U.K. and Europe encompassing high-end residential, public, botanic, commercial, historic, and conservation landscapes. The studio has won five Gold medals, two Silver Gilt and a Best in Show at RHS shows, including three Gold medals at Chelsea Flower Show, including most recently for its pocket park garden in 2021.

March 30 | Online | 233GAR801DO



©Mr. Hitesh Mehta



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©Chris Gorman

Registration fee for each lecture: \$32/\$35. Register for the series and receive a discount: 233GAR801A | \$85/\$95



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	6
Botanical Drawing II: Developing Your Skills	BIL 302	P 18	6
The Basics of Visual Composition (should be completed early)	BIL 421	P 18	7
Botanical Drawing III: Focus on Flowers	BIL 303	P 18	7
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	8
<i>Plus one of the following:</i>			
Internet Tools for Creatives, Part I: Social Media	BIL 394	5	7
Internet Tools for Creatives, Part II: Website	BIL 395	7	8
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
Botanical Watercolor II	BIL 332	P 18	7
Seed Pods	BIL 329	P 10	8
Success with Stipple	BIL 458	P 10	8
Designing Complex Compositions in Graphite	BIL 431	P 18	7
Achieving Luminosity Through Layering	BIL 487	P 18	7
Ink Wash Techniques	BIL 407	P 15	8

*Plus a final project that meets Certificate standards

** Courses offered in Spring–Summer catalog

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 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! See p. 43 for more information.



Call For Entries

THE FIFTH NYBG TRIENNIAL

Unsung Allies: Mutualism in Fungi, Parasites, and Carnivores

Co-presented with the American Society of Botanical Artists

OPENS NOVEMBER 2023

The New York Botanical Garden

The Fifth New York Botanical Garden Triennial will examine important allies in the plant world—the often-unobserved relationships fungi and lichens, mycotrophic plants, and carnivorous plants have with other living things—plants *and* animals.

Fungi are beneficial to many ecosystems, funneling nutrients between plants, serving as decomposers, and cleaning up environmental toxins. Lichens are themselves relationships between fungi and communities of microscopic bacteria or algae. Mycotrophic plants such as *Monotropa uniflora* have no chlorophyll of their own and obtain nutrients by tapping into an intermediary fungus attached to the roots of a host plant. Parasitic plants attach themselves directly to a host in order to draw nutrients, often harming the host; indeed, *Phoradendron*, a genus of mistletoe, is derived from the Latin words for “thief” and “tree.” Carnivorous plants supplement nutrients derived from soil and water with a diet of insects.

The relationships these species form are critical to the way their ecosystems function, although their full impact is often not fully appreciated. This exhibition shines a light on the many benefits these plants provide to other species and the ecosystems in which they live.

Submission Deadline: June 16, 2023

For more info, visit asba-art.org

BOTANICAL DRAWING FOR BEGINNERS

This intro class teaches you basic botanical illustration techniques to help you make realistic drawings of branches, stems, leaves, and flowers using graphite and colored pencil. | \$229/\$249

4 Saturdays, 10/29–11/19, 11 am–2 pm
Christiane Fashek | Online | 232BIL145A0

4 Wednesdays, 1/11–2/1, 6–9 pm
Katy Lyness | Online | 233BIL145B0

4 Thursdays, 2/9–3/2, 6–9 pm
Katy Lyness | Online | 233BIL145C0

Weekend Watercolor Online Workshops

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

NEW! MUSHROOMS

Sunday, 10/16, 11 am–4:30 pm
Laura Vogel | Online | 232BIL1870

FALL LEAVES

Sunday, 11/6, 11 am–4:30 pm
Laura Vogel | Online | 232BIL2030

NEW! WINTER PODS & BERRIES

Saturday, 1/28, 11 am–4:30 pm
Laura Vogel | Online | 233BIL1330

IRISES

Saturday, 2/18, 11 am–4:30 pm
Laura Vogel | Online | 233BIL2370

ORCHID FLOWERS

Saturday, 3/18, 11 am–4:30 pm
Laura Vogel | Online | 233BIL2250

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

Focus on dry brush!

Deepen your watercolor practice by learning to slowly build up color layer by layer with the use of little water. Some watercolor painting experience encouraged.

NEW! FIGS IN DRY BRUSH WATERCOLOR

Saturday, 11/19, 11 am–4:30 pm
Carrie Di Costanzo | Online | 232BIL1240

NEW! RED BELL PEPPERS IN DRY BRUSH WATERCOLOR

Saturday, 1/14, 11 am–4:30 pm
Carrie Di Costanzo | Online | 233BIL1670

NEW! EGGPLANTS IN DRY BRUSH WATERCOLOR

Saturday, 2/11, 11 am–4:30 pm
Carrie Di Costanzo | Online | 233BIL2820

NEW! ARTICHOKEs IN DRY BRUSH WATERCOLOR

Saturday, 3/4, 11 am–4:30 pm
Carrie Di Costanzo | Online | 233BIL2700

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

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

7 Tuesdays, 11/1–12/13, 6–8:50 pm
Laura Vogel | Online | 232BIL140AO

5 Mondays, 1/23–2/27 (no class 2/20),
11 am–3:30 pm
Laura Vogel | Online | 233BIL140BO

7 Mondays, 3/13–4/24, 6–8:50 pm
Laura Vogel | Online | 233BIL140CO

CERTIFICATE CLASSES Open to Non-Certificate students

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, 10/11–11/22 (no class 10/18), 6–9 pm
Gaye Grossman | Online | 232BIL301AO

6 Wednesdays, 10/26–12/7 (no class 11/23),
10 am–1 pm
Sarah Wry | NYBG | 232BIL301B


6 Thursdays, 1/12–2/16, 6–9 pm
Linda Nemergut | Online | 233BIL301CO

6 Saturdays, 1/21–3/4 (no class 2/18), 11 am–2 pm
Scott Rawlins | Online | 233BIL301DO

6 Tuesdays, 2/21–3/28, 6–9 pm
Laura Vogel | Online | 233BIL301EO

6 Wednesdays, 3/8–4/12, 11 am–2 pm
Katy Lyness | Online | 233BIL301FO

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.  Prerequisite: *Botanical Drawing I* | \$435/\$479 *Certificate Requirement*

6 Thursdays, 9/29–11/3, 11 am–2 pm
Laura Vogel | Online | 231BIL302FO

6 Thursdays, 11/3–12/15 (no class 11/24), 6–9 pm
Katy Lyness | Online | 232BIL302AO

6 Tuesdays, 1/10–2/14, 6–9 pm
Gaye Grossman | Online | 233BIL302BO


6 Wednesdays, 1/18–2/22, 10 am–1 pm
Sarah Wry | NYBG | 233BIL302C

6 Thursdays, 3/2–4/6, 6–9 pm
Linda Nemergut | Online | 233BIL302DO

6 Saturdays, 3/18–4/29 (no class 4/8), 11 am–2 pm
Scott Rawlins | Online | 233BIL302EO

6 Tuesdays, 4/11–5/16, 6–9 pm
Laura Vogel | Online | 234BIL302AO

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.  Prerequisite: *Botanical Drawing II* | \$435/\$479 *Certificate Requirement*


6 Thursdays, 11/10–12/22 (no class 11/24)
11 am–2 pm
Robin Jess | Online | 232BIL303AO

6 Tuesdays, 1/17–2/21, 6–9 pm
Linda Nemergut | Online | 233BIL303BO

6 Tuesdays, 3/14–4/18, 5:30–8:30 pm
Rose Marie James | Online | 233BIL303CO

COLORLED 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.


 Prerequisite: *Botanical Drawing II* | \$435/\$479 *Certificate Requirement*

6 Saturdays, 9/24–11/12 (no class 10/1 or 10/8),
11 am–2 pm
Laura Vogel | Online | 231BIL415AO

6 Mondays, 2/6–3/20 (no class 2/20), 6–9 pm
Jeanne Reiner | Online | 233BIL415BO

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.

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

8 Wednesdays, 10/19–12/14 (no class 11/23),
11 am–2 pm
Laura Vogel | Online | 232BIL331AO

8 Thursdays, 1/12–3/2, 5:30–8:30 pm
Rose Marie James | Online | 233BIL331BO

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.

 Prerequisite: *Botanical Drawing II* | \$435/\$479 *Certificate Requirement*

6 Mondays, 10/17–11/28 (no class 10/31),
11 am–2 pm
Carol Ann Morley | Online | 232BIL400AO

6 Tuesdays, 1/17–2/21, 11 am–2 pm
Carol Ann Morley | Online | 233BIL400BO

THE BASICS OF VISUAL COMPOSITION

Forethought and an understanding of basic composition principles are the foundation of any balanced work of art. Through group critiques, discussions and a variety of exercises, we'll experiment with a wide range of principles, including focal point, the rule of thirds, value, and negative space that will help your artwork achieve maximum visual impact. This class is best taken early in your Certificate program. **■** Prerequisite: *Botanical Drawing II* | \$449/\$495 *Certificate Requirement*

4 Fridays, 10/28–12/2 (no class 11/11 & 11/25),
10 am–3 pm

Betsy Rogers-Knox | Online | 232BIL421AO

4 Saturdays, 2/4–3/4 (no class 2/18), 10 am–3 pm
Betsy Rogers-Knox | Online | 233BIL421BO

INTERNET TOOLS FOR CREATIVES

PART I: SOCIAL MEDIA

Learn to develop and implement an Instagram strategy to showcase your work and attract and engage followers. You'll define your goals for using social media as a marketing tool, and create a strategy to achieve those goals, as well as discover tips for attracting and engaging followers. A smartphone is required. | \$115/\$129 *Certificate Requirement*

2 Saturdays, 10/29 & 11/5, 10 am–12:30 pm
Jamie Jamison | Online | 232BIL394AO

2 Saturdays, 2/25 & 3/4, 10 am–12:30 pm
Jamie Jamison | Online | 233BIL394BO

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 this class immediately following *Botanical Watercolor I*. **■** Prerequisite: *Botanical Watercolor I* | \$435/\$479 *Certificate Elective*

6 Wednesdays, 11/2–12/14 (no class 11/23),
10 am–1 pm

Rose Marie James | Online | 232BIL332AO

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.

■ Prerequisite: *Botanical Drawing I* | \$495/\$545 *Certificate Requirement*

8 Wednesdays, 2/22–4/19 (no class 4/5),
10 am–12:30 pm

Dick Rauh | Online | 233BIL300O

VISITING ARTISTS

*Join us for these special workshops with
Heeyoung Kim and David Morrison*



Illustration: Moth Orchid, *Phalaenopsis orchid*,
Graphite Pencil, ©Heeyoung Kim

NEW! DESIGNING COMPLEX COMPOSITIONS IN GRAPHITE

Heeyoung Kim—RHS Gold Medalist and ASBA Best in Show Winner—will share how she creates complicated yet seamless designs without crowded layers or awkward blockages. After exploring the basic mechanics of using graphite pencils, you will practice using value in order to define your work's focal point. You'll also gain confidence in designing large-format illustrations by learning techniques, including how to cover large areas with long strokes, blend media quickly, and transition flawlessly between values.

■ Prerequisite: *Botanical Drawing III*
\$535/\$595 *Certificate Elective*

2 Fridays, 1/13 & 1/27, and
1 Saturday 1/28, 10 am–4 pm
Heeyoung Kim | Online | 233BIL431O

NEW! ACHIEVING LUMINOSITY THROUGH LAYERING

With work in over 25 museum and university collections in addition to four solo shows in New York City, David Morrison is lauded for his hyper-realistic drawings, rich in tonal detail. In this special in-person workshop, he will show you how to create an underdrawing with graphite, then use layer upon layer of colored pencil and watercolor pencil to build maximum tonal range, brilliant luminous color, and pop-off-the-paper three dimensionality. You'll practice these techniques using live botanical material for reference.

■ Prerequisite: *Botanical Drawing II*
\$535/\$595 *Certificate Elective*

Friday–Sunday, 3/24–3/26

10 am–4 pm

David Morrison | NYBG | 233BIL487


Illustration: Chinese Lantern Drawing, Colored Pencil
and Watercolor, ©David Morrison






Illustration: Acer Samaras, ©Dick Rauh

NEW! SEED PODS

In this in-depth study of seed pods, we will focus on capturing the final (and beginning!) display of a plant's life cycle, one whose beauty does not depend on flashy flowers. Because the ways in which plants protect and distribute their seeds differ so widely, they come in a fascinating variety of forms that rarely depend on the attraction of color. We will review the science, but mainly focus on accurately rendering the unique forms of various seed pods.  Prerequisite: *Botanical Drawing II* | \$359/\$395 *Certificate Elective*

5 Wednesdays, 1/18–2/15, 10 am–12 pm
Dick Rauh | Online | 233BIL3290

PRACTICAL ASPECTS OF BOTANICAL ART

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.  Prerequisite: *Watercolor I* | \$245/\$269 *Certificate Requirement*


4 Fridays, 2/3–2/24, 10:30 am–1 pm
Carol Woodin | Online | 233BIL3920

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

Tuesday, 2/7, 10 am–3:30 pm
Robin Jess | Online | 233BIL2080

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.  Prerequisite: *Botanical Drawing II* | \$359/\$395 *Certificate Elective*


5 Thursdays, 2/16–3/23 (no class 3/16), 6–9pm
Laura Vogel | Online | 233BIL4070

**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 or a Squarespace template and free online photo-editing tools. Internet proficiency necessary. | \$155/\$169 *Certificate Requirement*

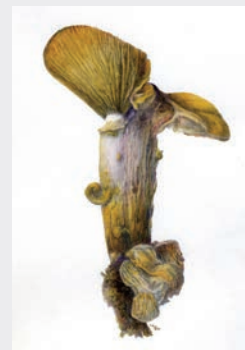
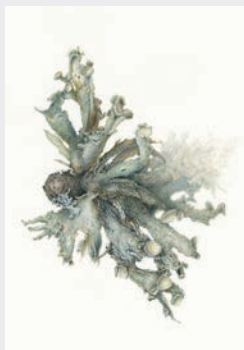
3 Saturdays, 3/18–4/1, 11 am–1:20 pm
Dylan Marcheschi | NYBG | 233BIL395

SUCCESS WITH STIPPLE

Black-and-white stipple technique can produce smooth gradated tones, add texture and value, and suggest color. Learn the skills and procedures to master the method of using sized pens and ink or fine point markers such as Copic multiliners or Micron pens to create rich drawings. (Crow Quill pen will be presented but not featured.) Through demonstrations, examples, and personal attention, you'll learn how and when to use a brush with ink to enhance the drawing, make corrections, and highlight with white gouache.  Prerequisite: *Botanical Drawing I* | \$359/\$395 *Certificate Elective*

3 Mondays, 3/13–3/27, 11 am–2:30 pm
Robin Jess | Online | 233BIL4580

FINDING THE BEAUTY IN FUNGI: MUSHROOMS AND LICHENS



From "mushroom leather" fashion to best-selling books on how mycelial networks create webs of interconnectivity between species, fungi continue to capture the contemporary imagination. Join us to view stunning artwork created by botanical artists Christiane Fashek, Lucy Martin, and Margaret Saylor, who have long focused their artistic lenses on mushrooms and lichens. Each artist will show a curated selection of their work and discuss how they collect, prepare, or photograph specimens for study, how they depict these tiny organisms in such intimate detail, and why they too remain fascinated by fungi. Those interested in submitting work for *Unsung Allies*, The Fifth NYBG Triennial, will gain invaluable insights from these experts. See p. 5 for more details. | \$15/\$18

Thursday, 2/16, 6–7 pm | Christiane Fashek, Lucy Martin, & Margaret Saylor | Online | 233BIL8070

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	11
Plant Physiology	BOT 316 P	21	11
Plant Diversity	BOT 317 P	24	11
Dendrology: Woody Plant Identification	BOT 375 P	15	11
Herbaceous Plant Identification**	BOT 376	15	—
<i>One of the four Native Flora courses:</i>		12	
Native Flora in Autumn	BOT 331 P		11
Native Flora in Winter	BOT 332 P		11
Native Flora in Spring**	BOT 333 P		—
Native Flora in Summer**	BOT 334 P		—
Elective Credits (See current electives below)		58	
TOTAL REQUIRED HOURS		169	

ELECTIVES

Course	Code	Hours*	Page
Nature's Pharmacy	BOT 346	4	10
Botanical Latin	GAR 360	12	10
Paleobotany: The Origin of Plants	BOT 434 P	12	10
Autumn Mushrooms	BOT 368	6	10
Psychedelic Mushrooms	BOT 302	2	10
The Science of Tree Communication	BOT 385	6	10
Winter Mushrooms	BOT 394	6	10
Morphology of Flowering Plants	BOT 431 P	19	11
Lichens Revealed	BOT 388	9	10
Ethnobotany: A Practitioner's Perspective	BOT 344	5	11
Tropical Forest Ecology	BOT 358	6	11
Hidden World of Lichens	BOT 313	3	11

*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



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 Fridays, 10/14–10/28, 10 am–12 pm
Clara Holmes | Online | 232BOT308AO

3 Thursdays, 11/3–11/17, 5:30–7:30 pm
Clara Holmes | Online | 232BOT308BO

3 Tuesdays, 1/24–2/7, 5:30–7:30 pm
Clara Holmes | Online | 233BOT308CO

3 Saturdays, 2/4–2/25 (no class 2/18),
10 am–12 pm
Clara Holmes | Online | 233BOT308DO

3 Saturdays, 3/4–3/18, 10 am–12 pm
Clara Holmes | Online | 233BOT308EO

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). | \$145/\$159 *Certificate Elective*

3 Tuesdays, 10/11–10/25, 6–8 pm
Steve Kutos | Online | 232BOT385AO

3 Tuesdays, 12/6–12/20, 6–8 pm
Steve Kutos | Online | 232BOT385BO

3 Saturdays, 1/21–2/4, 10 am–12 pm
Steve Kutos | Online | 232BOT385CO

3 Thursdays, 3/2–3/16, 6–8 pm
Steve Kutos | Online | 233BOT385DO

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. | \$145/\$159 *Certificate Elective*

2 Saturdays, 10/15–10/22, 10 am–1 pm
Paul Sadowski | Manhattan & Off-site | 232BOT368

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

Thursday, 10/20, 6–8 pm
James Kaechle | Manhattan | 232BOT223A

Saturday, 2/25, 2–4 pm
James Kaechle | Online | 233BOT223BO

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. | \$295/\$325 *Certificate Elective*

6 Mondays, 3/13–4/24 (no class 4/10),
10:30 am–12:30 pm
Jennifer Bakshi | Online | 233GAR3600

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, 11/12 & 11/19, 10 am–12 pm
Andrea Candee | Online | 232BOT346AO


2 Saturdays, 3/4 & 3/11, 10 am–12 pm
Andrea Candee | Online | 233BOT346BO

LICHENS REVEALED

Join NYBG lichenologist James Lendemer for an in-depth look at these important organisms, both in the classroom using a microscope and on Garden grounds using a loupe. Find out how lichens get their color and how those colors can be used to identify genera and species. \$295/\$325 *Certificate Elective*

Wednesday–Friday, 11/2–11/4, 10 am–1 pm
James Lendemer, Ph.D. | NYBG | 232BOT388

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.  Prerequisite: *Basic Plant ID* or *Plant Structure* | \$295/\$325 *Certificate Elective*

6 Mondays, 11/14–12/19, 5–7 pm
Jamie Boyer, Ph.D. | Online | 232BOT434AO

6 Thursdays, 3/23–5/4 (no class 4/6), 5–7 pm
Jamie Boyer, Ph.D. | Online | 233BOT434BO

PSYCHEDELIC MUSHROOMS

Discover the power, the allure, and the science of psychedelic mushrooms, in particular the genus *Psilocybe*. 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*

Thursday, 12/8, 10:30–12:30 pm
Eugenia Bone | Online | 232BOT302AO

Tuesday, 2/7, 6–8 pm
Eugenia Bone | Online | 233BOT302BO

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. | \$145/\$159 *Certificate Elective*

2 Thursdays, 1/26 & 2/2, 10 am–1 pm
Paul Sadowski | NYBG & Off-Site | 233BOT394



NEW! PLANTS IN SPACE

Our lives on Earth are totally dependent on plants. As people start making plans for long-distance space travel, there is a critical need for technology that can bring life-sustaining plants along on the journey. Join Dr. Carl Lewis, Director of Fairchild Tropical Botanic Garden and principal investigator on several NASA grants awarded to Fairchild, as he discusses current space gardening technology and the research now underway to make it better. | \$15/\$18

Wednesday, 11/30, 6–7:30 pm
Carl E. Lewis, Ph.D. | Online | 232BOT825O

NEW! TROPICAL RAIN FOREST ECOLOGY

Discover the magic of the Costa Rican rain forest and how its diverse world of plants, insects, vertebrates, and fungi are vital to its survival, which in turn affects the weather patterns of the entire world. We'll cover the intricacies of tropical soils, forest structure, biodiversity, symbiotic relationships, and forest disturbances, and study several plant species found in NYBG's Haupt Conservatory. \$145/\$159 *Certificate Elective*

3 Wednesdays, 2/22–3/8, 10 am–12 pm
Michael Troy Brown | NYBG | 233BOT358

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 Fridays, 2/3 & 2/10, 10 am–12 pm
David Saidoff | Online | 233BOT2070

MORPHOLOGY OF FLOWERING PLANTS

Examine the form and structure of angiosperms (flowering plants) with a focus on their flowers, fruits, and vegetative plant parts. We will also study how and why these structures developed. **P** Prerequisite: *Plant Structure* | \$395/\$435 *Certificate Elective*

6 Mondays, 2/27–4/3 ☞ 3:30–6:40 pm
Regina Alvarez | NYBG | 233BOT431S

THE MANY USES OF MYCELIUM

Scientists have engineered so many new products from mycelium that Scientific American heralds the dawn of the "Mycelium Revolution" and *Harper's Bazaar* dubs fungi "The Future of Fashion." Explore how scientists have harnessed mycelium's ability to create complex structures that are now being used as eco-friendly alternatives to plastic, leather, meat, and Styrofoam. | \$45/\$49

Tuesday, 2/28, 6–7:30 pm
John Michelotti | Online | 233BOT3490

CERTIFICATE CLASSES

Open to Non-Certificate students

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

5 Saturdays, 9/17–10/22 (no class: 10/8, rain date: Saturday, 10/29) 10 am †
Nancy Slowik | NYBG & Online | 231BOT331BBL

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 Mondays, 10/24–12/12, 6–9 pm
Jasmin Alim | Online | 232BOT315A0

8 Mondays, 1/23–3/20 (no class 2/20), 6–9 pm
Jasmin Alim | Online | 233BOT315B0

8 Tuesdays, 2/21–4/11, 6–9 pm
Steve Kutos | Online | 233BOT315C0

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 Wednesdays, 9/21–11/16 (no class 10/5), 6–9 pm
Steve Kutos | Online | 231BOT317B0

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*

4 Fridays, 1/13–2/3, 10 am–1 pm
Nancy Slowik | NYBG | 233BOT332

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*

8 Wednesdays, 3/15–5/3 ☞ 4–7 pm
Regina Alvarez | NYBG | 233BOT316

DENDROLOGY: WOODY PLANT IDENTIFICATION

Learn to identify the native and naturalized trees, shrubs, and woody vines of the Northeast by their vegetative characteristics using their scientific and common names. You'll also hone your ability to use taxonomic keys and field guides. **P** Prerequisite: *Basic Plant ID* or *Plant Structure* | \$379/\$415 *Certificate Requirement*

4 Tuesdays, 4/11–5/2, 6–8 pm & 3 Sundays, 4/16–4/30, 10:30 am–1 pm
James Kaechele | NYBG & Online | 234BOT375BL

*The Plant Whisperers*

The Garden's world-renowned scientists use cutting-edge tools to discover and preserve Earth's botanical diversity. Share their insights and field experiences in far-flung locales, as they unlock the mysteries of exotic and local flora in these engaging sessions.

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, 1/23–2/6, 5:15–7 pm
Michael Balick, Ph.D. & Alex McAlvay, Ph.D.
Online | 223BOT3440

THE HIDDEN WORLD OF LICHENS

Among Earth's most amazing and oldest living organisms, lichens grow on bark, rock, and barren soil. They thrive in rain forests, deserts, the arctic—even environments simulating Mars! Lichens are sensitive environmental indicators, yet scientists are only just beginning to understand them. Join noted NYBG lichenologist James Lendemer for a captivating session that includes a microscope lab. | \$75/\$85 *Certificate Elective*

Tuesday, 1/24, 6–9 pm
James Lendemer, Ph.D. | Manhattan
233BOT313A

Thursday, 2/16, 10 am–1 pm
James Lendemer, Ph.D. | NYBG
233BOT313B

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

☞ Exam on last class date.



Crafts & Culinary

Let Mother Nature be your muse—use botanicals to create prints, fabrics, décor, and more!

NEW! PLEIN-AIR DRAWING

Plein-air artist Frank Guida covers basic design principles, including focal point, contrast, perspective, line, and gesture, as well as how to choose a subject that translates well on the page. Then, you will go out on grounds to practice what you've learned. Beginners and experienced artists alike will receive individual guidance to hone their skills. | \$125/\$139

Thursday, 10/6 (rain date 10/13), 10 am–2 pm
Frank Guida | NYBG | 232CRF198

NEW! PINE BARK BASKETS

Barks from pine, ash, or birch—sewn together with spruce root—have been used to make baskets for storage and other cultural purposes for centuries. You'll view different styles of baskets, then craft your own using pine bark, birch rims, and waxed linen. All materials provided. | \$125/\$139

Sunday, 10/2, 10 am–1 pm
Poliana Danila | NYBG | 232CRF241

NEW! CANDLEMAKING WITH HERBS

Discover the art of hand-dipped and hand-poured candles using eco-friendly, non-toxic ingredients, essential oils, and herbs. You'll learn the history of this ancient craft, and how to make synergistic scents that add a vibrance to the darker days of winter. Participants will make two different candles during class for at-home use. All materials provided. \$95/\$105

Saturday, 10/22, 11 am–1 pm
Dawn Petter | NYBG | 232CRF220

WATERCOLOR BASICS

You love her *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! All materials provided. | \$95/\$105

Wednesday, 10/26, 10 am–12 pm
Jenny Kroik | NYBG | 232CRF277A

Wednesday, 11/9, 6–8 pm
Jenny Kroik | Manhattan | 232CRF277B

Wednesday, 2/15, 6–8 pm
Jenny Kroik | Manhattan | 233CRF277C

INSTRUCTOR BIOS CAN BE FOUND ONLINE
AT NYBG.ORG/ADULTED

WOVEN WILLOW TRAY

Join us to fashion your own skib, a traditional Irish basket. You'll learn to use a pairing weave to craft an open center and waling to fashion the sides. You'll finish your tray with a decorative woven border, perfect for use serving food, drying herbs, or displaying as a piece of art. Strong hands are a must! All materials provided. | \$215/\$239

Friday, 11/4, 9 am–5 pm

Jesica Clark | NYBG | 232CRF208

NEW! CREATIVE BOOKBINDING

Explore the age-old skill of basic bookbinding using a variety of structures and materials. Experiment with ancient binding techniques, including Japanese stab binding, French link, and Coptic stitches. You'll walk away with a small book to use as a journal, notebook, sketchbook, or photo album. All materials provided. | \$125/\$139

Sunday, 11/6, 10 am–1 pm

Poliana Danila | NYBG | 232CRF191

NEW! BOTANICAL HOLIDAY CARDS

Learn the basics of block printing with artist Chemin Hsiao. Together, you'll visit NYBG's Haupt Conservatory for seasonal botanical inspiration. Then, experiment with carving a simple design into a block of soft, eraser-like material. You'll stamp your designs onto paper and walk away with a unique set of hand-printed holiday cards for your loved ones! All materials provided. | \$125/\$139

Saturday, 11/12, 10 am–1 pm

Chemin Hsiao | NYBG | 232CRF209

NEW! PATTERNS IN NATURE: BRANCHING

Study the beauty and efficiency of branching patterns found in nature, from leaf veins and root systems, to corals, mineral dendrites, and a single brain neuron. You will observe and sketch from specimens, then create 2D and 3D representations modeled on these concepts. All materials provided. | \$59/\$65

Saturday, 11/19, 10 am–12 pm

Karen Fuchs | NYBG | 232CRF258

MAGNOLIA LEAF WREATH

Southern charm and hospitality come front and center with a glossy, richly decorated wreath of magnolia leaves on a door, mantel, or accent wall. Weave leaves into a wreath form, then complement shape and color with seasonal fruit, pine cones, holly, and other greenery. | \$189/\$205

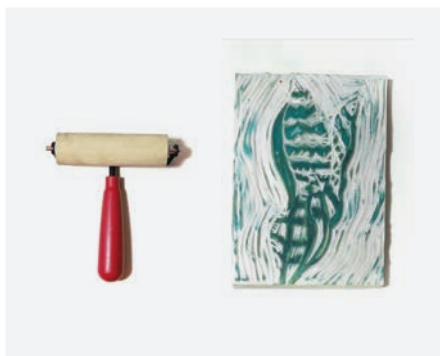
Monday, 12/12, 10 am–2:30 pm

Thomas Cawley | NYBG | 232FDN355

REGISTER ONLINE AT NYBG.ORG/ADULTED
OR CALL 718.817.8720



Try your hand at plein-air drawing.



Create unique botanical holiday cards.



Design your own terrarium.



Craft lifelike peonies with paper.

WILLOW GROWING FOR FUN AND FUNCTION

Growing willows will introduce winter color, texture, and functionality to your garden or farm—while also supporting biodiversity. Learn how to grow, care, and harvest shrub willows with Jes Clark of Willow Vale Farm. In this lecture-based class, you'll learn how to plan your space, where to get plantable cuttings, and what to do with them. Explore the many uses of willow as well its maintenance needs. \$59/\$65

2 Wednesdays, 1/11 & 1/18, 6–7:30 pm

Jesica Clark | Online | 233CRF2650

NEW! PAPER PEONIES WITH LIVIA CETTI

Join Livia Cetti, the nation's premier paper flower artist, as she guides you how to make your own remarkably realistic charm peony from stem to stamen. Bleach, cut, and shape your paper into petals that you assemble using wire and floral tape, creating an exquisite, lifelike flower that will brighten your home regardless of the season. | \$149/\$165

Saturday, 1/21, 10 am–2:30 pm

Livia Cetti | NYBG | 233CRF250

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, 2/25, 11 am–1 pm

Christopher Satch | Online | 233CRF2750

NEW! ORIGAMI BOTANY: HOLIDAY EDITION

Experience the meditative quality of origami, the simple yet intricate art of folding paper. We'll create a variety of seasonal botanical subjects, such as autumn leaves, poinsettias, and conifers, starting with simple models and progressing to more complex patterns that require inflating and twisting. We will also explore how to hang your paper creations for seasonal flair. All materials provided. | \$59/\$65

Thursday, 11/7, 6–8 pm

Jeffrey Raab | Manhattan | 232CRF298

©Chemin Hsiao

©Christopher Satch

©Dylan Griffin, Courtesy of The Green Vase

Experiment with fermentation, food preservation, and mixology!

FALL EDIBLE PLANTS

Take a guided ramble with wild foods author and forager Marie Viljoen and learn to how to identify and use edible plants that include introduced ornamentals, cosmopolitan weeds, and flora 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

Sunday, 10/16, 11 am–1 pm
Marie Viljoen | NYBG | 232CKG229

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

Wednesday, 11/2, 6:30–8 pm
Cheryl Paswater | Online | 232CKG2010

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! All materials provided. | \$79/\$85

Saturday, 11/5, 11 am–3 pm
Stephen Nocera | NYBG | 232CKG218

BOTANICAL MIXOLOGY 101

Go beyond the garnish into a world of oleo-saccharums, infusions, simple syrups, and tinctures using plants and ingredients accessible to the urban gardener. You'll learn history, get growing advice, and master techniques to broaden your palette of flavors. All materials provided. \$79/\$85

Tuesday, 11/15, 6–8 pm
Jim Freeman | Manhattan | 232CKG243A

Tuesday, 2/21, 6–8 pm
Jim Freeman | Manhattan | 233CKG243B



©Marie Viljoen

Brew a hot toddy using edible plants.

Earth's Superfood: MUSHROOMS

GROW GOURMET MUSHROOMS

Learn to cultivate gourmet mushrooms at home using safe and simple techniques with John Michelotti, owner of Catskill Fungi. Using cardboard and coffee grounds, you will create your own oyster mushroom starter (*Pleurotus ostreatus*) at home, while learning about the life cycles, characteristics, and medicinal and culinary properties of fungi. See website for materials list. | \$79/\$85

Saturday, 1/14, 11 am–1 pm | John Michelotti | Online | 233CKG2070

NEW! GROWING LION'S MANE

Take a deep dive into studying lion's mane mushrooms, a wood-loving fungi valued for its culinary and medicinal uses. Hodgins Harvest Founder & "Chief Fungi Enthusiast" Aaron Hodgins Davis takes us on a virtual tour of his small, organic mushroom farm in Rockland County and demonstrates how you can grow lion's mane at home using non-sterile techniques. | \$59/\$65

Saturday, 11/12, 11 am–1 pm | Aaron Hodgins Davis | NYBG | 232CKG223

NEW! MUSHROOMS IN TRADITIONAL CHINESE MEDICINE

Explore the cooking methods and medicinal benefits of six different kinds of mushrooms: black wood ear, tremella, lady's veil, enoki, lion's mane, and king oyster. Traditional Chinese Medicine (TCM) food therapist Zoey Gong will touch on the nutritional aspects from the perspective of TCM and share six detailed recipes featuring each of these mushrooms. | \$59/\$65

Monday, 1/23, 6–8 pm | Zoey Gong | Online | 233CKG1400



©Torje Thillesen

FERMENTING CONDIMENTS

Overgrown peppers, tomatoes, basil and more can be used as a great base when creating your own condiments such as ketchup, mustard, pesto, salsa, corn relish, and hot sauce. and more. Engage with experts from Contraband Fermentation as they demonstrate the basic principles of making your own delicious, nutritional, and probiotic-rich condiments. | \$45/\$49

Wednesday, 12/7, 6–8 pm
Cheryl Paswater | Online | 232CKG2320

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. All materials provided. | \$79/\$85

Saturday, 2/4, 11 am–3 pm
Stephen Nocera | NYBG | 233CKG249

NEW! HERBAL BROTHS & SOUPS

Nourishing broths are one of the foundational foods of any nutritional healing regime. Learn the basics of making vegan and bone-based broths, and how to enhance them with medicinal herbs. We'll discuss medicinal mushrooms, seaweeds, mineral-rich herbs and other tasty ingredients to enhance the nutritional experience. Participants will make two herbal creations in class. | \$79/\$85

Sunday, 2/26, 1–3 pm
Dawn Petter | NYBG | 233CKG237

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

Saturday, 3/4, 11 am–1 pm
Marie Viljoen | NYBG | 233CKG247

BEEKEEPING BASICS

Expert beekeepers Frank Mortimer and Robert Slanzi walk you through the ins and outs of what's needed to safely, productively, and enjoyably begin to keep honeybees in a populated area. You'll learn how and why a beehive functions as one living organism, as well as the practicalities of how to manage a colony and begin to produce honey. \$59/\$65

Sunday, 3/19, 11 am–2 pm
Frank Mortimer | NYBG | 233CKG206



©Douglas Dubler

Focus on Photography

NEW! IPHONE PHOTOGRAPHY TIPS AND TRICKS

Practice using your iPhone's built-in features to create high-quality memories of the Garden. You'll gain comfort with how to zoom, achieve proper exposure, shoot panoramic and portrait modes, edit for color and contrast, crop, and trigger snapshots via Bluetooth. | \$45/\$49

Tuesday, 10/11, 6–8 pm
Jeffrey Falk | Online | 232GWP2190

CLOSE-UP & MACRO WORKSHOP

Learn to create intimate and detailed portraits of flowers using various lenses, proper depth of field, filters, and the best framing techniques. Equipment, including zoom telephotos, close-up diopter filters, extension tubes, teleconverters, dedicated macro lenses, and wide angle close-ups will be demonstrated in the classroom, followed by practice using your own equipment. Images will be projected on screen for discussion and review. | \$45/\$49

Monday, 10/17, 6–8 pm
Jeffrey Falk | Online | 232GWP9280

LEARNING TO SEE: BASIC COMPOSITION

After decades as a sought-after fashion photographer, Douglas Dubler knows what makes a compelling image. Using his own photographs and those of the masters, he'll demonstrate how to create powerful images with light, shape, and form. Walk away from this session with a clear focus on how to frame the world around you. | \$59/\$65

Saturday, 10/29, 2–5 pm
Douglas Dubler | NYBG | 232GWP224

STACKED IMAGE WORKSHOP

Stacked image photography allows you to create images of extraordinary depth, sharpness, and detail. In this hands-on workshop, you will use your own digital camera (manual focus required) to take a series of photos of the same subject with different focal points. You will then combine these photos using your own laptop (with a free trial of a special software) to produce one final breathtaking image. | \$45/\$49

Thursday, 2/9, 6–8 pm
Jeffrey Falk | Online | 233GWP2130



SPECIAL PHOTOGRAPHERS' HOURS: THE HOLIDAY TRAIN SHOW®

For serious photographers only, this is a rare opportunity to capture the exquisite beauty of NYBG's *Holiday Train Show*® without casual visitors present. Bring your tripod (the only time we'll allow them in the exhibition!), since you'll be shooting with available light. Please minimize gear—no backdrops or screens. | \$55/\$65

Friday, 12/9, 8:30–10 am | NYBG | 232GWP231



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:

- For in-person classes, we provide all materials, except a floral knife and pruners. To purchase a tool kit, including knife, wire cutter, scissors, and pruners, email adulthood@nybg.org or call 718.817.8720.
- For online classes, please see each individual course description on 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	18
Fundamentals of Style	FDN 302 P	16	18
Wedding Design I: Personals	FDN 304 P	18	18
Color Theory for Floral Design	FDN 306	6	18
Flower ID from A to Z	FDN 308	6	18
Interior Plantscapes	FDN 310	8	19
Shopping the New York Flower Market	FDN 400 P	4	18
Modern Sympathy Design	FDN 382 P	6	19
Wedding Design II: Ceremony & Reception	FDN 305 P	16	19
Grand-Scale Arrangements	FDN 502 P	8	19
Event Planning for the Floral Designer	FDN 504 P	12	19
<i>Elective courses</i>		26	
TOTAL REQUIRED HOURS		142	

ELECTIVES

Course	Code	Hours	Page
Prop Styling with Botanicals	FDN 312	2	17
Boho Bouquet with the Egg Cage	FDN 313	2	18
Designing with Winter's Palette	FDN 330	3	17
Sustainable Design Techniques	FDN 270	6	17
Gothic Style: Dark and Dramatic	FDN 307	3	19
Winter White Centerpiece & Tablescape	FDN 320	2	19
Thanksgiving Modern Harvest Tabletop	FDN 322	2	19
Designing with Dahlias	FDN 398	3	17
Materials as Muse: Making Art with Flowers	FDN 323	3	17
Style and Shoot: Baroque	FDN 350	7	18
Ikebana: A Comprehensive Approach	FDN 325	9	18
Holiday Greens	FDN 335	5	19
Magnolia Leaf Wreath	FDN 355	4	19

**Courses offered in the Spring–Summer Catalog

 Courses with a prerequisite before you can register

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

**FAST-TRACK YOUR TRAINING**

Our mini-intensive program at the Midtown Education Center provides an accelerated way to complete the first few requirements in the NYBG Certificate Program. You'll work with industry professionals to gain the key skills needed to become a floral designer. | \$900 materials fee.

FUNDAMENTALS OF FORM | FUNDAMENTALS OF STYLE | WEDDING DESIGN I

Tuesday–Friday, 1/17–2/3, 10:30 am–3:30 pm | Manhattan
233FDN957 | \$1,195/\$1,345

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. | \$45/49

Thursday, 9/15, 6–8 pm | Rose G. Edinger | Online | 231FDN243FO

Monday, 10/24, 6–8 pm | Rose G. Edinger | Online | 232FDN243AO

Tuesday, 11/15, 10 am–12 pm | Nsombi Woodson | Online | 232FDN243BO

Thursday, 12/8, 6–8 pm | Rose G. Edinger | Online | 232FDN243CO

Wednesday, 1/18, 10 am–12 pm | Nsombi Woodson | Online | 233FDN243DO

Monday, 2/13, 6–8 pm | Rose G. Edinger | Online | 233FDN243EO

Tuesday, 3/28, 6–8 pm | Nsombi Woodson | Online | 233FDN243FO

FLOWER ARRANGING WITH STORE-BOUGHT BOUQUETS

Create your own professional-looking arrangements with economical, store-bought bouquets. Using simple design principles and fresh flowers from your local grocery store or farmer's market, learn how to design and create your own eye-catching arrangements. \$45 materials fee. | \$49/\$55

Wednesday, 10/5, 6–8 pm | Barbara Mele | Manhattan | 232FDN210A

Wednesday, 11/30, 6–8 pm | Barbara Mele | Manhattan | 232FDN210B

Wednesday, 2/8, 6–8 pm | Barbara Mele | Manhattan | 233FDN210C

Tuesday, 3/21, 6–8 pm | Barbara Mele | Manhattan | 233FDN210D

DESIGNING WITH DAHLIAS

Vibrant, locally sourced dahlias make for simple yet spectacular arrangements that are perfect for a mantel, entry table, or dining centerpiece. 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. | \$115/\$125 *Certificate Elective*

Wednesday, 9/28, 10 am–1 pm | Nsombi Woodson | NYBG | 231FDN398

MATERIALS AS MUSE: MAKING ART WITH FLOWERS

What is the line between art and decoration? Think beyond the confines of "pretty" and consider flowers in terms of line, gesture, texture, and form. We will examine the colors and patterns of various masterworks, then create sculptural interpretations in dialogue with that work. Then, unleash your creativity and design a creation inspired by an artwork of your choice. \$170 materials fee. | \$115/\$125 *Certificate Elective*

Wednesday, 10/12, 11 am–2 pm | Joshua Werber | NYBG | 232FDN323

PROP STYLING WITH BOTANICALS

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

Saturday, 11/19, 11 am–1 pm | Robin Zachary | Online | 232FDN312AO

Saturday, 1/21, 11 am–1 pm | Robin Zachary | Online | 233FDN312BO

SUSTAINABLE DESIGN TECHNIQUES

Learn how different tools can be used to anchor flowers and achieve unique shapes, without the use of floral foam. Each day, you'll focus on a specific sustainable tool—floral pin frogs, aluminum wire, and branches—to create beautiful, contemporary arrangements that are well supported. See website for materials list. | \$165/\$189 *Certificate Elective*

3 Tuesdays, 11/1–11/15, 6–8 pm | Rose G. Edinger | Online | 232FDN452AO

3 Thursdays, 2/9–2/23, 6–8 pm | Rose G. Edinger | Online | 233FDN452BO

DESIGNING WITH WINTER'S PALETTE

Bring wintry flair into your home. Fashion an elegant and textural arrangement using a mix of natural materials such as lichen branches, juniper, quince branches, and eucalyptus pods, combined with seasonal floral gems, including hellebores, amaryllis, poppies, and orchids. \$170 materials fee. | \$115/\$125 *Certificate Elective*

Wednesday, 1/25, 6–9 pm | Joshua Werber | Online | 233FDN3300

INSTRUCTOR BIOS CAN BE FOUND ONLINE AT NYBG.ORG/ADULTED

IKEBANA: A COMPREHENSIVE APPROACH

This ancient Japanese art form seeks to create a living sculpture that transcends the beauty of nature. More than merely arranging flowers, ikebana often emphasizes other areas of the plant, such as its stems and leaves, focusing on shape, line, harmony, and balance. Instructor Junko Miura, acclaimed floral artist and a second-generation ikebana master, guides you through the basic principles as well as the moribana and nageire forms. Please bring wire cutters to class. \$180 materials fee. | \$235/\$279 *Certificate Elective*

3 Tuesdays, 2/21–3/7, 11 am–2 pm
Junko Miura | Manhattan | 233FDN325

BOHO BOUQUET WITH THE EGG CAGE

The elegant Boho bridal bouquet continues to be on trend. Learn to design an asymmetrical array of blossoms accented by at least three different types of greenery using an egg cage, a technique popularized by Holly Heider Chapple as an alternative to floral foam. See website for materials list. \$75/\$85 *Certificate Elective*

Sunday, 3/12, 10 am–12 pm
Nsombi Woodson | Online | 233FDN3130

NEW! STYLE AND SHOOT: BAROQUE

Spend an inspiring day honing your floral design and social media marketing skills! In the morning, craft a bold and ornamental design in the Baroque style with a modern twist. Then, style still-life vignettes using your arrangement and a variety of props, which you'll photograph with your smartphone. Learn helpful tips and tricks to creating successful social content to promote your floral talents. \$125 materials fee. | \$295/\$315 *Certificate Elective*

Saturday, 11/12, 10 am–5 pm
Barbara Mele & Jamie Jamison | NYBG
232FDN350A

Saturday, 2/4, 10 am–5 pm
Barbara Mele & Jamie Jamison | Manhattan
233FDN350B

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*

Wednesday–Friday, 10/12–10/14, 10 am–4 pm
Nsombi Woodson | Online | 231FDN300FO

4 Tuesdays, 1/10–1/31, 10 am–2:30 pm
Thomas Cawley | NYBG | 233FDN300A

Tuesday–Friday, 1/17–1/20, 10:30 am–3 pm
Barbara Mele | Manhattan | 233FDN300B

Wednesday–Friday, 2/1–2/3, 10 am–4 pm
Nsombi Woodson | Online | 233FDN300CO

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*

4 Tuesdays, 10/11–11/1, 10 am–2:30 pm
Nsombi Woodson | NYBG | 232FDN302A

4 Saturdays, 10/15–11/12 (no class 10/29),
10:30 am–3 pm
Barbara Mele | Manhattan | 232FDN302B

Tuesday–Friday, 1/24–1/27, 10:30 am–3 pm
Barbara Mele | Manhattan | 233FDN302C

4 Tuesdays, 2/21–3/14, 10 am–2:30 pm
Thomas Cawley | NYBG | 233FDN302D

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. See website for materials list. | \$195/\$215 *Certificate Requirement*

3 Thursdays, 9/22–10/6, 6–8:30 pm
Rose G. Edinger | Online | 231FDN306CO

3 Tuesdays, 11/29–12/13, 6–8:30 pm
Rose G. Edinger | Online | 232FDN306AO

3 Mondays, 3/13–3/27, 6–8:30 pm
Rose G. Edinger | Online | 233FDN306BO

SHOPPING THE NEW YORK FLOWER MARKET

Learn to navigate the bustling New York flower district! Discover where to get the best flowers and hard goods from the pros. Your confirmation email will include where we will meet in the flower district. Lunch is not included. Dress for the weather. **P** Prerequisite: *Fundamentals of Form* \$95/\$105 *Certificate Requirement*

Wednesday, 9/21, 9 am–12:30 pm
Nsombi Woodson | Off site | 231FDN400C

Thursday, 11/17, 9 am–12:30 pm
Nsombi Woodson | Off site | 232FDN400A

Wednesday, 3/29, 9 am–12:30 pm
Nsombi Woodson | Off site | 233FDN400B

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. See website for materials list. \$195/\$215 *Certificate Requirement*

3 Thursdays, 10/20–11/3, 6–8:30 pm
Rose G. Edinger | Online | 232FDN308AO

3 Mondays, 1/23–2/6, 6–8:30 pm
Rose G. Edinger | Online | 233FDN308BO

3 Thursdays, 3/2–3/16, 6–8:30 pm
Rose G. Edinger | Online | 233FDN308CO

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 boutonnières 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*

Tuesday–Thursday, 11/8–11/10, 10 am–4 pm
Nsombi Woodson | NYBG | 232FDN304A


Tuesday–Friday, 1/31–2/3, 10:30 am–3 pm
Barbara Mele | Manhattan | 233FDN304B

4 Tuesdays, 3/28–4/18, 10 am–2:30 pm
Thomas Cawley | NYBG | 233FDN304C



WEDDING DESIGN II: CEREMONY & RECEPTION

Design and create arrangements appropriate for the ceremony, season, and setting, including aisle and altar designs, pew arrangements, and banquet table centerpieces. Work with a remarkable array of flowers, foliage, and fabrics to create captivating garlands and columns.

Discussions include a variety of ceremonial styles, including chuppahs, in both outdoor and indoor venues. \$245 materials fee.  Prerequisite: *Wedding Design I* | \$395/\$435 *Certificate Requirement*

4 Tuesdays, 11/29–12/20, 10 am–2:30 pm
Nsombi Woodson | NYBG | 232FDN305


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. \$30 materials fee. \$195/\$215 *Certificate Requirement*

2 Thursdays, 10/27 & 11/3, 10 am–2:30 pm
Chris Raimondi, CLP | NYBG | 232FDN310A

2 Fridays, 3/10 & 3/17, 10 am–2:30 pm
Chris Raimondi, CLP | NYBG | 233FDN310B

EVENT PLANNING FOR THE FLORAL DESIGNER

In addition to exquisite design, a successful event requires a well-conceived plan. Learn how to write a sales proposal based on cost analysis, finalize the terms of the design contract, and order and organize materials, personnel, and deliveries, all within a specified budget and timeline. Learn how to stage décor for large-scale event arrangements, design cocktail receptions, and develop formal and informal tablescape. \$185 materials fee.  Prerequisite: *Wedding Design II* | \$285/\$315 *Certificate Requirement*

3 Thursdays, 1/12–1/26, 10 am–2:30 pm
Thomas Cawley | NYBG | 233FDN504

MODERN SYMPATHY DESIGNS

Sympathy arrangements, properly composed, pay tribute to a departed loved one and offer solace to the grieving. There are details to be discussed with a bereaved family, special etiquette to be observed, and a wide choice of designs that make a touching statement of final tribute. Construction and mechanic of funeral baskets, casket sprays, and set pieces associated with a diversity of cultural traditions are emphasized. \$170 materials fee.

 Prerequisite: *Fundamentals of Form* | \$179/\$195 *Certificate Requirement*

Saturday, 2/25, 10 am–4:30 pm
Ken Norman | NYBG | 233FDN382

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. \$225 materials fee.

 Prerequisite: *Wedding Design II* | \$229/\$255 *Certificate Requirement*

Wednesday & Thursday, 3/22 & 3/23, 10 am–2:30 pm
Nsombi Woodson | NYBG | 233FDN502

SEASONAL WORKSHOPS



GOthic STYLE: DARK AND DRAMATIC

Channel windswept moors and foreboding castles and covens as you create a haunting floral design 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. | \$115/\$125 *Certificate Elective*

Wednesday, 10/26, 6–9 pm | Joshua Werber | Manhattan | 232FDN307

THANKSGIVING MODERN HARVEST TABLETOP

Learn step-by-step instructions in crafting a modern fall woodland arrangement with pincushion proteas, mango Mokara orchids, and heirloom chrysanthemums. Our autumnal theme, in a glass container, will reflect a modern woodland design with glycerin oak leaves, berries, reeds, and vines. Learn tips to showcase an eclectic tabletop of flowers, textures, tableware, props, and linens that complete the harvest ambience. \$85 materials fee. \$115/\$125 *Certificate Elective*

Friday, 11/4, 11 am–1 pm | Trish O'Sullivan | NYBG | 232FDN322

HOLIDAY GREENS

The holidays come to life with fragrant, long-lasting decorations for your door, table and mantel. Explore working with fresh pine, fir, cedar, boxwood, juniper and arborvitae. Cones and berries will add seasonal interest. Personalize your projects with accents of ribbons and millimeter balls. \$80 materials fee. \$135/\$149 *Certificate Elective*

Saturday, 12/3, 10 am–3:30 pm | Ken Norman, AIFD | NYBG | 232FDN335A

MAGNOLIA LEAF WREATH

Southern charm and hospitality come front and center with a glossy, richly decorated wreath of magnolia leaves on a door, mantel, or accent wall. Weave leaves into a wreath form, then complement shape and color with seasonal fruit, pine cones, holly, and other greenery. \$65 materials fee. \$125/\$139 *Certificate Elective*

Monday, 12/12, 10 am–2:30 pm | Thomas Cawley | NYBG | 232FDN355

WINTER WHITE CENTERPIECE & TABLESCAPE

Create a Dutch Masters still-life inspired centerpiece crafted from seasonal flowers and herbs, including roses, calla lilies, ranunculus, hydrangeas, rosemary, berries, pine, and eucalyptus stems. We'll also discuss the best choices for napkin and candle decoration to invoke warm yuletide cheer. \$125 materials fee. | \$115/\$125 *Certificate Elective*

Thursday, 12/15, 11 am–1 pm | Trish O'Sullivan | NYBG | 232FDN320



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.

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	24
Introduction to Plant Science	HRT 300	16	24
Soil Science for Gardeners	GAR 302	12	24
Gardening with Native Plants	GAR 315	8	24
Insect Identification and Management	GAR 320	12	24
Disease Identification and Management	GAR 324	12	24
Fundamentals of Garden Design	GAR 342 P	12	24
Vegetable Gardening	GAR 431 P	12	24
Complete Garden Care and Maintenance	GAR 440 P	18	24
Pruning Principles and Practices	HRT 321	15	30
Plants for Landscaping	HRT 358	16	29
Plant Propagation I: Basic Principles	HRT 411 P	18	29
Elective GAR or HRT courses		23	
TOTAL REQUIRED HOURS		187	

ELECTIVES

Course	Code	Hours	Page
Garden Design Workshop	GAR 317	8	21
Container Gardening	GAR 327	8	24
Basic Color Theory for Gardeners	GAR 367	4	21
Gardening Strategies for the Climate Crisis	GAR 379	4	22
Botanical Latin	GAR 360	12	24
Super Small Space Veggie Gardening	GAR 330	9	23

**Courses offered in the Spring–Summer Catalog

P Courses with a prerequisite before you can register

For professional organizations, see p. 43.

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

REGISTER ONLINE AT NYBG.ORG/ADULTED
OR CALL 718.817.8720

**Basic Landscape Design For Gardeners****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. | \$95/\$105

2 Thursdays, 9/15 & 9/22, 6:30–8:30 pm
Michael Troy Brown | Manhattan | 231GAR173

2 Saturdays, 11/5 & 11/12, 10:30 am–12:30 pm
Sheri Forster | Online | 232GAR173AO

2 Wednesdays, 1/25 & 2/1, 10:30 am–12:30 pm
Sheri Forster | Online | 233GAR173BO

2 Mondays, 2/27 & 3/6, 10:30 am–12:30 pm
Sheri Forster | Online | 233GAR173CO

2 Saturdays, 3/25 & 4/1, 10:30 am–12:30 pm
Michael Troy Brown | Manhattan | 233GAR173D

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. | \$55/\$59

Thursday, 9/29, 6–8 pm
Daryl Beyers | Online | 231GAR222O

Wednesday, 11/2, 6–8 pm
Daryl Beyers | Online | 232GAR222AO

Saturday, 2/4, 10 am–12 pm
Richard Rosiello | NYBG | 233GAR222B

Sunday, 2/26, 10 am–12 pm
Daryl Beyers | Online | 233GAR222CO

Saturday, 3/18, 10 am–12 pm
Richard Rosiello | Manhattan | 233GAR222D

BASIC COLOR THEORY FOR GARDENERS

Learn how to effectively use color in plant combinations. Study the properties of value, hue, and intensity as they relate to choosing specific garden plants. Visual presentations and discussions are used to analyze various color schemes including analogous, sequential, complementary, and monochromatic. | \$95/\$105 *Certificate Elective*

2 Saturdays, 10/29 & 11/5, 10 am–12:30 pm
Sara Beazely | NYBG | 232GAR367A

2 Thursdays, 2/23 & 3/2, 6–8 pm
Laura McKillop | Online | 233GAR36BO

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, 11/6–11/20, 10 am–12:40 pm
Daryl Beyers | Online | 232GAR317AO

3 Wednesdays, 3/22–4/5, 6–8:40 pm
Daryl Beyers | Online | 233GAR317BO

Outdoor Plants

MASTERING THE ART OF TOMATO GARDENING

Learn how to plant and care for a healthy, organic tomato garden. We'll explore how to create trellises, manage pests and diseases, devise a fertilizing regimen, and select and store your most successful plants' seeds. | \$95/\$105

3 Wednesdays, 9/14–9/28, 6–7:30 pm
Annie Novak | Online | 231GAR143BO

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. | \$75/\$85

2 Thursdays, 9/22 & 9/29, 5–6:30 pm
Michael Hagen | Online | 231GAR287AO

2 Tuesdays, 4/4 & 4/11, 5–6:30 pm
Michael Hagen | Online | 234GAR287O

SHRUBS: THE BACKBONE OF THE GARDEN

Transform your garden into a low-maintenance, colorful space by selecting the right shrubs that will bring you pleasure for the entire growing season. We'll discuss the fabulous foliage and minimal upkeep required for new varieties on the market, as well as tried-and-true favorites. | \$75/\$85

Saturday, 9/24, 10 am–1 pm
Lorraine Ballato | NYBG | 231GAR241

WEATHERPROOF HYDRANGEAS

Gardening in areas with wildly fluctuating temperatures and conditions can be a tricky business if you desire colorful and robust hydrangea flowers. Learn what measures you can take to improve the growth and growth frequency of these favored blooms, starting with right plant, right place to much more. | \$55/\$59

Saturday, 10/1, 10 am–12 pm
Lorraine Ballato | Online | 232GAR272O

FALL DAHLIA WORKSHOP

Celebrated ceramicist Frances Palmer will share her secrets about growing the sumptuous dahlias featured on her wildly popular Instagram feed. She'll cover how to divide, plant, fertilize, and stake your spring tubers, in addition to how to dig up and store them over the winter. You'll also learn how to select blooms and compose simple, yet stunning flower arrangements. | \$75/\$85

Saturday, 10/15, 10 am–1 pm
Frances Palmer | NYBG | 232GAR279

GARDENING STRATEGIES FOR THE CLIMATE CRISIS

Small steps can have big effects. Learn how the plants you choose and the landscape practices you use can help reduce the impacts of climate change and improve the environment around you. \$95/\$105 *Certificate Elective*

2 Sundays, 10/16 & 10/23, 10 am–12 pm
Kim Eierman | Online | 232GAR379O

A KITCHEN GARDEN PLAN

Create your own kitchen garden designed around the food you love to eat—be it outside your back door or on your windowsill. You'll design a planting plan using historic examples and modern best practices and walk away with the techniques to maximize health and harvest, such as companion planting and succession sowing. | \$55/\$59

Wednesday, 3/29, 6 pm–8 pm
Annie Novak | Online | 233GAR155O

DAUNTLESS DAHLIAS

Low-maintenance dahlias thrive in our coastal climate. When they bloom in mid-July, their spiky, colorful blossoms brighten up gardens and flower beds across the city. Learn best practices to help your dahlias flourish, including how and when to disbud, stake, water, and much more. | \$75/\$85

Saturday, 3/11, 10 am–1 pm
Frances Palmer | NYBG | 233GAR243

VERTICAL GARDENING: VINES & CLIMBERS

Clematis, wisteria, roses, hardy jasmine, hydrangea, and other climbers provide strong vertical design, create outdoor enclosures, and transform unattractive structures. Learn to select and train the right plant for your space. | \$75/\$85

Wednesday, 3/15, 6–9 pm
Doris Loechle | Manhattan | 233GAR146

Becoming a Gardener



“Being a gardener is... about your imagination, memories, dreams, and life experiences made tangible.”

An expert on urban green spaces and former contributing editor for *Vogue*, Catie Marron shares insights from her most recent book, *Becoming a Gardener*, which weaves her personal story of becoming an exuberant gardener with meditations on the deep impact gardening has on our lives. Take heart from the ways in which she finds both joy and solace through gardening and inspiration from the wisdom she has found in the work of lauded authors, designers, and thinkers, including Cicero, Gertrude Jekyll, Jamaica Kincaid, and Michael Pollan. | \$15/\$18

Thursday, 10/27, 11 am–12 pm
Catie Marron | NYBG | 232GAR829

Indoor Plants

BONSAI FOR BEGINNERS WORKSHOP

Learn how to turn ordinary nursery stock into a living work of art. We'll cover the five major styles of bonsai along with plant and container selection, branch and root pruning, wiring, and potting. Please bring sturdy chopsticks and good pruning shears to class. | \$195/\$215

Saturday, 10/29, 11 am–4:30 pm
John Capobianco | Manhattan | 232GAR912A

Saturday, 11/5, 11 am–4:30 pm
John Capobianco | NYBG | 232GAR912B

ORCHIDS FOR BEGINNERS

Though orchids are the most common houseplant in America, many people still feel slightly intimidated by caring for them. Learn the basics! Explore how these beauties grow in nature and what that can teach us about keeping your plants healthy. | \$55/\$59

Friday, 11/4, 11 am–1 pm
Barbara Schmidt | Online | 232GAR213A0

Sunday, 3/19, 11 am–1 pm
Barbara Schmidt | NYBG | 233GAR213B0

INDOOR TROPICALS

Are you looking to up your houseplant game? We can help! We'll walk you through many different species with stunning foliage or flowers—including bromeliads and palms—that will bring a hint of the sun-drenched tropics to your home. We'll discuss the light, soil, water, and maintenance requirements of a broad array of plants, so you can select which plants are right for you. | \$75/\$85

Saturday, 12/3, 10 am–1 pm
Michael Troy Brown | Manhattan | 232GAR289A

Saturday, 2/11, 10 am–1 pm
Michael Troy Brown | Manhattan | 233GAR289B

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, 1/21, 10 am–12 pm
Jim Freeman | Manhattan | 233GAR233

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, 2/7, 6–8 pm
Nick Gershberg | Online | 233GAR2880

INSTRUCTOR BIOS CAN BE FOUND ONLINE
AT NYBG.ORG/ADULTED

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. | \$55/\$59

Wednesday, 10/26, 6–8 pm
Pamela Davis | Online | 232GAR1850

SUPER SMALL SPACE VEGGIE GARDENING

Whether you have a terrace, rooftop, or tiny backyard, you too can be a successful veggie gardener! Learn how to prepare soil, select containers, design beds, choose crops, and maximize your yield. Get your spring started with smart seed ordering, growing and choosing the right transplants, and strategizing for irrigation and pest management. | \$115/\$125 *Certificate Elective*

3 Wednesdays, 3/8–3/22, 6–7:30 pm
Annie Novak | Online | 233GAR3300

PRUNING BIG LEAF AND MOUNTAIN HYDRANGEAS

Pruning hydrangeas can be one of the most confusing chores in the garden. In this class, you'll explore the pruning needs of the two most common and similar hydrangeas—the big leaf and mountain varieties. Hydrangea expert Lorraine Ballato will teach you how to properly examine what stays and what goes, and discuss the best time to prune during the gardening season. Time to clear the air once and for all! | \$75/\$85

Sunday, 3/12, 11 am–2 pm
Lorraine Ballato | NYBG | 233GAR177

RAISED BED GARDENING

Raised beds make gardening easier and allow you to successfully grow vegetables, herbs, and ornamentals in problem soils and small spaces. Learn the best ways to build raised beds, as well as how to maximize their beauty and productivity. \$55/\$59

Sunday, 3/19, 10 am–12 pm
Nick Storrs | Online | 233GAR2800

PRUNING: HOW, WHEN, AND WHERE

Learn proper pruning techniques for maintaining shrubs, evergreens, hedges, and trees. Recommended tool choices and their maintenance will be discussed. Shrub pruning demonstration included. | \$95/\$105

Sunday, 3/26, 10:30 am–2:30 pm
Ann Perkowski | NYBG | 233GAR236



Building Community Capacity Through Farming

In spring 2020, NYBG's Bronx Green-Up joined with Bronx-based gardens and urban farms to address food insecurity by growing and distributing fresh fruits and vegetables to local people in need. Since then, this network has grown into a movement that unites community garden sites and BIPOC-led farms Upstate with local non-profit organizations and the New York City Housing Authority for a more resilient community.

Join us for an inspiring panel discussion about organizing, gardening, and community building with **Cayla Casciani** of Morning Glory Community Garden, **Regina Ginyard** of South Bronx Food Hub Collective, and **Kadeesha Williams** of Iridescent Earth Collective, moderated by **Ursula Chanse**, Senior Director of NYBG's Bronx Green-Up. | \$15/\$18

Friday, 10/7, 12–1 pm | Online | 232GAR8160



Ursula Chanse



Cayla Casciani



Regina Ginyard



Kadeesha Williams



CERTIFICATE CLASSES

Open to Non-Certificate students

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 Tuesdays, 10/4–11/8, 6–8 pm
Daryl Beyers | Online | 232GAR301AO

6 Saturdays, 10/29–12/10 (no class 11/26),
10:30 am–12:30 pm
Pamela Davis | NYBG | 232GAR301B

6 Wednesdays, 10/26–12/14 (no class 11/16 &
11/23), 10 am–12 pm
Renee Marsh | Online | 232GAR301BO

6 Mondays, 1/23–3/6 (no class 2/20), 6–8 pm
Daryl Beyers | Online | 233GAR301DO

6 Wednesdays, 3/1–4/5, 10 am–12 pm
Renee Marsh | Online | 233GAR301EO

6 Tuesdays, 3/14–4/18, 10:30 am–12:30 pm
Jennifer Cappello-Ruggiero | NYBG | 233GAR301FO

BOTANICAL LATIN

Review the rules of taxonomy, Latin grammar, and pronunciation, and learn the history of the binomial system in use today. | \$295/\$325 *Certificate Elective*

6 Mondays, 3/13–4/24 (no class 4/10),
10:30 am–12:30 pm
Jennifer Bakshi | Online | 233GAR360O

GARDENING WITH NATIVE PLANTS

Learn how native plants enhance gardens and augment biodiversity. Study native herbaceous and woody plants: their identification, habitat, and culture. Hear about the significance of woodland soils, and how to promote a healthy environment to support spring ephemerals, summer perennials, shrubs, and trees. | \$215/\$239 *Certificate Requirement*

4 Fridays, 1/27–2/17, 10 am–12 pm
Kim Eierman | Online | 233GAR315AO

4 Tuesdays, 2/28–3/21, 6–8 pm
Kim Eierman | Online | 233GAR315BO

COMPLETE GARDEN CARE AND MAINTENANCE

Learn sustainable garden and landscape maintenance techniques, including planting methods, plant care, and maintenance regimens for trees, shrubs, lawn, and perennial gardens. Discuss site analysis and plant selection, organic gardening practices, and how to create a calendar of landscape and garden tasks. | \$445/\$489 *Certificate Requirement*

9 Sundays, 9/18–11/20 (no class 10/9),
10:30 am–12:30 pm
Jennifer Cappello-Ruggiero | NYBG & Online
231GAR440BL

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 Fridays, 9/30–10/21, 10 am–12 pm
Renee Marsh | Online | 231GAR327BO

2 Saturdays, 3/18–3/25, 10 am–2:30 pm
Damon Arrington | Manhattan | 233GAR327

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 class as *Soil Science* | (HRT301). | \$285/\$315 *Certificate Requirement*

7 Thursdays, 10/20–12/8 (no class 11/24) ☞,
10:30 am–12:30 pm
Duncan Himmelman | NYBG | 232GAR302A

6 Wednesdays, 1/11–2/15, 6:30–8:30 pm
David Bulpitt | Online | 233GAR302BO

6 Wednesdays, 3/22–4/26, 6:30–8:30 pm
David Bulpitt | Online | 233GAR302CO

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. | \$265/\$289 *Certificate Requirement*

6 Thursdays, 10/13–11/17, 6:15–8:15 pm
Stephen Nocera | Online | 232GAR431AO

6 Tuesdays, 2/21–3/28, 6:15–8:15 pm
Nick Storrs | Online | 233GAR431BO

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. | \$285/\$315 *Certificate Requirement*

5 Thursdays, 11/10–12/15 (no class 11/24),
10 am–12:30 pm
Sheri Forster | Online | 232GAR342A

5 Tuesdays 2/21–3/21, 6–8:30 pm
Daryl Beyers | Online | 233GAR342BO

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. Note: This is not the same class as HRT381 with the same name. | \$285/\$319 *Certificate Requirement*

6 Tuesdays, 10/25–12/6 (no class 11/8), 6:15–8:15 pm
Mark Kokinchak | Online | 231GAR320O

6 Fridays, 2/24–3/31, 6–8 pm
Mark Kokinchak | Online | 233GAR320O

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 Tuesdays, 1/10–2/14, 6:15–8:15 pm
Mark Kokinchak | Online | 233GAR324O

INSTRUCTOR BIOS CAN BE FOUND ONLINE
AT NYBG.ORG/ADULTED

Saturday Gardening Workshops

All About Containers Saturday

October 1 | NYBG | 10 am–5 pm

CONTAINER GARDENING 101

Learn the basics for planting and maintaining a healthy outdoor container garden: materials and container styles, potting mixes, fertilization, and watering. | \$55/\$59

Michael Troy Brown | 232GAR200B
10 am–12 pm

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. | \$55/\$59

Kim Eierman | 232GAR200C | 12:45–2:45 pm

DESIGNING WITH CONTAINERS

Learn a comprehensive approach to designing with containers, including how, when, where and why you should use a particular pot in one spot over another. Gain tips and tricks for great plant combinations in containers of all kinds and walk away with a container of plants you potted up! \$75/\$85

Michael Troy Brown | 232GAR200D | 3–5 pm

All Three Sections: \$165/\$189 | 232GAR200A

Apartment Gardener's Saturday

October 22 | Manhattan | 10 am–5 pm

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. | \$55/\$59

Chris Raimondi, CLP | 232GAR299B
10 am–12 pm

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. | \$55/\$59

TBD | 232GAR299C | 12:45–2:45 pm

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. | \$55/\$59

Christopher Satch | 232GAR299D | 3–5 pm

All Three Sections: \$125/\$139 | 232GAR299A

Wake Up Your Garden! Saturday

February 25 | NYBG | 10 am–5 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. | \$55/\$59

Jennifer Cappello-Ruggiero | 233GAR225B
10 am–12 pm

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. | \$55/\$59

Duncan Himmelman | 233GAR225C
12:45–2:45 pm

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. | \$55/\$59

Michael Ruggiero | 233GAR225D | 3–5 pm

All Three Sections: \$125/\$139 | 233GAR225A





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.

CERTIFICATE REQUIREMENTS

Course	Code	Hours	Page
Plant Production TRACK 1			
Introduction to Plant Science	HRT 300	16	28
Soil Science I: Physical Properties	HRT 301	18	28
Soil Science II: Chemistry and Nutrition	HRT 302 P	18	28
Horticultural Techniques: Greenhouse Practices	HRT 312 P	15	30
Insect Pests of Landscape Plants**	HRT 381 P	18	—
Plant Propagation I: Basic Principles	HRT 411 P	18	29
Plant Propagation II: Applications	HRT 412 P	18	30
Disease Identification & Management	HRT 481 P	18	30
Nursery and Greenhouse Management	HRT 491 P	24	29
TOTAL REQUIRED HOURS		163	

Course	Code	Hours	Page
Sustainable Landscape Management TRACK 2			
Introduction to Plant Science	HRT 300	16	28
Soil Science I: Physical Properties	HRT 301	18	28
Soil Science II: Chemistry and Nutrition	HRT 302 P	18	28
Horticultural Techniques: Landscape Gardening**	HRT 311 P	18	—
Pruning Principles and Practices	HRT 321 P	15	30
Basic Design and Installation of Irrigation Systems	HRT 323	12	30
Business Practices for the Landscape Professional	LAN 457	12	30
Insect Pests of Landscape Plants**	HRT 381 P	18	—
Tree Management	HRT 422 P	14	29
Landscape Management	HRT 443 P	24	38
Disease Identification & Management	HRT 481 P	18	30
Invasive Weed ID & Management	HRT 482 P	12	30
Mathematics for Horticulturists	HRT 356	6	31
TOTAL REQUIRED HOURS		201	

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.

Course	Code	Hours	Page
Arboriculture TRACK 3			
Introduction to Plant Science	HRT 300	16	28
Soil Science I: Physical Properties	HRT 301	18	28
Soil Science II: Chemistry and Nutrition	HRT 302 P	18	28
Tree Climbing for Arborists	HRT 304	15	29
Chainsaws: Use, Safety, and Maintenance	HRT 308	6	30
Pruning Principles and Practices	HRT 321 P	15	30
Landscape Plants: Fall Trees and Shrubs	HRT 331 P	12	29
Landscape Plants: Conifers	HRT 333 P	12	31
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	29
Urban Tree Care	HRT 426 P	12	31
Winter Tree Identification	HRT 440 P	8	30
Disease Identification & Management	HRT 481 P	18	30
TOTAL REQUIRED HOURS		194	

Sustainable Garden Design TRACK 4

Introduction to Plant Science	HRT 300	16	28
Soil Science I: Physical Properties	HRT 301	18	28
Landscape Plants: Broadleaved Evergreens	HRT 332 P	9	29
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	29
Landscape Plants: Annuals**	HRT 341 P	8	—
Landscape Plants: Bulbs	HRT 342 P	12	31
Annual and Perennial Garden Maintenance	HRT 344 P	8	30
Plants for Landscaping	HRT 358	16	29
Plant Communities	HRT 353	6	29
Sustainable Garden Care	HRT 395 P	8	31
Sustainable Garden Design	HRT 551 P	20	31
Landscape Design History	LAN 301	24	37
Graphics I	LAN 311	24	37
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.43.

QUESTIONS? CONTACT PROGRAM COORDINATOR
RICHARD SMITH, AT HRTCOORDINATOR@NYBG.ORG

EXPAND YOUR SKILL SET

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 Sundays, 10/23–11/6, 11 am–1 pm
Anne Marie Breyer | Online | 232HRT142AO

3 Thursdays, 12/1–12/15, 6–8 pm
Anne Marie Breyer | Online | 232HRT142BO

3 Tuesdays, 1/10–1/24, 6–8 pm
Anne Marie Breyer | Online | 233HRT142CO

3 Thursdays, 2/16–3/9 (no class 2/23), 6–8 pm
Anne Marie Breyer | Online | 233HRT142DO

3 Mondays, 3/13–3/27, 6–8 pm
Anne Marie Breyer | Online | 233HRT142EO

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 an extra emphasis on hydroponic production. We'll also cover the fundamentals of laws regulating cannabis production in the tri-state area. | \$195/\$215

6 Wednesdays, 11/2–12/14 (no class 11/23), 6–8 pm
Matthew DeBacco & Kelley Crosson | Online | 232HRT156AO

6 Mondays, 1/23–3/6 (no class 2/20), 6–8 pm
Matthew DeBacco & Kelley Crosson | Online | 233HRT156BO

6 Wednesdays, 3/8–4/19 (no class 4/5), 6–8 pm
Matthew DeBacco & Kelley Crosson | Online | 233HRT156CO

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, 2/7–3/7, 6:15–8:15 pm
Maya Kutz & Kate Lodvikov | Online | 233HRT141O



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 Saturdays, 9/17–11/12 (no class 10/8), 10:30 am–12:30 pm
Leslie Day | Online | 231HRT300HO

6 Thursdays, 10/6–11/10, 2–5 pm
Levi O'Brien | NYBG | 232HRT300A

8 Mondays, 10/17–12/12 (no class 10/31), 6–8 pm
Martha Bucuvalas | Online | 232HRT300BO

8 Tuesdays, 10/25–12/13, 6–8 pm
Anna Bakis | Online | 232HRT300CO

8 Tuesdays, 1/10–2/28, 6–8 pm
Martha Bucuvalas | Online | 233HRT300DO

8 Saturdays, 1/21–3/18 (no class on 2/18), 10:30 am–12:30 pm
Leslie Day | Online | 233HRT300EO

6 Tuesdays, 2/7–3/14, 10 am–1 pm
Levi O'Brien | NYBG | 233HRT300F

8 Mondays, 3/6–5/1 (no class 4/10), 6–8 pm
Nina Naghshineh | Online | 233HRT300GO

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

9 Wednesdays, 10/5–12/7 (no class 11/23), 6:30–8:30 pm
David Bulpitt | Online | 232HRT301AO

9 Saturdays, 1/7–3/18 (no class 1/14 & 2/18), 10:30 am–12:30 pm
Katharhy | Online | 233HRT301BO

9 Saturdays, 1/21–4/1 (no class 2/18 & 3/18), 1–3 pm
David Bulpitt | Online | 233HRT301CO

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

Go beyond basic soil chemistry and examine how a soil's pH affects what nutrients are available to plants. Explore the ionic exchange capacities of soil, the complex nitrogen cycle, and the effects of composted soil amendments and fertilizers. Discover how soil and plant tissue tests can help monitor plant nutrition and health.  Prerequisite: *Soil Science I* | \$395/\$445

9 Mondays, 9/19–11/21, 6:30–8:30 pm
David Bulpitt | NYBG | 231HRT302O

LANDSCAPE PLANTS: 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.

P Prerequisite: *Intro to Plant Science* | \$219/\$239

5 Saturdays, 10/22–11/19 , 10:30 am–12:45 pm
Vincent Simeone | NYBG | 233HRT332A

5 Fridays, 2/24–3/24 , 10:30 am–12:45 pm
Vincent Simeone | NYBG | 233HRT332B

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. **P** Prerequisite: *Intro to Plant Science* \$295/\$325

6 Tuesdays, 9/13–10/25 (no class 9/27), 4–6 pm
Michael Hagen | NYBG | 231HRT338A

5 Thursdays, 9/29–10/27 , 11 am–2 pm
Avvah Rossi | NYBG | 231HRT338C


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. | \$169/\$185

2 Wednesdays, 11/2–11/9, 6–7:30 pm &
Saturday, 11/5, 10–1 pm
Sarah Bray | NYBG & Online | 232HRT353BL

TREE MANAGEMENT TRACK 2

Explore a holistic approach to keeping trees healthy and vigorous. Topics include planting and transplanting, pruning, fertilization, root system management, common problems, tree defenses, and lightning protection. Samples of tree problems, supplies, and tools are exhibited. | \$335/\$369

8 Wednesdays, 9/14–11/9 (no class 10/5) , 5–7 pm
Trevor Hall | NYBG | 231HRT422

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

 Exam on last class date.


REGISTER ONLINE AT NYBG.ORG/ADULTED
OR CALL 718.817.8720

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. **P** Prerequisite: *Intro to Plant Science* | \$479/\$525

6 Wednesdays, 9/28–11/9 (No class 10/5),
5:30–8:30 pm
Mobee Weinstein | NYBG | 231HRT411D

6 Mondays, 2/27–4/3, 5:30–8:30 pm
Mobee Weinstein | NYBG | 233HRT411A

7 Mondays, 3/6–4/17 , 10 am–1 pm
Michael Ruggiero | NYBG | 233HRT411B

TREE CLIMBING FOR ARBORISTS TRACK 3

This course is designed for people interested in arboriculture. Learn techniques such as rope setting, knot tying, body thrusting, doublecrotching, foot locking, and limb walking. The goal of the course is for each student to improve his or her climbing skills. Taught on Garden grounds, this class offers expert instruction and critique. Wear comfortable clothing, sturdy work or hiking boots, and light leather or cloth gloves. All other equipment is provided. | \$425/\$469

3 Saturdays, 9/17–10/1 (Rain date 10/15),
9 am–2:30 pm
Julian Picciano and Francisco D'Avila | NYBG
231HRT304

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. | \$395/\$435

7 Sundays, 9/18–11/13 (no class 9/25 & 10/9),
10 am †
Shauna Moore | NYBG & Online | 231HRT358EBL


6 Wednesdays, 10/12–11/16, 10 am †
Jennifer Cappello-Ruggiero | NYBG & Online
232HRT358ABL

6 Saturdays, 4/15–5/20, 10 am–12:40 pm
Valerie D'Antonio | NYBG | 234HRT358A

6 Sundays, 4/16–5/21, 10 am–1 pm
Timothy Nolan | NYBG & Online | 234HRT358BBL

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. **P** Prerequisite: *Intro to Plant Science* | \$295/\$325

7 Saturdays, 9/24–11/2 (no class 10/8) ,
10 am–12 pm
Timothy Nolan | NYBG & Online | 231HRT331ABL

4 Thursdays, 10/13–11/3, 10 am–1 pm
Levi O'Brien | NYBG | 232HRT331B

**NEW! GROWING COLD HARDY FRUITS AND NUTS**

Expand your plant palette by adding low-maintenance fruiting plants that thrive in cold-temperature growing regions—from Arctic kiwi to jujube, medlar to heartnut. Allyson Levy and Scott Serrano, the co-directors of the Hudson Valley's Hortus Arboretum, will highlight a wide variety of productive, edible crops that have few pest and disease problems and are appropriate for farmers, gardeners, and landscapers at every scale. | \$15/\$18

Tuesday, 3/7, 6:30–7:30 pm
Allyson Levy and Scott Serano | Online | 233HRT2100

NURSERY & GREENHOUSE MANAGEMENT TRACK 1

Learn the basic principles and best practices of greenhouse and nursery construction and design, and commercial greenhouse and field plant production. Understand how to manage a commercial growing operation, including site selection, planning and layout, and production methods of greenhouse and nursery crops, both in the field and in containers. The course includes a field trip to area nurseries. 📖 Prerequisite: *Intro to Plant Science* | \$549/\$605

8 Tuesdays, 10/11–11/29 🕒 5–7:30 pm
Plus an all-day field trip Friday, 11/4, 8 am–4 pm
Kelly Ivanoski | NYBG | 232HRT491S

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. 📖 Prerequisite: *Intro to Plant Science* | \$475/\$495

4 Thursdays, 10/13–11/3, 6:15–8:30 pm, and 3 Saturdays, 10/15–10/29, 10 am–1 pm
Mark Kokinchak | NYBG & Online | 232HRT481BL

INVASIVE WEED IDENTIFICATION & MANAGEMENT TRACK 2

Students will be introduced to the topics of invasion biology and weed management and their related terminology. Approximately 60 invasive or weed species common throughout the northeast region of the United States will be presented, with a focus on woody species. Management techniques and management plans will also be discussed. Field walks will be given on NYBG grounds. 📖 Prerequisite: *Intro to Plant Science* | \$355/\$395

4 Saturdays, 10/15–11/5, 10:30 am–1:30 pm
Erica DeLuca | NYBG | 232HRT482

BUSINESS PRACTICES FOR THE LANDSCAPE PROFESSIONAL TRACK 2

Study how to effectively organize and operate a small landscape business that will sustain itself and earn a profit. Learn 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 Thursdays, 1/12–2/16, 10:15 am–12:15 pm
Jessica Zavaglia | Online | 233LAN4570

**PRUNING PRINCIPLES AND PRACTICES TRACKS 2 & 3**

Through classwork 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. 📖 Prerequisite: *Intro to Plant Science* | \$385/\$425

6 Tuesdays, 11/1–12/13 (no class 11/8) 🕒 10 am–1 pm
Bill Logan | NYBG | 232HRT321A

6 Fridays, 1/13–2/17 🕒 10 am–1 pm
Bill Logan | NYBG | 233HRT321B

6 Saturdays, 1/21–3/4 (no class 2/18) 🕒 1–4 pm
Samuel Bishop | NYBG | 233HRT321C

6 Tuesdays, 2/21–3/28 🕒 10 am–1 pm
Bill Logan | NYBG | 233HRT321D

HORTICULTURAL TECHNIQUES: GREENHOUSE PRACTICES

This course introduces students to the practical skills required for growing plants in greenhouses with an emphasis on integrated management techniques. Topics include structures and equipment, soils and other growing media, irrigation and fertilization practices, potting and repotting, and cultural practices. | \$359/\$395

6 Wednesdays, 11/2–12/14 (no class 11/23), 2–5 pm
Toshi Yano | NYBG | 232HRT312P

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* | \$495/\$539

4 Tuesdays, 1/24–2/14, 5–8 pm;
Plus an all-day field trip TBA, 7:30 am–4 pm
Mobee Weinstein | NYBG | 233HRT412

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. 📖 Prerequisite: *Intro to Plant Science* | \$295/\$325


5 Tuesdays, 1/10–2/7, 1–3 pm
Bill Logan | NYBG | 233HRT440

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 keys to success. This lecture-demonstration course by an ISA-certified arborist teaches you the basics of chainsaw use and care, sharpening, and bar tensioning. | \$145/\$159

Saturday, 1/21, 9 am–3:30 pm
Julian Picciano | NYBG | 233HRT308

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 Wednesdays, 1/25–2/15, 10 am–12 pm
Erika Hanson Moore | Online | 233HRT3440

BASIC DESIGN AND INSTALLATION OF IRRIGATION SYSTEMS TRACK 2

Learn how to design, install, and maintain conventional, specialty drip, and micro-drip irrigation systems. Drip systems are useful for rooftop and terrace gardens, planters, raised beds, and many landscape and nursery production systems. We will cover basic hydraulics and review the best irrigation products. Learn to troubleshoot, practice visual maintenance, and identify service requirements. Design books supplied. | \$295/\$329


Thursday & Friday, 1/26 & 1/27, 10 am–4:30 pm
Steve Dobossy | NYBG | 233HRT323

LANDSCAPE PLANTS: 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


7 Thursdays, 2/2–3/16 , 10 am–12 pm
Michael Ruggiero | NYBG | 233HRT333

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


2 Saturdays, 1/21 & 3/18, 10 am–2 pm, and
6 Mondays, 1/23–3/13 (no class 2/20 & 2/27),
6–8 pm
Ty Tan | NYBG & Online | 233HRT551BL

SUSTAINABLE GARDEN CARE TRACK 3

Explore how to create a healthy garden while supporting biodiversity and conserving resources. We'll discuss ways to minimize water usage, effectively handle stormwater, create a healthy soil food web, and use non-toxic alternatives to maintain optimal plant health.  Prerequisite: *Intro to Plant Science* and *Soil Science I* | \$195/\$215


4 Saturdays, 2/4–3/4 (no class 2/18),
10:30 am–12:30 pm
Steve Conaway | NYBG | 233HRT395


URBAN TREE CARE TRACK 3

Soil compaction, construction damage, and land development practices can lead to tree decline and early tree mortality. Examine the biology of trees, and learn how they respond to changes in the urban environment. Explore techniques for assessing and preserving tree health and vigor, as well as new diagnostic tools and methods for tree and site analysis in developed urban sites.  Prerequisite: *Intro to Plant Science* | \$295/\$325


6 Saturdays, 3/4–4/15 (no class 4/8), 9 am +
Julian Picciano | NYBG & Online | 233HRT426BL

LANDSCAPE PLANTS: BULBS TRACK 4

This course is designed for horticulturists, gardeners, or designers who want to learn to identify and classify familiar and unusual spring-, summer-, and autumn-flowering bulbs. We will also focus on understanding their biology.  Prerequisite: *Intro to Plant Science* | \$295/\$325

7 Thursdays, 3/16–5/4 (no class 4/6) ,
10 am–12 pm
Marta McDowell | NYBG | 233HRT342

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

9 Thursdays, 3/16–5/18 (no class 4/6),
4:30–7:30 pm
David Laswell | NYBG | 233HRT443

MATHEMATICS FOR HORTICULTURISTS TRACK 2

This course is designed for horticulturists who are responsible for maintaining outdoor landscapes. We will cover how to calculate area to help estimate plant and soil needs, apply rates for fertilizers, and calculate amounts of soil amendments. | \$149/\$165

3 Wednesdays, 3/1–3/15 , 5–7 pm
Mabee Weinstein | Online | 233HRT3560





Therapeutic Horticulture

Our Therapeutic Horticulture Certificate emerges from a health and wellness model of human development, combined with research supporting nature as an effective therapeutic medium. Learn to create experiences that utilize plants, gardening, and nature to empower individuals and groups whose lives have been affected by illnesses, injuries, disabilities, and life circumstances in order to achieve improvements in their cognitive, physical, social, emotional, and spiritual well-being.

THE CERTIFICATE PROGRAM













Respected nationwide, NYBG's program trains students to design, implement, and operate innovative therapeutic horticulture programs in settings such as urban farms, healthcare facilities, schools, supportive housing, correctional facilities, and more. Whether you are embarking on a new career or are looking to integrate plants into your current work in human services, education, mental health, or another allied health field, our expert faculty—all highly experienced practitioners—are the ideal guides.

Upon completion of the program, students will be able to:



- Understand the characteristics and needs of service communities served through therapeutic horticulture programs
- Develop goals, activities, adaptations, and evaluation methods that fit the specific needs of an individual or group
- Select and care for a diverse group of plants suitable for use in indoor and outdoor settings
- Set up, operate, and effectively market a business that offers therapeutic horticulture services

CERTIFICATE REQUIREMENTS



Certificate students must complete 181 course hours, 10 site visit hours, and 100 hours of field experience. After completing all Therapeutic Horticulture requirements, students should contact the Program Coordinator to discuss options for their field experience.

Course	Code	Hours	Page
Introductory & Service Community Classes			
Introduction to Therapeutic Horticulture	THP 301	10	33
Therapeutic Horticulture for Older Adults	THP 401 	12	33
Therapeutic Horticulture for Youth with Disabilities	THP 402 	12	34
Therapeutic Horticulture for Mental Health	THP 404 	12	33
Therapeutic Horticulture for Neurological Conditions	THP 403 	12	34
Therapeutic Horticulture for Chronic Health Conditions	THP 405 	12	34
Foundations of Horticulture Classes			
Fundamentals of Gardening	GAR 301	12	24
Introduction to Plant Science	HRT 300	16	28
Plant Propagation I: Basic Principles	HRT 411 	18	29
Therapeutic Horticulture Techniques and Materials			
Accessibility in Therapeutic Horticulture Programming	THP 406 	8	34
Indoor Plants for Therapeutic Programs	THP 350 	8	34
Outdoor Plants for Therapeutic Programs**	THP 351 	8	—
Therapeutic Horticulture Activity Planning	THP 407 	10	34
Therapeutic Horticulture Program Management	THP 409 	10	34
Independent Study	THP 410 	5	
<i>Elective courses</i>			16
<i>Therapeutic Horticulture Site Visits (see note below)</i>			10
TOTAL REQUIRED HOURS		191	

ELECTIVES


Course	Code	Hours	Page
A Trauma-Informed Approach to Therapeutic Horticulture	THP 318 	6	34
Developing Cultural Competency in Therapeutic Horticulture Programs	THP 312 	6	34

SITE VISITS

Course	Code	Hours	Page
The G.R.O.W. Garden at the James J. Peters VA Medical Center	THR 546 	4	34
NYU Langone Medical Center, Therapeutic Horticultural Services	THR 525 	5	34

We are currently only able to offer limited trips to observe working programs at hospitals and other institutions. Site visits remain a Certificate requirement, and we plan to resume scheduling more of them as soon as it is safe to do so.

** Courses offered in Spring–Summer catalog

 Courses with a prerequisite before you can register

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

INTRODUCTION TO THERAPEUTIC HORTICULTURE

Explore the theoretical foundations and evidence-based research that supports using the people-plant relationship as a therapeutic tool to improve health and well-being. Engage in hands-on activities to discover the beneficial cognitive, physical, psychological, and social-emotional impacts associated with working with plants for a wide range of service communities. | \$395/\$445

4 Tuesdays, 10/11–11/1, 6–8:30 pm
Amy Wagenfeld, OTR-L, Ph.D. | Online | 232THP301AO


2 Tuesdays, 11/1–11/8, 4–6:30 pm & Saturday, 11/5, 9 am–2:30 pm
Anne Meore, LMSW, HTR | NYBG & Online | 232THP301BBL

4 Tuesdays, 1/10–1/31, 4–6:30 pm
Anne Meore, LMSW, HTR | Online | 232THP301CO

4 Tuesdays, 2/7–2/28, 4–6:30 pm
Amy Wagenfeld, OTR-L, Ph.D. | Online | 232THP301DO

2 Saturdays, 3/18–3/25, 9 am † & Tuesday, 3/28, 4–6:30 pm
Anne Meore, LMSW, HTR | NYBG & Online | 232THP301EBL


THERAPEUTIC HORTICULTURE FOR NEUROLOGICAL CONDITIONS

Learn about the physical, cognitive, and psycho-social changes that occur because of neurological conditions caused by stroke, traumatic brain injury, neuromuscular disorders, cerebral palsy, and spinal cord injury. We will explore the rehabilitative process and discuss how to adapt therapeutic horticulture activities to maintain optimal functioning while enhancing the quality of life for persons with these conditions.  Prerequisite: *Introduction to Therapeutic Horticulture* | \$419/\$459

3 Tuesdays, 10/11–10/25, 6:30–8:45 pm & Saturday, 10/29, 10 am–3:45 pm
Matthew Wichrowski, MSW, HTR | NYBG & Online | 232THP403A

3 Tuesdays, 1/17–1/31, 6:30–8:45 pm & Sunday, 2/5, 10 am–3:45 pm
Matthew Wichrowski, MSW, HTR | NYBG & Online | 232THP403B


THERAPEUTIC HORTICULTURE FOR MENTAL HEALTH

A growing body of evidence supports the use of horticulture for psychological well-being. Discover how therapeutic horticulture can be a preventative practice for all people in dealing with the stressors of the modern world and how it can be integrated into more formal behavioral health programs. Explore approaches using plants and gardening that can positively impact the healing process of mental health disorders such as depression, anxiety, and substance abuse.  Prerequisite: *Introduction to Therapeutic Horticulture* | \$419/\$459

2 Wednesdays, 10/12–10/19, 6:30–8:45 pm & 2 Sundays, 10/23–10/30, 10 am–3:45 pm
Hilda Krus, MSW, HTR | NYBG & Online | 232THP404ABL

2 Wednesdays, 1/11–1/18, 6:30–8:45 pm & Sunday, 1/22, 10 am–12:15 pm & Sunday, 10 am–3:45 pm
Hilda Krus, MSW, HTR | NYBG & Online | 232THP404BBL


THERAPEUTIC HORTICULTURE FOR OLDER ADULTS

Explore how therapeutic horticulture can improve the health, function, and quality of life for older adults in various settings, from independent to assisted living, day programs, skilled nursing, and memory care facilities. You will also gain an understanding of the physical, sensory, cognitive, psychological, and social aspects of aging.  Prerequisite: *Introduction to Therapeutic Horticulture* | \$419/\$459

4 Tuesdays, 11/1–11/22, 6–8:30 pm & 2 Saturdays, 11/5 & 11/12, 10 am–12 pm
Kathy Brechner, MBA, HTR | Online | 232THP401O

6 Tuesdays, 2/21–3/28, 6:30–8:30 pm
Kathy Brechner, MBA, HTR | Online | 232THP401


THERAPEUTIC HORTICULTURE FOR YOUTH WITH DISABILITIES

Discover how therapeutic horticulture can greatly enrich and support the formative years—from early childhood through adolescence. Learn about the causes and characteristics of various types of developmental disabilities and youth at risk. Explore ways to incorporate therapeutic horticulture and the natural environment into academic learning, life skills training, sensory processing, physical development, and social and emotional learning.  Prerequisite: *Introduction to Therapeutic Horticulture* | \$419/\$459

3 Wednesdays, 11/2–11/16, 6–8:15 pm & Saturday, 11/19, 10 am–3:45 pm
Phyllis D'Amico, HTM | NYBG & Online
232THP402ABL


3 Wednesdays, 2/8–2/22, 6–8:15 pm & Sunday, 2/26, 10 am–3:45 pm
Phyllis D'Amico, HTM | NYBG & Online
233THP402BBL

NEW! INDOOR PLANTS FOR THERAPEUTIC PROGRAMS

Discover which plants work best for particular site conditions and specific therapeutic horticulture service communities. Then, develop effective plant care plans for a variety of programs to ensure they have the adequate light, soil, humidity, and water they need.  Prerequisite: *Fundamentals of Gardening* and *at least 2 Service Community courses* | \$239/\$259

2 Thursdays, 1/5 & 1/12, 6–8 pm & Saturday 1/21, 10 am–2:30 pm
Jessica Savage | NYBG & Online | 233THP350BL

THERAPEUTIC HORTICULTURE FOR CHRONIC HEALTH CONDITIONS


Chronic conditions that require ongoing medical attention, such as cardiovascular disease, respiratory conditions, diabetes, cancer, and bone and joint diseases, can interfere with activities of daily living. Create goal-directed therapeutic horticulture activities to improve the quality of life for participants with these conditions.  Prerequisite: *Introduction to Therapeutic Horticulture* | \$419/\$459

6 Mondays, 11/7–12/12, 5–7 pm
Amy Wagenfeld, OTR-L, Ph.D. | Online
232THP405AO

3 Mondays, 3/6–4/10, 5–7 pm
Amy Wagenfeld, OTR-L, Ph.D. | Online
233THP405BO

ACCESSIBILITY IN THERAPEUTIC HORTICULTURE PROGRAMMING


Evaluate tools, equipment, structures, spaces, and techniques used by participants in therapeutic horticulture activities. Explore universal design principles and how to incorporate them into programming, activities, garden design, and tools to meet the widest range of people's needs. Design and construct a kit of adaptive tools and assistive devices through problem-solving activities.

 Prerequisite: *At least 2 Service Community courses* | \$255/\$275

2 Wednesdays, 4/19–4/26, 6–8 pm & Sunday, 4/23, 10 am–2:30 pm
Amy Wagenfeld, OTR-L, Ph.D. & Phyllis D'Amico, HTM | NYBG & Online | 234THP406BL


NEW! DEVELOPING CULTURAL COMPETENCY IN TH PROGRAMS

Being able to work across cultures is a necessary skill for the therapeutic horticulture professional. Explore cultural differences and develop cultural competency by using cues to inform your work, increasing the effectiveness and impact of your programs. Practice and expand these skills to create a model for your therapeutic horticulture programming that promotes inclusion, diversity, equity, and accessibility.

 Prerequisite: *Introduction to Therapeutic Horticulture* | \$229/\$249 *Certificate Elective*


Monday, 1/23, 6–8 pm & Saturday, 1/28, 10 am–2:30 pm
Gwenn Fried | NYBG & Online | 233THP312P

THERAPEUTIC HORTICULTURE ACTIVITY PLANNING

Learn to conduct needs assessments, develop activity plans, and write specific goals with measurable objectives that address individual and group needs. Explore the dynamics of group work and the leadership techniques necessary for successful group facilitation. You'll put theory into practice by structuring TH activities for specific populations.  Prerequisite: *At least 4 Service Community courses* | \$419/\$459


3 Mondays, 1/30–2/13, 6:30–8:30 pm & 2 Saturdays, 2/4–2/11, 10 am–12 pm
Abby Jaroslow, HTR, CH | Online | 233THP407O

THERAPEUTIC HORTICULTURE PROGRAM MANAGEMENT

Gain skills in developing program proposals, writing protocols, establishing evaluation methods and record-keeping policies, and managing staff and volunteers for therapeutic horticulture programs. We will discuss how to develop budgets, fund raise, and follow best legal practices for those considering establishing their own business.  Prerequisite: *At least 4 Service Community courses* | \$419/\$459

4 Thursday, 2/16–3/9, 6–8:30 pm
Pat Czarnecki, MBA, HTR | Online | 233THP409

NEW! A TRAUMA-INFORMED APPROACH TO THERAPEUTIC HORTICULTURE


The prevalence of trauma in the general population suggests that many of our clients would benefit from approaches to therapeutic horticulture that are trauma-sensitive. Learn to identify types of trauma and explore evidence-based trauma-informed principles and strategies to enhance positive outcomes.  Prerequisite: *Introduction to Therapeutic Horticulture* | \$229/\$249 *Certificate Elective*

Monday, 2/27, 6–8 pm & Saturday, 3/4, 10 am–2:30 pm
Joan Basile, Ph.D. | NYBG & Online | 233THP318BL

SITE VISITS


Get a close-up look at the day-to-day activities of organizations practicing Therapeutic Horticulture in the New York Area

NEW! THE G.R.O.W. GARDEN AT THE JAMES J. PETERS VA MEDICAL CENTER

Engage your senses in the Resilience & Wellness Center's newly established therapeutic garden at the James J. Peters VA Medical Center in the Bronx. Learn about the multiple populations with wide-ranging needs served by the G.R.O.W. Garden's Therapeutic Horticulture Program, observe therapeutic horticulture in action with veterans, and engage in garden-based experiential activities. Please bring lunch.  Prerequisite: *Introduction to Therapeutic Horticulture* | \$135/\$149

Friday, 10/7 (rain date: 10/14), 10 am–2 pm | Anne Meore, LMSW, HTR | Off-site | 232THP514

NYU LANGONE MEDICAL CENTER, THERAPEUTIC HORTICULTURE SERVICES, MANHATTAN

NYU is recognized as having one of the longest-running therapeutic horticulture programs in the country. This visit offers an insider's look at the broad array of programs that the team facilitates both in the hospitals and in the community. Visit the garden room and terrace garden and observe patient sessions in two different departments. Witness how interactions with plants aid in the recovery and rehabilitation of diverse groups of patients served at this premier academic medical center.  Prerequisite: *Introduction to Therapeutic Horticulture* | \$135/\$149

Tuesday, 11/29, 9 am–2 pm | Gwenn Fried and Matthew Wichrowski, MSW, HTR | Off-site | 232THP525A

Tuesday, 3/7, 9 am–2 pm | Gwenn Fried and Matthew Wichrowski, MSW, HTR | Off-site | 233THP525B





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	37
Graphics I: Hand Rendering	LAN 311	24	37
Landscape Measurement	LAN 340	12	38
Landscape Plants: Fall Trees and Shrubs	HRT 331 P	12	29
Landscape Plants: Spring Trees and Shrubs**	HRT 334 P	12	—
Plants for Landscaping	HRT 358	16	29
TIER 2			
Landscape Design I: Site Analysis and Schematic Design	LAN 401 P	24	38
Landscape Design II: Design Development	LAN 402 P	24	38
Estimating	LAN 380 P	9	38
Graphics II: Dynascape	LAN 427 P	24	37
Site Materials and Details	LAN 422 P	24	38
TIER 3			
Grading & Drainage	LAN 428 P	30	38
Graphics III: Photoshop	LAN 417 P	24	38
Landscape Design III: Planting Design	LAN 403 P	24	38
Business Practices for Landscape Professional	LAN 457	12	38
Landscape Design IV: Design and Construction	LAN 520 P	33	38
Portfolio and Presentation Skills	LAN 555 P	15	38
TOTAL REQUIRED HOURS		343	

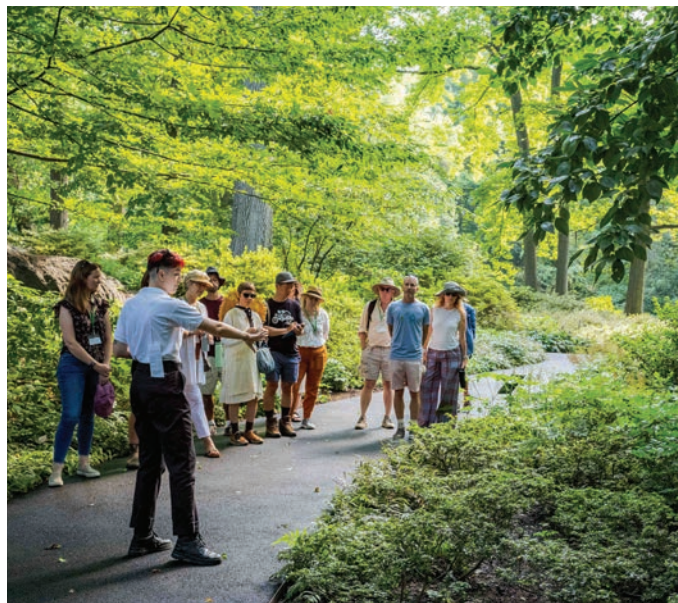
*Course hours do not include exam hours

**Courses offered in the Spring–Summer Catalog

P Courses with a prerequisite before you can register

For professional organizations, see p. 43.

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

**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, 11/28–12/19, 6:15–8:15 pm

Kimberly Tryba | Online | 232LAN100B0

3 Saturdays, 11/5–11/19, 10 am–1 pm

Michael Troy Brown | Manhattan | 232LAN100A

4 Saturdays, 1/21–2/11, 10 am–12 pm

Sheri Forster | Online | 233LAN100C0

3 Saturdays, 2/25–3/11, 10 am–1 pm

Michael Troy Brown | Manhattan | 233LAN100D

4 Saturdays, 3/11–4/1, 10 am–12 pm

Kimberly Tryba | Online | 233LAN100E0

SKETCHUP

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

8 Wednesdays, 10/12–12/7 (no class 11/23), 6:15–9:15 pm

Jonathon Matz | Online | 232LAN4170

GARDEN DESIGN HISTORY WALK

Many important designers have shaped NYBG grounds throughout the years, including Calvert Vaux, Beatrix Farrand, Piet Oudolf, and Lynden B. Miller. Stroll the grounds with award-winning author Marta McDowell, who will discuss how the Garden's plantings, pathways, ornaments, and structures illustrate the interplay of formal and informal styles that draw from many traditions across time. | \$75/\$85

Friday, 10/14, 9:30–11:30 am

Marta McDowell | NYBG | 232LAN267

NEW! URBAN BERMS

Berms—manufactured undulations in a landscape—are an exciting aspect of greenspace design in urban environments, offering protection from street noise and creating intimate spaces for both people and wildlife. Using previously built urban projects as our guide, we'll cover the specifics of berm construction, how to manage soil stabilization, which native plants work best in these conditions, and how to illustrate a berm for full construction. \$75/\$85

Wednesday, 1/11, 6:15–9:15 pm

Damon Arrington | Online | 233LAN2450

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.



NEW! EARLY AMERICAN WOMEN DESIGNERS

Study three pioneering women designers—Beatrice Farrand, Marian Coffin, and Ellen Shipman—who shaped America's tastes in the early 20th century. We'll focus on gardens that showcase Farrand's knack for innovation and infallible eye for design, Coffin's use of contrasts in color, texture, and space, and Shipman's rich planting style that exploded formal organization. You will also be able to view original plans of NYBG gardens they designed, such as Rockefeller Rose Garden, Benenson Ornamental Conifers, and Ladies' Border, respectively. | \$125/\$139

3 Thursdays, 3/9–3/23, 6–8 pm
Paula Capps Sarathy | Online | 233LAN2780

INTRO TO PHOTOSHOP FOR 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 Wednesdays, 1/11–2/15, 6:30–8:30 pm
Jonathon Matz | Online | 233LAN4440

LIGHTING DESIGN WORKSHOP

When the sun goes down, the art of landscape lighting can bring a painterly or even sculptural transformation to your design. This course explores the art of landscape lighting from selection and placement to color and composition. Learn the technical aspects of LED and low-voltage lights and how to create a professional-quality lighting plan. \$229/\$249

2 Mondays, 1/23 & 1/30, 10 am–2:30 pm
Gary Novasel | NYBG | 233LAN158

PLANT PARTNERS: THE ART OF PLANTING DESIGN

Survey photographs from dozens of eye-catching gardens to discover how to combine different plant species using the basic criteria of form, color, texture, and height. We will discuss how seasonality, a garden's location, and a plant's native habitat should all factor into your decision of which plants make the best partners. | \$59/\$65

Saturday, 2/11, 10 am–12 pm
Jan Johnsen | NYBG | 233LAN234

NEW! MANAGING WATER

To cope with heavier rains and more powerful storm surges, it is critical for horticulturists and landscape designers to understand the natural water cycle. Sarah Bray, Landscape Architect for NYS's Department of Environmental Protection, covers the basics of the hydrologic cycle: its connection with soil and vegetation; how development and climate change have impacted it; and what to do when that cycle is out of balance. Learn to identify how water courses on and off a site and create design solutions to retain, reuse, or release natural water sources into surrounding landscapes. | \$325/\$365

6 Wednesdays, 2/8–3/22 (no class 3/8),
6–7:30 pm & 1 Saturday, 3/11, 10 am–1 pm
Sarah Bray | NYBG & Online | 233LAN290BL

LANDSCAPE DESIGN TIPS: LEARNING FROM BEFORE AND AFTER

Using illustrative before and after photos of various projects she has executed throughout her long career, landscape designer Jan Johnsen shares 25 specific tips to enhance your garden. Techniques include "Lure of the Sheltered Corner," "The Principle of Three Depths," "Raising the Canopy," and many more. Students will be given a handout listing all tips discussed in class. | \$59/\$65

Wednesday, 3/29, 10 am–12 pm
Jan Johnsen | NYBG | 233LAN169

CERTIFICATE CLASSES

Open to Non-Certificate students

LANDSCAPE DESIGN HISTORY

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

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

8 Wednesdays, 10/12–12/7 (no class 11/23),
10 am–1 pm
Paula Capps Sarathy | Online | 232LAN301AO

9 Tuesdays, 1/10–3/7, 6:15–9:15 pm
Mark Bunnell, RLA | Online | 233LAN301BO

8 Wednesdays, 2/1–3/22, 10 am–1 pm
Caitlin Merritt | Online | 233LAN301CO

9 Mondays, 3/20–5/15, 6:15–9:15 pm
Mark Bunnell, RLA | Online | 233LAN301DO

GRAPHICS I: HAND RENDERING

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 Saturdays, 10/15–12/10 (no class 11/26),
10 am–1 pm
Jamie Miller | Online | 232LAN311AO

8 Saturdays, 1/21–3/18 (no class 2/18),
10 am–1 pm
Jamie Miller | Online | 233LAN311BO

8 Fridays, 2/24–4/21 (no class 4/7), 10 am–1 pm
Elizabeth Poccia | NYBG | 233LAN311C

GRAPHICS II: DYNASCAPE

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.  Prerequisite: *Graphics I* \$595/\$655 (There is an additional software fee of \$187.50. Special cancellation policy applies.) *Certificate Requirement*

8 Tuesdays, 9/13–11/15 (no class 9/27 & 10/4),
5–8 pm
Elizabeth Poccia | NYBG | 231LAN427B

8 Mondays, 1/23–3/20 (no class 2/20), 5–8 pm
Elizabeth Poccia | NYBG | 233LAN427A

8 Tuesdays, 2/21–4/11, 5–8 pm
Elizabeth Poccia | NYBG | 233LAN427B

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

LANDSCAPE MEASUREMENT

Precise field measurement is the crucial first step in landscape design. Learn how to properly use automatic levels, tapes, and sophisticated survey instruments such as a total-station and mapping grade GPS. Topics will include accurately measuring distances, differences in elevation, and angles. | \$295/\$329 *Certificate Requirement*

4 Saturdays, 9/17–10/15, (no class 10/8; rain date 10/22), 10 am–1 pm

Sarah Hettinger | NYBG | 231LAN340A

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.  Prerequisite: *Landscape Design History and Graphics I* | \$575/\$635 *Certificate Requirement*

8 Thursdays, 10/6–12/1, (no class 11/24), 6–9 pm
Damon Arrington | Online | 232LAN4010

NEW! GRAPHICS III: PHOTOSHOP

Discover how to use a wide variety of Adobe Photoshop tools and techniques to add vibrancy to your hand- or computer-rendered drawings. Hone your own aesthetic as you craft plan views, section drawings, and design details that are client ready.

 Prerequisite: *Graphics II* | \$595/\$655 *Certificate Requirement*

10 Tuesdays, 10/11–12/20 (no class 10/25), 10 am +
Ivy Harrison | NYBG & Online | 232LAN437ABL

10 Mondays, 1/23 & 4/3, 3–6 pm and 1/30–3/27
(no class 2/20), 6:30–8:45 pm

Jonathon Matz | NYBG & Online | 233LAN437BBL

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.


 Prerequisite: *Landscape Design I* and *Graphics II* | \$575/\$635 *Certificate Requirement*

8 Thursdays, 1/19–3/9, 6:15–9:15 pm

David McConnell | NYBG | 233LAN402

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, text, color, and ecological associations.


 Prerequisites: *Landscape Design II*, *Graphics II*, and *Plants for Landscaping*. Recommended:

Fall Tree and Shrubs and *Spring Trees and Shrubs*
\$575/\$635 *Certificate Requirement*

8 Thursdays, 9/22–11/10, 6:15 pm–9:15 pm

Stacie Ellickson-Hastie | Online | 233LAN403AO

ESTIMATING

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

4 Wednesdays, 1/11–2/1, 10 am–12:15 pm

Michael Voelkel | NYBG | 233LAN380

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.  Prerequisite: *Graphics II* | \$575/\$635 *Certificate Requirement*

8 Tuesdays, 1/24–3/14, 6–8 pm

Damon Arrington | Online | 233LAN4220


BUSINESS PRACTICES FOR THE LANDSCAPE PROFESSIONAL

Study how to effectively organize and operate a small landscape business that will sustain itself and earn a profit. Learn 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 *Certificate Requirement*

6 Thursdays, 1/12–2/16, 10:15 am–12:15 pm

Jessica Zavaglia | Online | 233LAN457BO

LANDSCAPE DESIGN IV: DESIGN AND CONSTRUCTION

Draw upon all of the skills you've developed in the Landscape Design program to create a residential project from start to finish, combining design with construction principles. Emphasis is on construction drawings, documents, and specifications, as well as estimating.  Prerequisites: *Landscape Design III*, *Grading*, and *Site Materials and Detail* | \$829/\$909 *Certificate Requirement*

11 Mondays, 2/27–5/8, 6–9 pm

David McConnell | NYBG | 233LAN520


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.  Prerequisite: *Landscape Design III* | \$379/\$415 *Certificate Requirement*

7 Fridays, 2/10–3/24, 11 am–1:10 pm

Annie Phaosawasdi | Online | 233LAN555O

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.  Prerequisite: *Landscape Measurement*, *Landscape Design I*, and *Graphics II*
\$715/\$795 *Certificate Requirement*

10 Wednesdays, 3/1–5/10 (no class 5/4),

10 am–1 pm

Alice Eckerson | NYBG | 233LAN428



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

Registration fee for each lecture: \$23/\$26

Register for all six lectures and receive discount:

\$125/\$139 | 232LAN265G

For more information about the LDSA, see p. 43.



©Nick McCullough

AMERICAN ROOTS

Revel in the beauty and unique character of the landscapes that designer Nick McCullough sought out on his quest to define the American garden. You'll get an intimate look at gardens from many regions across our vast nation, all of which were designed and planted by their owners—from an unconventional quarter-acre prairie garden that fronts a suburban Nebraska home to a post-Katrina New Orleans cutting garden. Gain design inspiration, planting tips, and an expanded notion of what an American garden is from this lushly illustrated talk.

Award-winning garden designer **Nick McCullough** has developed a distinctive style he calls Midwest Modern, one that relies on a balance of natural paving and innovative perennial plantings. Based in Ohio, he and his team at McCullough's Landscape & Nursery create and maintain plant-centric gardens in and around the Midwest that are both ecologically sensitive and family-forward. His first book, *American Roots*, which he co-authored with his wife Allison and Teresa Woodard, has recently been published by Timber Press.

Tuesday, 10/25, 1–2 pm | Ross Hall | 232LAN265A

KNOCKOUT NATIVES

Since 2002, Delaware's Mt. Cuba Center has conducted research on which native plants and related cultivars hold the most horticultural and ecological value for use in the mid-Atlantic region, including which ecosystem services they provide. Join Sam Hoadley as he shares important findings about the top-performing species of *Coreopsis*, *Baptisia*, *Monarda*, *Phlox*, *Helenium*, *Echinacea*, and wild hydrangea. He will also provide a brief preview on the ongoing *Carex*, *Veronica*, and *Solidago* trials while shedding light on how data is collected and how plants are evaluated.

As the Manager of Horticultural Research, **Sam Hoadley** evaluates native plant species, old and new cultivars, and hybrids in the Trial Garden at Mt. Cuba. He earned his degree in Sustainable Landscape Horticulture from the University of Vermont.

Tuesday, 11/15, 1–2 pm | Ross Hall | 232LAN265B

GROWING EARTH-FRIENDLY GARDENS

A tireless advocate for the use of native plants, horticulturist Uli Lorimer shares the ins and outs of how to select, grow, and propagate a wide variety of plants native to New England, 235 of which can be found in his recently published *Northeast Native Plant Primer*. He will detail the specific benefits individual species bring to our gardens, including seasonality, resilience, texture, and habitat for creatures big and small.

As Director of Horticulture, **Uli Lorimer** oversees facilities and operations at the Native Plant Trust's Garden in the Woods and Nasami Farm, a nursery dedicated to research and propagation of native New England plants. He has more than 20 years of experience working with native plants in public gardens with previous positions at Brooklyn Botanic Garden, Wave Hill, and the U.S. National Arboretum.

Tuesday, 12/13, 1–2 pm | Ross Hall | 232LAN265C

HOLISTIC DESIGN THINKING

Maine-based landscape architect David Maynes creates spaces that encourage people to actively engage with the ecological processes that unfold around them. For him, a client's perception of the landscape is just as important as a plant palette; a landscape's edges and transitions create opportunities; and a site's details are the bridge that foster connection between people and landscapes. Join Maynes for a wide-ranging discussion about the natural materials he uses—from sustainably sourced wild sods to local stone—and the many principles that guide his work.

David Maynes, PLA, has more than 20 years of experience designing, planning, and building landscapes in New England and Maritime Canada. Currently, davidmaynesSTUDIO focuses on private residential design, farm and landscape systems design, rural park development, ecosystem restoration, and long-term landscape planning. He holds a BS in Environmental Horticulture & Design from the University of Maine, Orono and a MLA from the University of Massachusetts, Amherst.

Tuesday, 1/17, 1–2 pm | Online | 232LAN265DO

THE ART AND ARTISTRY OF CHANTICLEER

Chanticleer Garden, a gracefully designed series of thoughtfully planted rooms, is also known for the whimsical artwork crafted by its staff in the off-season. Their original metal sculptures, ceramic containers, wooden furniture, carved stone elements, and creative plant supports are an integral part of the visitor experience. Horticulturist Dan Benarcik highlights many of these artists and illustrates how their work creates pockets of charm and comfort that help make Chanticleer unique.

Dan Benarcik has worked at Chanticleer for almost 30 years and currently oversees their Courtyard Gardens featuring tropical, subtropical, and tender perennials for seasonal display. He judges for the Philadelphia Flower Show and has worked on extended assignment at Lotusland, Long Vue House, and Ayerlies Garden. A former Regional Director of the Garden Writers Association, he has written for many publications, including *Fine Gardening*, *Horticulture*, and *Martha Stewart Living*.

Tuesday, 2/21, 1–2 pm | Ross Hall | 232LAN265E

CONTEMPORARY GARDENS OF THE HAMPTONS

Water is a crucial design factor in Christopher LaGuardia's elegant landscapes—both its serene beauty and its surging power. Dotted with wetlands and encircled by waterfront, the Hamptons are impacted by reduced water quality, erosion, and colonies of invasive species. LaGuardia discusses the challenges of developing waterfront properties while also looking to protect and enhance the natural environment, including creative ways to capture runoff, create habitats for wildlife, and choose the best mix of grasses, perennials, and woody shrubs for a given site.

Led by Managing Principal and Founder **Christopher LaGuardia, PLA, FASLA**, LaGuardia Design Group (LDG) works extensively on the East End of Long Island, as well in New York City, New England, Florida, the Caribbean. LDG's 25-person firm has garnered many honors, most recently ASLA's 2021 National Honor Award in Residential Design. Their work has been featured in many media outlets, including *Architectural Digest*, HGTV, and *Hamptons Magazine*, to name a few. A fellow of ASLA since 2014, LaGuardia lectures widely and also serves on the board of the Cultural Landscape Foundation in Washington, D.C.

Tuesday, 3/21, 1–2 pm | Ross Hall | 232LAN265F



CEUs are available.



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.

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.

CERTIFICATE REQUIREMENTS

Course	Code	Hours	Page
Basic Plant ID	BOT 308	6	10
<i>Two of the four Native Flora courses:</i>		24	
Native Flora in Autumn	BOT 331 P		11
Native Flora in Winter	BOT 332 P		11
Native Flora in Spring**	BOT 333 P		—
Native Flora in Summer**	BOT 334 P		—
<i>One of the two Birds courses:</i>		12	
Natural History of Birds: Fall	BOT 321		41
Natural History of Birds: Spring**	BOT 317		—
Natural History of Insects	NAT 322		41
Introduction to Urban Ecology	NAT 338	6	41
The Ecosystems of New York City**	NAT 337 P	8	—
Urban Ecology Field Study Workshop**	NAT 323 P	9	—
Elective Credits (See current electives below)		30	
TOTAL REQUIRED HOURS		107	

ELECTIVES

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

Course	Code	Hours	Page
Urban Flora: Growing Between the Cracks	NAT 332	6	41
Field Sketching	NAT 400	6	41
Bronx River Ecology	NAT 359	6	41
Urban Mammals	NAT 326	6	41
Amphibians of the Northeast	NAT 347	4	41

**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


INSTRUCTOR BIOS CAN BE FOUND ONLINE
AT NYBG.ORG/ADULTED

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

See p. 10 for full dates and times.

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

5 Saturdays, 9/17–10/22 (no class: 10/8, rain date: Saturday, 10/29) 10 am †
Nancy Slowik | NYBG & Online | 231BOT331BBL

NATURAL HISTORY OF INSECTS

Study the critical and fascinating roles that insects play in maintaining healthy ecosystems and within their own complex social systems. Learn to observe and identify insects while exploring the wonder of metamorphosis and the amazing variety of defensive strategies and adaptations insects have developed to survive. | \$295/\$325 *Certificate Requirement*

5 Saturdays, 9/24–10/29 (no class 10/8), 10 am †
Ken Chaya | NYBG & Online | 231NAT322BL

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. 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*

5 Tuesdays, 9/27–10/25, 10 am †
Ken Chaya | NYBG & Online | 231NAT321BL

NEW! APPS FOR NATURALISTS

Get the hang of using iNaturalist, a powerful digital tool that allows you to record and share your observations of the natural world with scientists and individuals worldwide, helping to gather data that is being used to better protect and understand nature. We'll also explore its sister app Seek, which has no social media component, making it ideal to help young children engage with nature. | \$59/\$65

Sunday, 10/16, 11 am–1 pm
Devon Cummings | NYBG | 232NAT204

REGISTER ONLINE AT NYBG.ORG/ADULTED
OR CALL 718.817.8720

NEW! BRONX RIVER ECOLOGY

The Bronx River, the only freshwater river in New York City, teems with life! Explore the river's ecology and biodiversity by studying some of its most interesting inhabitants, the macroinvertebrates that serve as indicators of a stream's health. The second session will include a trip into the Thain Family Forest where we'll use leaf packs and magnification tools to observe and identify the aquatic insects we find in the Bronx River. | \$125/\$139 *Certificate Elective*

2 Thursdays, 10/13 & 11/3, 10 am–1 pm
Ken Chaya | NYBG | 232NAT359

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 Wednesdays, 10/19–11/2, 10 am–12 pm
Nancy Slowik | Online | 232NAT332O

NEW! FIELD SKETCHING

Take your naturalist game to the next level by learning how to sketch. Drawing asks that you slow down and closely observe what you see, allowing you to identify unfamiliar species and investigate ecological connections. Focusing on trees, you'll learn how to accurately capture unique details by experimenting with a variety of color combinations, materials, and mark-making. No previous drawing experience required. | \$125/\$139 *Certificate Elective*

4 Sundays, 10/16–11/6, 11 am–12:30 pm
Lorna Leighton | Online | 232NAT400O

NEW! WOODLORE: A CULTURAL HISTORY OF TREES

Take a deep dive into the history and modern-day uses of trees found in the tri-state area, from American elm to white pine. On this walk and talk, we will discuss 12 species and how the specific ecology and wood characteristics of each affect how it has been named, used, and integrated into the mythologies and cultures of different peoples. \$75/\$85

Thursday, 11/10, 10 am–1 pm
Levi O'Brien | NYBG | 232NAT206

NEW! INTRO TO THE ECOLOGY OF GALLS

Fascinating adaptations, galls are highly modified tissues in plants caused by arthropods, fungi, viruses, or bacteria. Surprisingly little is known about the biology and ecology of galls, making them a prime topic for naturalists to study. This class will focus on the ecology of galls created by wasps, midges, aphids, psyllids, and more in the northeastern U.S. Participants will receive some tips on how to identify some of the more common species around so you can begin to study them come spring. | \$45/\$49

Wednesday, 1/18, 6:30–8 pm
John Butler | Online | 233NAT213O


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*

3 Tuesdays, 11/29–12/13, 6–8 pm
Liz Johnson | Online | 232NAT338AO

3 Thursdays, 2/23–3/9, 10 am–12 pm
Liz Johnson | Online | 233NAT338BO

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

4 Fridays, 1/13–2/3, 10 am–1 pm
Nancy Slowik | NYBG | 233BOT332

NEW! AMPHIBIANS OF THE NORTHEAST

Discover the fascinating traits that most frogs, toads, and salamanders share—such as having thin, smooth skins through which they can breathe—as well as what makes them unique. You'll pick up tips to identify local species by sight and/or sound and use case studies to learn more about their life history, ecology, and conservation. \$95/\$105 *Certificate Elective*

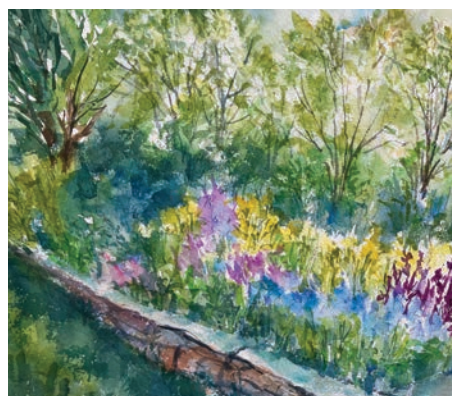
2 Tuesdays, 2/28 & 3/7, 6–8 pm
Liz Johnson | Online | 233NAT347O

URBAN MAMMALS

Coyotes, bears, and deer are becoming an integral part of urban life due to the extirpation of their predators and conversion of natural habitats. We will look closely at these species and discover how they have adapted to co-exist with humans. We will also study how these urban mammal populations are documented and managed, and as well as how they are perceived. | \$125/\$139 *Certificate Elective*

3 Wednesdays, 2/8–2/22, 6–8 pm
Giselle Herrera | Online | 233NAT326O

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



Wellness

*Exercise or meditate within the Garden
or find new ways to bring healthful plants
into your everyday life.*

SOAPMAKING WORKSHOP

Bring the bouquet of a summer garden indoors with handmade, naturally moisturizing glycerin soaps. You'll learn the traditional melt-and-pour process and combine fragrances of various dried herbs and essential oils—lavender, rosemary, mint, and more—to make four bars to take home. All materials provided. | \$115/\$125

Saturday, 10/15, 11 am–2 pm
Elizabeth Scholl | NYBG | 232WEL143A

Saturday, 3/18, 11 am–2 pm
Elizabeth Scholl | NYBG | 233WEL143B

FOREST BATHING

Experience the research-proven health benefits of forest bathing by slowing down and awakening your senses. After learning basic sensory and meditation techniques drawn from the Japanese practice of Shinrin-Yoku, Scandinavian nature philosophies, and other practices, you'll engage in mindful walking through NYBG's Thain Family Forest. | \$45/\$49

Sunday, 10/23, 10:30 am–12 pm
Nicole Elmgart | NYBG | 232WEL145

NEW! CEMPAZÚCHITL: MEXICO'S MARIGOLD

In Mexico, the marigold flower—Cempazúchitl in the Indigenous language Nahuatl—has been associated with the Día de Muertos celebrations for centuries. Discover the cultural importance of this plant while creating a tonic that supports the nervous system, as well as digestive and respiratory health. All materials provided. | \$59/\$65

Thursday, 10/27, 6–8 pm
Diana Arellano-Gonzalez | Manhattan | 233WEL233

HERBAL MEDICINE FOR IMMUNE SUPPORT

Explore which herbs, fungi, and nutrient-dense foods offer resistance for colds and flu. Learn how to create several herbal remedies to strengthen the immune system and support the body to fight off pathogens, and prepare two of the recipes along with the instructor during class. | \$79/\$85

Thursday, 11/3, 6–8 pm
Dawn Petter | Manhattan | 232WEL178

FROM GARDEN TO SPA: NATURAL BODY CARE

Create spa-worthy products from your garden—revitalizing lotion bars, lip balms, bath salts, body scrubs, and more using a variety of botanicals. Ideal for those who want to indulge in self-care or create lovely holiday gifts. All materials provided. | \$115/\$125

Saturday, 11/19, 11 am–2 pm
Elizabeth Scholl | NYBG | 232WEL144

HERBAL HONEYS

Learn how to create medicinal herbal honeys to soothe sore throats and coughs, heal skin wounds, and fight off infection using a variety of plants and flowers. You'll make several custom honeys suited to your unique needs. See website for materials list. | \$45/\$49

Wednesday, 12/7, 6–8 pm
Karine Gordineer | Online | 232WEL1470

PINE MEDICINE

From cough syrups to pine pollen pancakes and spruce tip salt, discover how common conifers can delight your taste buds and enhance your apothecary. We'll craft a few remedies together; all materials provided. | \$79/\$85

Thursday, 12/8, 6–8 pm
Dawn Petter | Manhattan | 232WEL182

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. Examine the difference between good and bad bacteria and explore how each affects your body. Then study how to strengthen your digestion. | \$45/\$49

Monday, 1/9, 6:30–8 pm
Cheryl Paswater | Online | 233WEL2150

INCENSE MAKING

Scented smoke has been used traditionally throughout human history to create a sense of well-being. Learn several different methods for creating your own at home incense experience with a mix of woodland material and culinary herbs in this exploration of an ancient craft. All materials provided. | \$79/\$85

Tuesday, 1/24, 6–8 pm
Dawn Petter | Manhattan | 233WEL233

INTRO TO HERBAL MEDICINE

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 use several common herbal remedies. | \$59/\$65

Wednesday, 1/25, 6–8 pm
Karine Gordineer | Online | 233WEL1090

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. | \$119/\$129

8 Saturdays, 1/28–3/25 (no class 2/18), 10–11 am
Robert Torres | NYBG | 233WEL102

MEDICAL CANNABIS

Proponents tout marijuana as a safe, effective treatment for symptoms of cancer, HIV, MS, Parkinson's, and more—while opponents see many physical and social risks. Gain an overview of the endocannabinoid system, its effects on the brain, and the future of medical cannabis in the U.S. | \$45/\$49

Tuesday, 2/7, 6:30–8 pm
Stephen Dahmer, M.D. | Online | 233WEL1280

HERBALISM: BEYOND THE BASICS

In this deep dive into herbal medicine, we'll cover the medicinal properties and uses of nearly 100 local or easy-to-source healing plants. You will infuse, blend, and decoct your own herbal apothecary of teas, salves, tinctures, syrups, vinegars, compresses, and poultices. A materials kit with herbs and containers will be delivered to your home. | \$425/\$469

4 Wednesdays, 2/15, 3/15, 4/12, 5/10, 6–8:45 pm &
4 Saturdays, 2/18, 3/18, 4/15, 5/13, 11 am–1:45 pm
Karine Gordineer | Online | 233WEL1610

NEW! DETOXING YOUR HOME

Environmental toxicity stresses our immune systems and makes us more prone to allergies. Consider what changes you can make to your home to make it a safer place for you and your loved ones—from simple but essential product swaps to certain chemicals to avoid altogether. We'll cover dryer sheets, body products, water systems, and more! See website for materials list. | \$45/\$49

Thursday, 2/23, 6:30–8 pm
Cheryl Paswater | Online | 233WEL2140

MYSTERY TEA TASTING

Discover a herb's therapeutic qualities by exploring its scent, taste, and how a particular herbal infusion feels in your body. Clinical herbalist Geraldine Lavin will send a "mystery herb" to your home along with brewing instructions. At the end of the tasting, she will reveal the mystery herb's identity and its published properties. | \$55/\$59

Tuesday, 3/7, 6:30–8 pm
Geraldine Lavin | Online | 233WEL1660



Herbal Saturday

October 29 | Midtown Education Center

Herbs have been helping us stay healthy for thousands of years. Join these expert herbalists to learn how plants can be used for medicine and self-care.

BOTANICAL BATH BOMBS

10:30 am–12 pm

Prepare to relax and be rejuvenated! Using salts, nourishing clays, and essential oils, you'll craft four custom botanical bath bombs to bring fragrance and fizz to a time-honored self-care ritual for you and your loved ones!

Arvolyn Hill | 232WEL130B

HERBAL HONEYS

12:45 pm–2:15 pm

Offering a host of health benefits on its own, raw honey can also be used to preserve the medicinal properties of fresh, dried, or powdered herbs. Learn how to create medicinal herbal honeys to soothe sore throats and coughs, heal skin wounds, and fight off infection using a variety of plants and flowers. You'll take home several custom honeys suited to your unique needs.

Suhaly Bautista-Carolina | 232WEL130C

ELDERBERRY SYRUP

3–4:30 pm

Packed with antioxidants and vitamins, elderberry fruits and flowers have been used across cultures for centuries to prevent colds and flus, treat fevers, and tame inflammation. Delve into the many healing properties of this commonly used medicinal plant while making a 3 oz. bottle of elderberry syrup to take home.

Rose Lee | 232WEL130D

Registration fee for each section: \$59/\$65
All Three Sections: \$155/\$175 | 232WEL130A
All materials provided.

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.

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

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 in 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 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.org

Tri-State Botanical Artists of NYBG (TSBA) All NYBG Botanical Art & Illustration students are cordially invited to join the Tri-State Botanical Artists of NYBG. TSBA, a circle of the American Society of Botanical Artists, is a group of more than 90 like-minded artists that meets once a month to support each other and share resources. Meetings are free via Zoom. Each month, there will be a speaker who discusses a relevant topic such as fine art materials, galleries, botany, or gardens. For more information and to sign up for the e-newsletter, please contact ssapanara@gmail.com, jeanne.reiner@gmail.com, or gayegrossman@gmail.com

American Institute of Floral Designers (AIFD) AIFD is a non-profit organization dedicated to establishing, maintaining, and recognizing the highest standard of professional floral design. AIFD and its worldwide accredited members present educational programs and design flowers for such renowned events as the Tournament of Roses Parade, the Academy Awards, and presidential inaugurations. NYBG is an AIFD Education Partner. For more information visit aifd.org

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 information, visit gnsi.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 offered at NYBG, and pass a State-administered exam. Applicants must periodically apply for recertification and complete a number of courses approved by the DEC and the NJ State Department of Environmental Protection (DEP).

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 & 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 Adijat Adebola at adijat.adebola@bcc.cuny.edu or 718.289.5538, or NYBG at 718.817.8720.



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 100% job placement rate for the past 12 years, 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 2023 ceremony will be held on the first Sunday of June. If you expect to complete your Certificate requirements or enroll in all remaining classes by June this year, you must inform the Manager of Adult Education in writing at adultgraduation@nybg.org by March 24. Call the Registration Office at 718.817.8720 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

Entrance to the Garden on Class Days

You must present your ID and registration confirmation email at the Moshulu Entrance to gain admittance to the Garden.

Storm Closings

Class cancellations due to inclement weather will be rescheduled.

For closings due to weather, call 718.817.8747 beginning at 7:30 am for a recorded message on the status of your class.

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

No classes will be held on these dates: Sept. 5, Oct. 10, Nov. 24–25, Dec. 23–Jan. 2, Jan. 16, Feb. 20, May 29, June 19, July 4

Accessibility

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

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

Gift Cards

Need the perfect gift for that plant-loving someone? Purchase a gift card at nybg.org/adulted for a NYBG class and give the gift of learning!

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; 212.302.2054

MIDTOWN EDUCATION CENTER

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

BOTANY				Page
10/15	10:00 am	Autumn Mushrooms		10
10/20	6:00 pm	What's This Tree on My Block?		10
1/24	6:00 pm	The Hidden World of Lichens		11
CRAFTS				
11/7	6:00 pm	Origami Botany: Holiday Edition		13
11/9	6:00 pm	Watercolor Basics		12
2/15	6:00 pm	Watercolor Basics		12
FLORAL DESIGN				
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10/15	10:30 am	Fundamentals of Style		18
10/26	6:00 pm	Gothic Style: Dark and Dramatic		19
11/30	6:00 pm	Flower Arranging with Store-Bought Bouquets		17
1/17	10:30 am	Fundamentals of Form: Mini-Intensive		17
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2/4	10:00 am	Style and Shoot: Baroque		18
2/8	6:00 pm	Flower Arranging with Store-Bought Bouquets		17
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3/21	6:00 pm	Flower Arranging with Store-Bought Bouquets		17
GARDENING				
9/15	6:30 pm	Perennial Plant Combinations		21
10/22	10:00 am	Apartment Gardener's Saturday		25
12/3	10:00 am	Indoor Tropicals		23
2/11	10:00 am	Indoor Tropicals		23
3/15	6:00 pm	Vertical Gardening: Vines and Climbers		22
3/18	10:00 am	A Garden Design Primer		21
3/18	10:00 am	Container Gardening		24
3/25	10:30 am	Perennial Plant Combinations		21
LANDSCAPE DESIGN				
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2/25	10:00 am	Intro to Landscape Design		36
WELLNESS				
10/29	10:30 am	Herbal Saturday		43
10/20	6:00 pm	Cempazúchitl: Mexico's Marigold		42
12/8	6:00 pm	Pine Medicine		42
1/24	6:00 pm	Incense Making		42

New York Botanical Garden
2900 Southern Blvd
Bronx, New York 10458-5126

Address Service Requested



Grow with NYBG

Change your career. Beautify your green space. Exercise your creativity. Renew your spirit.
The New York Botanical Garden has hundreds of classes to educate, inspire, and guide you.

*Classes meet online, in our 250 magnificent acres in the Bronx,
and at our Midtown Education Center at 20 West 44th Street.*



The New York Botanical Garden is located on property owned in full by the City of New York, and its operation is made possible in part by public funds provided through the New York City Department of Cultural Affairs.