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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Inside Back Cover Registration, General Information, & Classes in Midtown

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.
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

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

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

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 Detroit neighborhood. The daughter of an architect, Julie Bargmann is the Founder and Principal of Surfacedesign, a San Francisco that includes a public park; and Uliveto, 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.

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.

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.

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.

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.

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

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<th>Course</th>
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<td>Botanical Drawing II: Developing Your Skills</td>
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<td>The Basics of Visual Composition</td>
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<td>Botanical Drawing III: Focus on Flowers</td>
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<td>Plant Morphology for Botanical Artists</td>
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<td>Botanical Watercolor I</td>
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<td>Practical Aspects of Botanical Art</td>
<td>BIL 392</td>
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* Plus one of the following:
  - 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  | 18    | 6    |
  - Colored Pencil                                        | BIL 415  | 18    | 6    |
  - Elective courses                                      | 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.

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<td>Seed Pods</td>
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<td>Success with Stipple</td>
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<td>Designing Complex Compositions in Graphite</td>
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<td>Achieving Luminosity Through Layering</td>
<td>BIL 487</td>
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<td>Ink Wash Techniques</td>
<td>BIL 407</td>
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* 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

OPEN 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 | 232BIL145AO

4 Wednesdays, 1/11–2/1, 6–9 pm
Katy Lyness | Online | 233BIL145BO

4 Thursdays, 2/9–3/2, 6–9 pm
Katy Lyness | Online | 233BIL145CO
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

Iris
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 inexperience 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 | 233BIL144BO

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

Certification 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 | 233BIL301C0

6 Saturdays, 1/21–3/4 (no class 2/20), 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 | 233BIL302FO

6 Thursdays, 11/3–12/15 (no class 11/24), 6–9 pm
Katy Lyness | Online | 233BIL302AO

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 | 233BIL302E0

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

Colored Pencil
Colored pencil can be applied to look like either drawing or painting, making it a versatile medium for botanical art. Learn a variety of techniques including burnishing, tonal construction, and layering colors for different hues and densities. ■ 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

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: Moth Orchid, Phalaenopsis Orchid, Graphite Pencil, ©Heeyoung Kim

Illustration: Chinese Lantern Drawing, Colored Pencil and Watercolor, ©David Morrison
**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 | $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 prepare for entering an exhibition or developing your 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), 6–9 pm
Laura Vogel | Online | 233BIL4070

**SUCCESS WITH STIPPLE**

Black-and-white stipple technique can produce smooth gradient 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 | $359/$395 Certificate Elective

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

**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

**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

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<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Plant Structure</td>
<td>BOT 315</td>
<td>24</td>
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<tr>
<td>Plant Physiology</td>
<td>BOT 316</td>
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<td>Plant Diversity</td>
<td>BOT 317</td>
<td>24</td>
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<tr>
<td>Dendrology: Woody Plant Identification</td>
<td>BOT 375</td>
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<tr>
<td>Herbaceous Plant Identification**</td>
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One of the four Native Flora courses:

<table>
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<tbody>
<tr>
<td>Native Flora in Autumn</td>
<td>BOT 331</td>
<td>12</td>
<td>11</td>
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<tr>
<td>Native Flora in Winter</td>
<td>BOT 332</td>
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<td>Native Flora in Spring**</td>
<td>BOT 333</td>
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<td>Native Flora in Summer**</td>
<td>BOT 334</td>
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Elective Credits (See current electives below) 58

TOTAL REQUIRED HOURS 169

ELECTIVES

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<tr>
<td>Nature’s Pharmacy</td>
<td>BOT 346</td>
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<td>Botanical Latin</td>
<td>GAR 360</td>
<td>12</td>
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<td>Paleobotany: The Origin of Plants</td>
<td>BOT 434</td>
<td>12</td>
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<td>Autumn Mushrooms</td>
<td>BOT 368</td>
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<td>Psychedelic Mushrooms</td>
<td>BOT 302</td>
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<tr>
<td>The Science of Tree Communication</td>
<td>BOT 385</td>
<td>6</td>
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<td>Winter Mushrooms</td>
<td>BOT 394</td>
<td>6</td>
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<td>Morphology of Flowering Plants</td>
<td>BOT 431</td>
<td>19</td>
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<td>Lichens Revealed</td>
<td>BOT 388</td>
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<td>Ethnobotany: A Practitioner’s Perspective</td>
<td>BOT 344</td>
<td>5</td>
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<tr>
<td>Tropical Forest Ecology</td>
<td>BOT 358</td>
<td>6</td>
<td>11</td>
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<tr>
<td>Hidden World of Lichens</td>
<td>BOT 313</td>
<td>3</td>
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*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 microscopes 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 | 232BOT8250
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 Saidoff I NYBG I 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. I $75/$85

2 Fridays, 2/3 & 2/10, 10 am–12 pm
David Saidoff I Online I 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 I $395/$435 Certificate Elective

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

THE MANY USES OF MYCELIUM
Scientists have engineered so many new products from mycelium that Scientific American heralds mycelium “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. I $45/$49

Tuesday, 2/28, 6–7:30 pm
John Michelotti I Online I 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 I $295/$325 Certificate Requirement

5 Saturdays, 9/17–10/22 (no class 9/23, 10 am–12 pm)
Nancy Slowik I NYBG & Online I 231BOT313B

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. I $559/$615 Certificate Requirement

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

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

8 Tuesdays, 2/21–4/11, 6–9 pm
Steve Kutos I Online I 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 I $559/$615 Certificate Requirement

8 Wednesdays, 9/21–11/16 (no class 10/5), 6–9 pm
Steve Kutos I Online I 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 I $295/$325 Certificate Requirement

4 Fridays, 1/13–2/3, 10 am–1 pm
Nancy Slowik I NYBG I 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 I $559/$615 Certificate Requirement

8 Wednesdays, 3/15–5/3, 4–7 pm
Regina Alvarez I NYBG I 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 I $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 I NYBG & Online I 234BOT375B

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. I $75/$85 Certificate Elective

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

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

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 Practioner’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 I 223BOT3440

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 Practioner’s Perspective
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$115/$125 Certificate Elective

3 Mondays, 1/23–2/6, 5:15–7 pm
Michael Balick, Ph.D. & Alex McAlvay, Ph.D. Online I 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. I $75/$85 Certificate Elective

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

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

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
Jessica 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

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 Jess 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 as its maintenance needs. | $59/$65
2 Wednesdays, 1/11 & 1/18, 6–7:30 pm
Jessica Clark | Online | 233CRF265O

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 | 233CRF275O

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
Experiment with fermentation, food preservation, and mixology!

**FALL EDIBLE PLANTS**
Take a guided ramble with wild foods author and forager Marie Viljoen and learn 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

**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
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 | 232CKG232O

PRESEVERING 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

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 | 233GWP928O

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 | 233GWP213O

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 adulted@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.

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**Courses offered in the Spring–Summer Catalog**

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Courts 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 | 233FDN312B0

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 | 233FDN452B0

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, 10:30 am–3 pm
Barbara Mele | 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 | 233FDN313O

## 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 | 233FDN350A

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 Elective

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. | Prerequisite: Fundamentals of Style | $395/$435 Certificate Elective

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 | 232FDN302C

4 Tuesdays, 2/21–3/14, 10 am–2:30 pm
Thomas Cawley | NYBG | 232FDN302D

### Codes for Certificate Classes
- **Certificate Elective**
- **Certificate Requirement**

## 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 Elective

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! Discover where to get the best flowers and hard goods from the pros. Lunch is not included. Dress for the weather. | Prerequisite: Fundamentals of Form | $95/$105 Certificate Elective

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 foliages. Topics include special handling requirements of many flower types. See website for materials list. | $195/$215 Certificate Elective

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 boutonnieres with fresh flowers, ribbons, and bows. Advance to styling and assembling bridal and bridesmaid bouquets. $250 materials fee. | Prerequisite: Fundamentals of Style | $395/$435 Certificate Elective

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
SEASONAL WORKSHOPS

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 | 233FDN305

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 Fridays, 3/10 & 3/17, 10 am–2:30 pm
Chris Raimondi, CLP | NYBG | 233FDN310A

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 tabletops. $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 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, 2/26, 6–9 pm
Trish O’Sullivan | NYBG | 233FDN502

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

REGISTER ONLINE AT NYBG.ORG/ADULTED OR CALL 718.817.8720
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

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ELECTIVES

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**Courses offered in the Spring–Summer Catalog

P Courses with a prerequisite before you can register

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 | 233GAR222C0

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 | 231GAR287A0
2 Tuesdays, 4/4 & 4/11, 5–6:30 pm
Michael Hagen | Online | 234GAR2870

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

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 | 232GAR3790

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 | 231GAR146

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

Illustration: Catie’s Garden, Watercolor, ©Katherine Schwane
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

Saturday, 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

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

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
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 | 233GAR3600

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. | Prerequisite: Fundamentals of Gardening | $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 Bulppt | Online | 233GAR302BO

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

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

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

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, 10/25–12/6 (no class 11/8), 6:15–8:15 pm
Mark Kokinchak | Online | 231GAR3200

6 Fridays, 2/24–3/31, 6–8 pm
Mark Kokinchak | Online | 233GAR3200

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

6 Thursdays, 10/13–11/17, 6:15–8:15 pm
Stephen Nocera | Online | 232GAR341A0

6 Tuesdays, 2/21–3/28, 6:15–8:15 pm
Nick Størts | 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. | Prerequisite: Plants for Landscaping | $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

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

Illustration: Crabapple, Watercolor, ©Laura Vogel
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

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<td>Tree Management</td>
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<td>Introduction to Plant Science</td>
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<td>Soil Science I: Physical Properties</td>
<td>HRT 301</td>
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<td>Soil Science II: Chemistry and Nutrition</td>
<td>HRT 302</td>
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<td>Tree Climbing for Arborists</td>
<td>HRT 304</td>
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<td>Chainsaws: Use, Safety, and Maintenance</td>
<td>HRT 308</td>
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<td>Landscape Plants: Bulbs</td>
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<td>Plants for Landscaping</td>
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<td>Plant Communities</td>
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*Course hours do not include exam hours

**Courses offered in the Spring–Summer Catalog

Courses with a prerequisite before you can register

For professional organizations, see p.43.

### Questions?

**Contact Program Coordinator**

Richard Smith, at **HRTCOORDINATOR@NYBG.ORG**

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**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.
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.

<table>
<thead>
<tr>
<th>Dates</th>
<th>Time</th>
<th>Instructor(s)</th>
<th>Cost</th>
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</thead>
<tbody>
<tr>
<td>3 Sundays</td>
<td>10/23–11/6, 11 am–1 pm</td>
<td>Anne Marie Breyer</td>
<td>$169/$185</td>
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<tr>
<td>3 Thursdays</td>
<td>12/1–12/15, 6–8 pm</td>
<td>Anne Marie Breyer</td>
<td>$169/$185</td>
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<tr>
<td>3 Tuesdays</td>
<td>1/10–1/24, 6–8 pm</td>
<td>Anne Marie Breyer</td>
<td>$169/$185</td>
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<tr>
<td>3 Thursdays</td>
<td>2/16–3/9 (no class 2/23), 6–8 pm</td>
<td>Anne Marie Breyer</td>
<td>$169/$185</td>
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<tr>
<td>3 Mondays</td>
<td>3/13–3/27, 6–8 pm</td>
<td>Anne Marie Breyer</td>
<td>$169/$185</td>
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</table>

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.

<table>
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<tr>
<th>Dates</th>
<th>Time</th>
<th>Instructor(s)</th>
<th>Cost</th>
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<tbody>
<tr>
<td>6 Wednesdays</td>
<td>11/2–12/14 (no class 11/23), 6–8 pm</td>
<td>Matthew DeBacco &amp; Kelley Crosson</td>
<td>$195/$215</td>
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<tr>
<td>6 Mondays</td>
<td>1/23–3/6 (no class 2/20), 6–8 pm</td>
<td>Matthew DeBacco &amp; Kelley Crosson</td>
<td>$195/$215</td>
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<tr>
<td>6 Wednesdays</td>
<td>3/8–4/19 (no class 4/5), 6–8 pm</td>
<td>Matthew DeBacco &amp; Kelley Crosson</td>
<td>$195/$215</td>
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</table>

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.

<table>
<thead>
<tr>
<th>Dates</th>
<th>Time</th>
<th>Instructor(s)</th>
<th>Cost</th>
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<tbody>
<tr>
<td>5 Tuesdays</td>
<td>2/7–3/7, 6:15–8:15 pm</td>
<td>Maya Kutz &amp; Kate Lodvikov</td>
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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.

<table>
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<tr>
<th>Dates</th>
<th>Time</th>
<th>Instructor(s)</th>
<th>Cost</th>
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<tr>
<td>8 Saturdays</td>
<td>9/17–11/12 (no class 10/8), 10:30 am–12:30 pm</td>
<td>Leslie Day</td>
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<td>8 Mondays</td>
<td>10/17–12/12 (no class 10/31), 6–8 pm</td>
<td>Martha Bucuvallas</td>
<td>$395/$435</td>
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<tr>
<td>8 Tuesdays</td>
<td>10/25–12/13, 6–8 pm</td>
<td>Anna Bakis</td>
<td>$395/$435</td>
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<tr>
<td>8 Tuesdays</td>
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<td>Martha Bucuvallas</td>
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<td>8 Saturdays</td>
<td>1/21–3/18 (no class on 2/18), 10:30 am–12:30 pm</td>
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<td>6 Tuesdays</td>
<td>2/7–3/14, 10 am–1 pm</td>
<td>Levi O’Brien</td>
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<td>8 Mondays</td>
<td>3/6–5/1 (no class 4/10), 6–8 pm</td>
<td>Nina Naghshineh</td>
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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.

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<th>Dates</th>
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<th>Instructor(s)</th>
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<tr>
<td>9 Wednesdays</td>
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<td>David Bulpitt</td>
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<td>9 Saturdays</td>
<td>1/7–3/18 (no class 1/14 &amp; 2/18), 10:30 am–12:30 pm</td>
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<td>9 Saturdays</td>
<td>1/21–4/1 (no class 2/18 &amp; 3/18), 1–3 pm</td>
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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.

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<tr>
<td>9 Mondays</td>
<td>9/19–11/21, 6:30–8:30 pm</td>
<td>David Bulpitt</td>
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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. Prerequisite: Intro to Plant Science | $219/$239

5 Saturdays, 10/22–11/19 9, 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, scientific and common names, and landscape uses of approximately 60 summer- and fall-blooming native and non-native perennials and grasses. 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

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 Serrano | 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 identification 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 TRACKS 1, 2, & 3
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 | $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 | 233HRT344O

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 3/8), 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 4/7), 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
Mobee Weinstein | Online | 233HRT356O
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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Hours</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Therapeutic Horticulture</td>
<td>THP 301</td>
<td>10</td>
<td>33</td>
</tr>
<tr>
<td>Therapeutic Horticulture for Older Adults</td>
<td>THP 401</td>
<td>12</td>
<td>33</td>
</tr>
<tr>
<td>Therapeutic Horticulture for Youth with Disabilities</td>
<td>THP 402</td>
<td>12</td>
<td>34</td>
</tr>
<tr>
<td>Therapeutic Horticulture for Mental Health</td>
<td>THP 404</td>
<td>12</td>
<td>33</td>
</tr>
<tr>
<td>Therapeutic Horticulture for Neurological Conditions</td>
<td>THP 403</td>
<td>12</td>
<td>34</td>
</tr>
<tr>
<td>Therapeutic Horticulture for Chronic Health Conditions</td>
<td>THP 405</td>
<td>12</td>
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### Foundations of Horticulture Classes

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
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<tbody>
<tr>
<td>Fundamentals of Gardening</td>
<td>GAR 301</td>
<td>12</td>
<td>24</td>
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<tr>
<td>Introduction to Plant Science</td>
<td>HRT 300</td>
<td>16</td>
<td>28</td>
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<tr>
<td>Plant Propagation I: Basic Principles</td>
<td>HRT 411</td>
<td>18</td>
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### Therapeutic Horticulture Techniques and Materials

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Accessibility in Therapeutic Horticulture Programming</td>
<td>THP 406</td>
<td>8</td>
<td>34</td>
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<tr>
<td>Indoor Plants for Therapeutic Programs</td>
<td>THP 350</td>
<td>8</td>
<td>34</td>
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<tr>
<td>Outdoor Plants for Therapeutic Programs**</td>
<td>THP 351</td>
<td>8</td>
<td>34</td>
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<tr>
<td>Therapeutic Horticulture Activity Planning</td>
<td>THP 407</td>
<td>10</td>
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<td>Therapeutic Horticulture Program Management</td>
<td>THP 409</td>
<td>10</td>
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<tr>
<td>Independent Study</td>
<td>THP 410</td>
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** Elective courses: 16**

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>Therapeutic Horticulture Site Visits (see note below)</td>
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</table>

TOTAL REQUIRED HOURS 191

### 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.  

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Instructor</th>
<th>Program</th>
<th>Location</th>
<th>Registration</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 Tuesdays, 10/11–11/1</td>
<td>6–8:30 pm</td>
<td>Amy Wagenfeld, OTR-L, Ph.D.</td>
<td>Online</td>
<td>232THP301AO</td>
<td>$395/$445</td>
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<tr>
<td>2 Tuesdays, 11/1–11/8</td>
<td>4–6:30 pm</td>
<td>Anne Meore, LMSW, HTR</td>
<td>NYBG &amp; Online</td>
<td>232THP301BBL</td>
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<tr>
<td>4 Tuesdays, 1/10–1/31</td>
<td>4–6:30 pm</td>
<td>Anne Meore, LMSW, HTR</td>
<td>Online</td>
<td>233THP301CO</td>
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</tr>
<tr>
<td>4 Tuesdays, 2/7–2/28</td>
<td>4–6:30 pm</td>
<td>Anne Wagenfeld, OTR-L, Ph.D.</td>
<td>Online</td>
<td>233THP301D0</td>
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<tr>
<td>2 Saturdays, 3/18–3/25</td>
<td>9 am † &amp;</td>
<td>Anne Meore, LMSW, HTR</td>
<td>NYBG &amp; Online</td>
<td>233THP301EBL</td>
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</table>

### 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.  

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<tr>
<th>Date</th>
<th>Time</th>
<th>Instructor</th>
<th>Program</th>
<th>Location</th>
<th>Registration</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Tuesdays, 10/11–10/25</td>
<td>6:30–8:45 pm &amp; Saturday, 10/29, 10 am–3:45 pm</td>
<td>Matthew Wichrowski, MSW, HTR</td>
<td>NYBG &amp; Online</td>
<td>232THP403A</td>
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<tr>
<td>3 Tuesdays, 1/17–1/31</td>
<td>6:30–8:45 pm &amp; Sunday, 2/5, 10 am–3:45 pm</td>
<td>Matthew Wichrowski, MSW, HTR</td>
<td>NYBG &amp; Online</td>
<td>233THP403B</td>
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</table>

### 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.  

<table>
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<tr>
<th>Date</th>
<th>Time</th>
<th>Instructor</th>
<th>Program</th>
<th>Location</th>
<th>Registration</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Wednesdays, 10/12–10/19</td>
<td>6:30–8:45 pm &amp; 2 Sundays, 10/23–10/30, 10 am–3:45 pm</td>
<td>Hilda Krus, MSW, HTR</td>
<td>NYBG &amp; Online</td>
<td>232THP404AABL</td>
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</tr>
<tr>
<td>2 Wednesdays, 1/11–1/18</td>
<td>6:30–8:45 pm &amp; Sunday, 1/22, 10 am–12:15 pm &amp; Sunday, 10 am–3:45 pm</td>
<td>Hilda Krus, MSW, HTR</td>
<td>NYBG &amp; Online</td>
<td>233THP404BBBL</td>
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</table>

### 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.  

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Instructor</th>
<th>Program</th>
<th>Location</th>
<th>Registration</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 Tuesdays, 11/1–11/22</td>
<td>6–8:30 pm  &amp; 2 Saturdays, 11/5 &amp; 11/12, 10 am–12 pm</td>
<td>Kathy Brechner, MBA, HTR</td>
<td>Online</td>
<td>232THP4010</td>
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<tr>
<td>6 Tuesdays, 2/21–3/28</td>
<td>6:30–8:30 pm</td>
<td>Kathy Brechner, MBA, HTR</td>
<td>Online</td>
<td>233THP401</td>
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</tbody>
</table>

**Note:** Courses offered in Spring–Summer catalog.  
Prerequisite: Introduction to Therapeutic Horticulture | $419/$459

**Note:** Courses with a prerequisite before you can register.  
Prerequisite: Introduction to Therapeutic Horticulture | $419/$459

† The start time for all sections is as listed; end times vary.  
See website for the full schedule.
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/$299

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 232THP405A0

3 Mondays, 3/6–4/10, 5–7 pm Amy Wagenfeld, OTR-L, Ph.D. | Online 233THP405B0

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 233THP4070

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

Illustration: Ginkgo Branches Series No.1, Colored Pencil, ©David Morrison
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

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Hours</th>
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<tbody>
<tr>
<td><strong>TIER 1—Introductory Classes</strong></td>
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<tr>
<td>Landscape Design History</td>
<td>LAN 301</td>
<td>24</td>
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<tr>
<td>Graphics I: Hand Rendering</td>
<td>LAN 311</td>
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<td>Landscape Measurement</td>
<td>LAN 340</td>
<td>12</td>
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<tr>
<td>Landscape Plants: Fall Trees and Shrubs</td>
<td>HRT 331</td>
<td>12</td>
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<td>Plants for Landscaping</td>
<td>HRT 358</td>
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<td><strong>TIER 2</strong></td>
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<td>Landscape Design I: Site Analysis and Schematic Design</td>
<td>LAN 401</td>
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<tr>
<td>Landscape Design II: Design Development</td>
<td>LAN 402</td>
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<tr>
<td>Estimating</td>
<td>LAN 380</td>
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<td>Graphics II: Dynascape</td>
<td>LAN 427</td>
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<td>Site Materials and Details</td>
<td>LAN 422</td>
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<td><strong>TIER 3</strong></td>
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<td>Grading &amp; Drainage</td>
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<td>Graphics III: Photoshop</td>
<td>LAN 417</td>
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<td>Landscape Design III: Planting Design</td>
<td>LAN 403</td>
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<tr>
<td>Business Practices for Landscape Professional</td>
<td>LAN 457</td>
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<td>Landscape Design IV: Design and Construction</td>
<td>LAN 520</td>
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<tr>
<td>Portfolio and Presentation Skills</td>
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<td><strong>TOTAL REQUIRED HOURS</strong></td>
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<td>343</td>
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</tbody>
</table>

*Course hours do not include exam hours

**Courses offered in the Spring–Summer Catalog

Courses with a prerequisite before you can register.

For professional organizations, see p. 43.

### QUESTIONS?

CONTACT PROGRAM COORDINATOR

SUSAN COHEN AT Lancoordinator@nybg.org

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## 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 landscape design who are considering a Certificate. | $185/$205

4 Mondays, 11/28–12/19, 6:15–8:15 pm

Kimberly Tryba | Online | 232LAN100BO

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 | 233LAN100CO

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 | 233LAN100EO

### 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. | 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 BERM S

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

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### 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.
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 enhance 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. I $59/$65
Saturday, 2/11, 10 am–12 pm
Jan Johnsen | NYBG | 233LAN234

NEW! EARLY AMERICAN WOMEN DESIGNERS
Study three pioneering women designers—Beatrix 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. I $125/$139
3 Thursdays, 3/9–3/23, 6–8 pm
Paula Capps Sarathy | Online | 233LAN2780

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. I $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. I $59/$65
Wednesday, 3/29, 10 am–12 pm
Jan Johnsen | NYBG | 233LAN169

NEW! MANAGING WATER
This course is also required for the Horticulture Certificate TRACK 4.
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.
10 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. Basic computer skills and PC laptop required. Prerequisite: Graphics | $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 | 233LAN427B

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. I $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 | 232LAN401O

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 | 233LAN437BL

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 | 233LAN422O

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. I $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 Phaosawadi | 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
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 | 233LAN265A

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, Helium, Echinacea, and wild hydrangea. He will also provide a brief preview on the ongoing Corex, 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 | 233LAN265B

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 | 233LAN265C

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, MLA, 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 | 233LAN265D

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 | 233LAN265E

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, PL, FASLA, LaGuardia Design Group (LDG) works extensively on the East End of Long Island, as well as 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, HGTB, 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 | 233LAN265F

CEUs are available.
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

<table>
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<th>Course</th>
<th>Code</th>
<th>Hours</th>
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<td>Native Flora in Winter</td>
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<td>Native Flora in Spring**</td>
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<td>Natural History of Birds: Spring**</td>
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<td>Natural History of Insects</td>
<td>NAT 322</td>
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<td>Introduction to Urban Ecology</td>
<td>NAT 338</td>
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<td>The Ecosystems of New York City**</td>
<td>NAT 337</td>
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<td>Urban Ecology Field Study Workshop**</td>
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ELECTIVES

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

<table>
<thead>
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<th>Course</th>
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<td>Field Sketching</td>
<td>NAT 400</td>
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<td>Bronx River Ecology</td>
<td>NAT 359</td>
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<td>Urban Mammals</td>
<td>NAT 326</td>
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<td>Amphibians of the Northeast</td>
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**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

©Karene Infranco, NYBG Rock Garden, Pastel
**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

**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

**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

**INTRODUCTION TO URBAN ECOLOGY**
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
Liz Johnson | Online | 232NAT338O

**NATIVE FLORA IN WINTER**
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 | 233NAT470

**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 classes are presented for informational purposes only and are not intended for self-medication.
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. Applicators 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 Adebole 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 718.817.6995.

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

<table>
<thead>
<tr>
<th>Grade</th>
<th>GPA</th>
<th>Percentile</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>4.0</td>
<td>94-100</td>
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<tr>
<td>A-</td>
<td>3.7</td>
<td>90-93</td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
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<tr>
<td>B</td>
<td>3.0</td>
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<tr>
<td>B-</td>
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<tr>
<td>C+</td>
<td>2.3</td>
<td>77-79</td>
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<tr>
<td>C</td>
<td>2.0</td>
<td>73-76</td>
</tr>
<tr>
<td>C-</td>
<td>1.7</td>
<td>70-72</td>
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<tr>
<td>D+</td>
<td>1.3</td>
<td>67-69</td>
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<tr>
<td>F</td>
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<td>0-59</td>
</tr>
<tr>
<td>NC</td>
<td>0</td>
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</tr>
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</table>

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 adulteducation@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 are not 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.

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 Mosholu 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

<table>
<thead>
<tr>
<th>BOTANY</th>
<th>Page</th>
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<tbody>
<tr>
<td>10/15  10:00 am Autumn Mushrooms</td>
<td>10</td>
</tr>
<tr>
<td>10/20  6:00 pm What’s This Tree on My Block?</td>
<td>10</td>
</tr>
<tr>
<td>1/24  6:00 pm The Hidden World of Lichens</td>
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<tr>
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<tr>
<td>11/7  6:00 pm Origami Botany: Holiday Edition</td>
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<tr>
<td>11/9  6:00 pm Watercolor Basics</td>
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<td>2/15  6:00 pm Watercolor Basics</td>
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<tr>
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<tbody>
<tr>
<td>10/5  6:00 pm Flower Arranging with Store-Bought Bouquets</td>
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<tr>
<td>10/15  10:30 am Fundamentals of Style</td>
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<tr>
<td>10/26  6:00 pm Gothic Style: Dark and Dramatic</td>
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<tr>
<td>11/30  6:00 pm Flower Arranging with Store-Bought Bouquets</td>
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<tr>
<td>1/17  10:30 am Fundamentals of Form: Mini-Intensive</td>
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<tr>
<td>1/24  10:30 am Fundamentals of Style: Mini-Intensive</td>
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<td>1/31  10:30 am Wedding Design I: Mini-Intensive</td>
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<tr>
<td>2/4  10:00 am Style and Shoot: Baroque</td>
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<tr>
<td>2/8  6:00 pm Flower Arranging with Store-Bought Bouquets</td>
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<tr>
<td>2/21  11:00 am Ikebana: A Comprehensive Approach</td>
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<tr>
<td>3/21  6:00 pm Flower Arranging with Store-Bought Bouquets</td>
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<tbody>
<tr>
<td>9/15  6:30 pm Perennial Plant Combinations</td>
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<tr>
<td>10/22  10:00 am Apartment Gardener’s Saturday</td>
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<tr>
<td>12/3  10:00 am Indoor Tropicals</td>
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<tr>
<td>2/11  10:00 am Indoor Tropicals</td>
</tr>
<tr>
<td>3/15  6:00 pm Vertical Gardening: Vines and Climbers</td>
</tr>
<tr>
<td>3/18  10:00 am A Garden Design Primer</td>
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<tr>
<td>3/18  10:00 am Container Gardening</td>
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<tr>
<td>3/25  10:30 am Perennial Plant Combinations</td>
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<thead>
<tr>
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<tbody>
<tr>
<td>11/5  10:00 am Intro to Landscape Design</td>
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<tr>
<td>2/25  10:00 am Intro to Landscape Design</td>
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<tbody>
<tr>
<td>10/29  10:30 am Herbal Saturday</td>
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<tr>
<td>10/20  6:00 pm Cempazúchitl: Mexico’s Marigold</td>
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<tr>
<td>12/8  6:00 pm Pine Medicine</td>
</tr>
<tr>
<td>1/24  6:00 pm Incense Making</td>
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</tbody>
</table>
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.