

NYBG

ADULT EDUCATION | FALL 2018–WINTER 2019



NEW YORK BOTANICAL GARDEN

Welcome!

Welcome to another season of NYBG Adult Education... and another catalog packed with ways to enrich your relationship to plants and the natural world!

Don't miss our lecture lineup featuring National Book Award Winner Richard Powers—his best-seller *The Overstory* is already called the “Great American Eco-Novel”—and historian Victoria Johnson, whose *American Eden* tells the captivating story of David Hosack, founder of America's first public garden. In October, the celebrated floral design duo of Putnam & Putnam brings a large-scale floral demonstration to the Ross Hall stage. November brings conservation into your backyard at the *Cultivating a New Garden Ethic* symposium. Then, in January, Martha Stewart kicks off our Winter Lecture Series, *The Education of a Gardener*. And be sure to check out our new Food & Drink classes—so you can explore everything from jam making to cucumber pickling to kombucha brewing to tequila tasting!

We've got so much for you to explore and enjoy this fall and winter... so dig deep!

If you have never taken a class with us before...welcome to the catalog. Each section leads off with short, intro classes you can take just for fun. As a matter of fact, you may register for any class that doesn't have a prerequisite, including those labeled “Certificate Elective” or “Certificate Requirement.”

If you are a returning student...welcome back! We have dozens of new classes and workshops for you to explore and discover.

If you are on a new career path or thinking about a career change... Think about upgrading your professional profile and actively pursuing a prestigious NYBG Certificate. Develop new skills, contacts, and cross-disciplinary experience. Catch up with the latest industry changes. A NYBG Certificate is a serious credential that tells employers and clients that you've made a serious commitment to your professional development.

Choose from a wide variety of day, evening, and weekend classes at the Garden or at our Midtown Education Center. Our programs are made to fit your needs, as well as your schedule.

Registration is now open. Please visit nybg.org/adulted or call 718.817.8747. Prices listed are Member/Non-Member. Not a Member yet? Call 718.817.8703.



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

Contents

- 2 Landscape Design Portfolios Lecture Series**
Time, Place & Story: Design at the Crossroads
- 3 Winter Lecture Series**
The Education of a Gardener
- 4 Andrew Carnegie Distinguished Lecture**
AMERICAN EDEN: David Hosack, Botany, and Medicine in the Garden of the Early Republic
- 4 Symposium**
Cultivating a New Garden Ethic
- 5 Floral Design Showcase with Putnam & Putnam**
- 5 *The Overstory: A Conversation with Richard Powers***
- 5 World Premiere Film Screening**
Beatrix Farrand's American Landscapes
- 7 Botanical Art & Illustration**
- 13 Botany**
- 16 Crafts & DIY**
- 19 Floral Design**
- 24 Food & Drink**
- 27 Gardening**
- 35 Horticulture**
- 41 Horticultural Therapy**
- 45 Landscape Design**
- 50 Photography**
- 53 Urban Naturalist**
- 56 Wellness**
- 58 Academic Policies & Procedures**
- 59 Professional Societies, CEUs,
& Academic Programs**
- 60 Classes at Midtown Education Center**
- inside back cover** Registration & General Information

ABOUT THE COVER: The artwork on our cover and throughout the catalog is by artist and Instagram sensation Bridget Beth Collins, who forages natural materials for her charming creations from the sidewalks, meadows, and woods in her Seattle neighborhood. Find out more about her at FloraForager.com or check out her book *The Art of Flora Forager* (Sasquatch Books).



20th Annual Landscape Design Portfolios Lecture Series

TIME, PLACE & STORY: DESIGN AT THE CROSSROADS

For the 20th anniversary of this series, we invite you to hear from three innovative leaders in the field of contemporary landscape design. From the tireless advocacy of The Cultural Landscape Foundation to the timeless designs of Reed Hilderbrand and Nelson Byrd Woltz Landscape Architects, the collective work of this year's speakers demonstrates a steadfast dedication to ensuring that the public has access to beautiful landscapes that heal the land, tell powerful stories, and celebrate history, culture, and ecology.

**3 Mondays, October 1, October 15,
November 5, 6:30–7:30 pm**

**Scandinavia House, 58 Park Avenue
at 38th Street, Manhattan**

CHARLES BIRNBAUM



Change and Continuity

As urban growth continues at a relentless pace, Charles A. Birnbaum, FASLA, FAAR, believes it is crucial for landscape architects to weave a site's history into new designs, but not in ways that are nostalgic or staid. He points to the

Lincoln Road Mall (Miami), the Russell Page Garden at The Frick Collection, the High Line, Peavy Plaza (Minneapolis), and Spain's Madrid RIO as engaging examples of how historic preservation can blend with modern design to showcase a city's unique cultural assets. The founder and CEO of The Cultural Landscape Foundation (TCLF), Birnbaum is also at the forefront of efforts to save significant works of landscape architecture, including Chicago's Olmsted and Vaux-designed Jackson Park and Washington, D.C.'s Modernist Pershing Park. Prior to establishing TCLF in 1998, Birnbaum served for 15 years as Coordinator of the National Park Service History Landscape Initiative. Currently a Visiting Professor at Columbia University Graduate School of Architecture Planning + Preservation, he has authored and edited numerous publications and received many awards, most recently the ASLA Medal (2017).

October 1 | 192LAN801B



Photo ©La Citta Vita, Park space, Madrid RIO

BEKA STURGES



Giving Voice to the Land

"We gave the landscape voice... and turned the museum toward the land." This is how Reed Hilderbrand Principal Beka Sturges, ASLA, LEED AP, describes her firm's award-winning expansion of The Clark Art Institute for which she served as landscape architect and manager.

The Clark is just one of many high-profile projects Sturges has led—each one a powerful spatial demonstration of the cultural and environmental value of landscapes. This sensitive integration of architecture, ecology, and history can also be seen at The Mill, a residential project that draws inspiration from Eastern Connecticut's rolling terrain and agrarian traditions and unifies upland meadows with the stream and raceway of a ruined industrial mill. Similarly, Sturges's designed garden surrounding the Minimalist house at the Old Quarry (CT) reorders and manipulates the industrial site's own granite—refuse and bedrock—to create pathways and places within the rough remains. Thus, Old Quarry's essential character has been unearthed, not carpeted. Her other current work includes landscapes at Yale and Brown Universities, Boscobel House and Gardens, Storm King Art Center, and the four-acre Mill River Trail through the center of New Haven. A committed educator, Sturges teaches landscape studios at Connecticut College.

October 15 | 192LAN801C



THOMAS WOLTZ



At the Interface of Ecology and Culture

For 20 years, Thomas Woltz, FASLA, CLARB, NZILA, has practiced landscape architecture at the intersection of art, ecology and culture. As the owner of Nelson Byrd Woltz Landscape Architects (NBW), he has led the design of public parks across North

America, Australia and New Zealand, each design demonstrating NBW's commitment to extensive site research, community collaboration, native ecologies, and site history. The resulting designs restore the essential stories and ecologies of public lands while building inclusive, resilient parks for the future.

In this talk, Woltz will present a selection of NBW's current work, including Hudson Yards (NYC), the Aga Khan Garden (Alberta, Canada), and Naval Cemetery Landscape (Brooklyn). These public landscapes demonstrate the broad range of the practice—from a highly engineered habitat atop an active train yard to an Islamic garden near the Arctic Circle to a restored meadow as memorial. Woltz continues to lead NBW's Conservation Agriculture Studio, partnering with landowners, scientists, and farm managers to restore farmland and create models for sustainable agriculture. In 2013 he was named Design Innovator of the Year by *The Wall Street Journal* and serves on the Board of Directors for The Cultural Landscape Foundation and the University of Virginia's School of Architecture Foundation.

November 5 | 192LAN801D



Registration fee for each lecture: \$23/\$26. Register for the series and receive a discount: 192LAN801A | \$62/\$69

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

SUPPORT GENEROUSLY PROVIDED BY THE HEIMBOLD FAMILY.



19th Annual Winter Lecture Series

THE EDUCATION OF A GARDENER

“I know now that one cannot be taught to design gardens academically or theoretically. You have to learn the ways and nature of plants and stone, of water and soil at least as much through the hands as through the head.” —*The Education of a Gardener* by Russell Page

There are many points of entry into the gardening life. For some it begins in childhood; some come to it through other disciplines. Three distinguished and passionate practitioners share their philosophies, their stories, and the lessons they have learned along the way.

**3 Thursdays, January 31,
February 28, March 28, 10–11:30 am**
Ross Hall, NYBG

MARTHA STEWART | A Life in Gardening



“I think I may be a better person for having given serious time and thought and effort to gardening.”

Martha Stewart’s lifelong love of gardening began as she planted alongside her father in their backyard family plots. Those early

lessons, along with the advice she’s gleaned from master gardeners and plantsmen, and her extensive travels to historic gardens around the world—all form the foundation of her development as a serious gardener. Her wide-ranging, thoughtful approach to design, planting, sustainability, and landscape can be seen in the spectacular yet diverse gardens she has created, which include Turkey Hill in Connecticut, the historic Skylands on Maine’s Mount Desert Island, and the 150-acre Cantioe Farm in Katonah, New York.

Entrepreneur, best-selling author, and Emmy Award-winning television host Martha Stewart has gained success through her many ventures in publishing, broadcasting, merchandising, and e-commerce. She is the founder of Martha Stewart Living Omnimedia, and has written 90 books—most recently *Martha’s Flowers: A Practical Guide to Growing, Gathering, and Enjoying*—co-authored with Kevin Sharkey, who will be joining Martha for a moderated conversation following her talk.

January 31 | 193GAR801B

JINNY BLOM | The Thoughtful Gardener



“The landscapes we make outlast us by many years therefore they must be dignified with thought and love.”

Self-taught, and with a lifelong interest in natural landscapes, gardens, and architecture, Jinny Blom launched her landscape design practice in 2000

Photo ©N. Jouan

after 20 years as a psychologist. Today, she is one of the U.K.’s leading landscape gardeners—celebrated for her skill with plants, her spatial understanding, and an ability to create gardens that respond to the history of a site and its wider landscape. In formal walled spaces and contemporary installations, in town gardens and vast country estates, Blom pushes creative boundaries, incorporating unexpected design elements and a wide variety of styles.

With hundreds of gardens worldwide to her credit, Jinny Blom is celebrated internationally for her innovative and uniquely thoughtful work. A frequent contributor to U.K. and U.S. gardening and lifestyle publications, she is author of the bestselling *The Thoughtful Gardener, An intelligent approach to garden design*. Blom has designed five award-winning gardens for the RHS Chelsea Flower Show, winning Gold in 2007.

February 28 | 193GAR801C

MARGARET ROACH | A Way to Garden



“I garden because I cannot help myself.”

Called back to her childhood home at age 25 to care for an ailing widowed parent, Margaret Roach sought refuge in self-prescribed backyard horticultural-therapy experiments. Thirty years

ago she dug up her young *Sciadopitys* from that first foray, to transplant at the overgrown place she bought in the Hudson Valley, where she lives fulltime. There, the birds taught her to truly garden, offering a window into natural sciences and organic practices, and she strives to create a 365-day garden to sustain them—and herself. The 2.3-acre place juxtaposes habitat-style and collector plantings, the latter emphasizing foliage, including much that is large or gold.

After stints as garden editor at *Martha Stewart Living* and *Newsday*, Margaret Roach now creates the nationally acclaimed website *A Way to Garden* and its companion public radio show-podcast, where she shares her deep garden knowledge and the unique approach she describes as “horticultural how-to and woo-hoo.” Roach has authored three books—her first, also titled *A Way to Garden*, is being released as an all-new 21st-anniversary edition in spring 2019.

March 28 | 193GAR801D



Registration fee for each lecture: \$32/\$35. Register for the series and receive a discount: 193GAR801A | \$85/\$95 [CEUs](#)

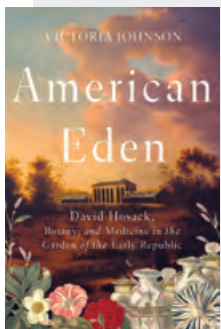
FUNDED IN PART BY THE BARBARA CUSHING PALEY FUND.

**ANDREW CARNEGIE
DISTINGUISHED LECTURE**

*AMERICAN EDEN:
David Hosack, Botany,
and Medicine in the Garden
of the Early Republic*

**Victoria Johnson in conversation
with Marta McDowell**

**Thursday, October 18, 6 pm
Christie's, 20 Rockefeller Plaza, NYC**



This fascinating talk by Victoria Johnson features her acclaimed new book, *American Eden* (“A captivating biography” —*The Wall Street Journal*). When Alexander Hamilton and Aaron Burr fought their famous duel in July 1804, they chose the same attending

physician: David Hosack—their mutual friend. Though unknown to most people today, Hosack founded America’s first public garden in 1801 on 20 acres of Manhattan farmland (now Rockefeller Center). His spectacular collection of medicinal, agricultural, and ornamental plants brought him worldwide praise from Thomas Jefferson, Alexander von Humboldt, and others. Hosack trained the next generation of American doctors and naturalists at his pioneering institution, and conducted some of the first pharmaceutical research in the United States. After her presentation, Johnson will be joined by Marta McDowell for an engaging conversation about Hosack and his work.

Victoria Johnson holds a Ph.D. in sociology from Columbia University and a B.A. in philosophy from Yale. At Hunter College she teaches on the history of philanthropy, the natural environment, and New York City.

Marta McDowell is the author of several books, including *All the Presidents’ Gardens* and *The World of Laura Ingalls Wilder*. She teaches landscape history and horticulture at The New York Botanical Garden.

192GAR821 | \$25/\$29
(Complimentary for Garden Patrons)

Support has been provided by Carnegie Corporation of New York.

This event is generously hosted by Christie’s.

Symposium

Cultivating a New Garden Ethic

Wednesday, November 28, 10 am–12:30 pm | Ross Hall, NYBG

Our gardens are places of beauty, sources of food, and expressions of our creativity. They are also windows into the magic of nature and are inextricably connected to the natural world that sustains us. But can our gardens help clean our air and water, sustain wild plants and animals, and restore ecosystem health? In this symposium three distinguished speakers explore how our gardening practices can satisfy our desire to create bountiful beauty while helping heal the larger environment. We’ll end with a panel discussion and a Q&A with the audience.



Integrating Restoration Techniques and Garden Design

Award-winning landscape designer **Larry Weaner** discusses techniques for gracefully integrating native plants and ecological processes to create diverse, low-maintenance gardens. The author of *Garden Revolution*, Weaner’s design and restoration work has been profiled in *The New York Times*, *Garden Design*, and *The Wall Street Journal*, among other publications.



Saving Tarboo Creek: A Case Study in Ecological Restoration

Scott Freeman shares lessons he has learned on the massive restoration project he and his wife, Susan, lead in Washington, where they are transforming a badly damaged creek into a meandering stream that supports abundant wildlife again. A lecturer at the University of Washington, Freeman has authored biology and ecology textbooks now in their six editions, as well as the newly published *Saving Tarboo Creek*.



**PlantRight:
Growing Healthier Landscapes Starts in Our Gardens**

Jan Merryweather, Program Director at Sustainable Conservation, shares how their PlantRight initiative has built a robust network of volunteers, retailers, horticultural and landscape leaders, and state agencies—all working together to keep invasive plants out of California nurseries, gardens, and wildlands. PlantRight’s success is based on a collaborative, science-based, and voluntary approach to solving environmental problems in ways that make economic sense.

192HRT810 | \$25/\$29 CEUs will be provided





Muir Woods National Monument

The Overstory: A Conversation with Richard Powers

Thursday, March 7, 10:30 am
Ross Hall, NYBG

Critics are raving about *The Overstory*, Richard Powers's sweeping, passionate novel about trees, people, and our planet's existential struggle between humans and non-humans. In a series of concentric and interlocking stories ranging from antebellum New York to the late 20th-Century Timber Wars of the Pacific Northwest, trees bring small lives together into larger acts of war, love, loyalty, and betrayal.

Join one of our most "prodigiously talented" (*The New York Times Book Review*) novelists for a compelling conversation—with audience Q&A and bookplate signing to follow.

"Remarkable... soars up through the canopy of American literature."

—*The Washington Post*

Richard Powers is the author of 12 novels. He is the recipient of a MacArthur Fellowship and the National Book Award, and has been a Pulitzer Prize and four-time National Book Critics Circle Award finalist. Powers lives in the foothills of the Great Smoky Mountains.

193HRT811 | \$25/\$29

The Humanities Institute presents

Beatrix Farrand's American Landscapes The World Premiere of a new documentary film

Friday, March 15, 10:30 am–12 pm | Ross Hall, NYBG

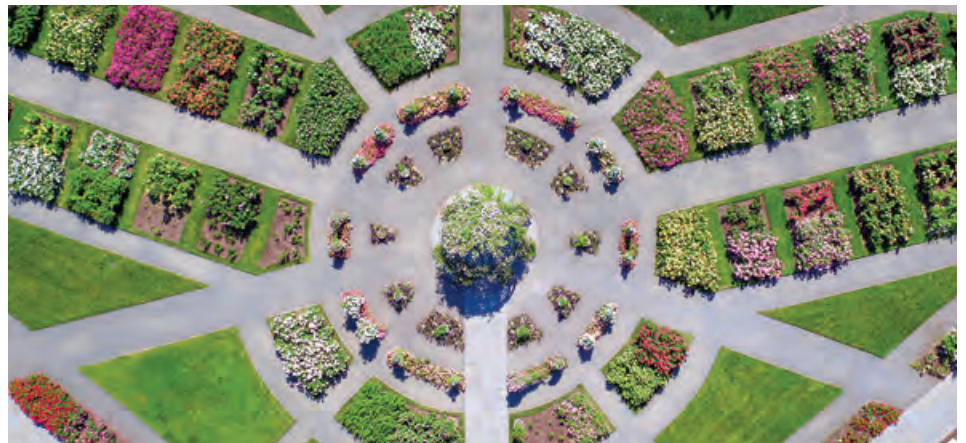
Beatrix Farrand was one of the most influential and innovative garden designers of the early 20th century and the only female charter member of the American Society of Landscape Architects. Over a 50-year career, she completed design commissions at the White House, the Morgan Library, the Abby Aldrich Rockefeller Garden in Maine, the Peggy Rockefeller Rose Garden at NYBG, campus designs at Princeton and Yale, and Dumbarton Oaks in Washington, D.C.

Beatrix Farrand's American Landscapes, a new film from director Stephen Ives and horticulturist Anne Cleves Symmes, explores the groundbreaking ideas of this artist who created a distinctive American voice in landscape design. Lynden B. Miller, the designer of many New York City public landscapes, including the restoration of The Conservatory Garden in Central Park, is the film's host. Miller sets out on a journey to unearth Farrand's extraordinary legacy, engaging leading garden experts, historians, and scholars as they move through the iconic landscapes of this pioneering American designer.

After the screening, a conversation about Farrand and the film will be moderated by Sir Peter Crane, President of the Oak Spring Garden Foundation.

193LAN816 | \$10/\$20

Supported by The Andrew W. Mellon Foundation



Floral Design Showcase with Putnam & Putnam

Friday, October 26, 10–11:30 am | Ross Hall, NYBG



With their romantic and artfully chaotic approach to floral design, Michael and Darroch Putnam have become the toast of New York's fashion and wedding scene, not to mention the City's editorial and art circles. Their densely layered, opulent arrangements were recently featured in a 14-page spread in *Vogue*, and they count Bergdorf's, Dior, and Cartier among their A-list clients. To mark the publication of their new *Flower Color Guide*—a reference book organizing flower types by color—the Putnams take to NYBG's big stage in Ross Hall for a large-scale, in-depth floral demonstration. They'll take you through

their vision and process—from imagining colors and selecting flowers to preparing vessels and building lush, organic arrangements. Audience Q&A and booksigning to follow.

192FDN421 | \$25/\$29

BOTANICAL ART & ILLUSTRATION



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

THE CERTIFICATE PROGRAM

The Botanical Art & Illustration requirements provide a solid foundation in scientifically accurate drawing based on observation and fine art techniques. Those who achieve the highest level of accomplishment receive a Certificate in Botanical Art & Illustration with Honors, an indication of superior work.

During the course of the program, students will:

- Acquire skills in drawing and/or painting accurately and beautifully.
- Develop techniques needed to re-create amazing detail, natural color, and convincing form.
- Gain knowledge of basic morphological features of plants.
- Learn elements of successful composition—whether for scientific illustration or fine artwork.
- Through electives, learn the history of botanical art, and explore various specialty subjects.
- Develop a personal aesthetic and a strong artistic identity.
- Enjoy access to the exceptional collection of botanical art in the Garden's LuEsther T. Mertz Library and the library of the American Society of Botanical Artists.

STUDENT INFORMATION

CLASS MATERIAL:

A materials list for every class is included in the course description on our website and in your confirmation email. Please bring lunch to classes meeting all day.

HOMEWORK:

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

FINAL PROJECT FOR CERTIFICATION:

If you plan to graduate in June 2019, the final project due date is April 25, 2019. In order to be considered for graduation, you must submit a project proposal for approval to Robin Jess, the Program Coordinator. You must also show your work-in-progress to Robin at least once. Guidelines can be obtained from the Registration Office.



The Program Coordinator, Robin A. Jess, is the former Executive Director of the American Society of Botanical Artists. Robin was a freelance illustrator for 15 years at NYBG with Dr. Arthur Cronquist, an internationally recognized leader in the field of plant systematics, as well as the founding Coordinator of the Botanical Art and Illustration Certificate Program. Robin was a presenter at the 2017 Korean National Arboretum International Symposium and is a contributing artist in the National Tropical Botanical Garden, Kauai Florilegium Society.

Robin A. Jess, Program Coordinator
Laura Vogel, Program Advisor

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

Tri-State Botanical Artists of NYBG



TSBA is a lively group of over 40 artists who meet to engage in critiques, monthly art challenges, a sketchbook exchange, and discussions about relevant topics. We invite all current Certificate students and alumni to join us! TSBA is recognized as an ASBA Circle. Meetings are free and held at 11 am on the last Tuesday of each month at NYBG. See p. 59 for more information.

CERTIFICATE REQUIREMENTS

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

COURSE (in Recommended Order)	CODE	HOURS	PAGE
Botanical Drawing I: Methods and Materials	BIL 301	18	9
Botanical Drawing II: Developing Your Skills	BIL 302 P	18	9
The Basics of Visual Composition (should be completed early)	BIL 421 P	18	10
Botanical Drawing III: Focus on Flowers	BIL 303 P	18	9
Plant Morphology for Botanical Artists	BIL 300 P	20	9
Botanical Watercolor I	BIL 331 P	24	9
Practical Aspects of Botanical Art	BIL 392 P	10	10
<i>Plus one of the following:</i>			
Internet Tools for Creatives, Part I: Social Media	BIL 394	5	10
Internet Tools for Creatives, Part II: Website	BIL 395	7	10
Pen and Ink	BIL 400 P	18	10
Colored Pencil	BIL 415 P	18	9
<i>Elective courses</i>		54	
TOTAL REQUIRED HOURS		221***	

ELECTIVES

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

COURSE	CODE	HOURS	PAGE
Branching Out in Silverpoint	BIL 351 P	12	8
Accordion Book: Illustrating A Life Cycle	BIL 615 P	18	11
The Stages of Crabapples	BIL 402 P	8	9
Sunflowers in Graphite and Watercolor	BIL 368 P	10	11
Autumn Harvest in Color	BIL 385 P	15	9
Glowing Watercolor Washes with John Pastoriza-Piñol	BIL 428 P	15	11
Botanical Watercolor II	BIL 332	18	9
Composing a Plant's Habitat	BIL 348 P	15	11
Birds of Prey	BIL 388 P	12	11
Drawing Conifers	BIL 404 P	15	11
A Classic Plate: The Story of a Plant	BIL 390 P	12	10
Understanding Orchids	BIL 324	5	9
Amaryllis from Bulb to Blossoms	BIL 398 P	20	11
Contemporary Composition with Elaine Searle	BIL 420 P	9	11

**Courses offered in the Fall-Winter Catalog

***Plus a final project that meets Certificate standards

P Courses with a prerequisite before you can register

For information on the Tri-State Botanical Artists (TSBA) at NYBG and professional art organizations, see p. 59.



BOTANICAL WATERCOLOR FOR BEGINNERS AND BEYOND

Enjoy painting botanical watercolors in a relaxed atmosphere. This class is designed for both inexperienced students and those who wish to improve their skills. Sign up for one section, or several! Lectures and demonstrations are enhanced by individual instruction. Work at your own pace on a variety of pieces.

5 Mondays, 9/24–10/29 (no class 10/8),
10 am–2:30 pm
Laura Vogel | Manhattan | 191BIL140C

5 Mondays, 11/5–12/17 (no class 11/12 & 12/3),
10 am–2:30 pm
Laura Vogel | Manhattan | 192BIL140A

5 Mondays, 1/7–2/11 (no class 1/21), 10 am–2:30 pm
Laura Vogel | Manhattan | 193BIL140B

5 Saturdays, 1/26–3/2 (no class 2/16),
10 am–2:30 pm
Laura Vogel | NYBG | 193BIL140C

5 Mondays, 3/11–4/8, 10 am–2:30 pm
Laura Vogel | Manhattan | 193BIL140D

\$345/\$379

BOTANICAL DRAWING FOR BEGINNERS

Do you ever wish you could capture the details of a plant long after you've seen it? This intro class teaches you how to make realistic drawings of plants using a variety of techniques. Learn to draw a selection of plant parts, including branches, stems, leaves, and flowers, for pleasure or to expand your drawing skills.

4 Tuesdays, 9/18–10/9, 10 am–1 pm
Susan Sapanara | NYBG | 191BIL145D

4 Wednesdays, 9/26–10/17, 6–9 pm
Katy Lyness | Manhattan | 191BIL145E

4 Saturdays, 12/8–1/12 (no class 12/22 & 12/29),
10 am–1 pm
Mary Christiansen | NYBG | 192BIL145A

4 Thursdays, 2/7–2/28, 10 am–1 pm
Linda Nemergut | NYBG | 193BIL145B

4 Tuesdays, 3/5–3/26, 6–9 pm
Rose Marie James | Manhattan | 193BIL145C

\$229/\$249


BRANCHING OUT IN SILVERPOINT

Evoke the craggy, peeling, or gnarled textures of bark using silverpoint, whose shine develops a soft patina over time, adding complexity to your drawing. Using a silver wire held in a stylus, experiment with all aspects of this ancient medium. Learn to prepare the substrate, develop a skillful handling of the drawing material, and add a subtle touch of color to the finished drawing. **P** Prerequisite: *Botanical Drawing II*

3 Thursdays, 9/13–9/27, 10 am–2:30 pm
Linda M. Nemergut | NYBG | 191BIL351

\$285/\$315 *Certificate Elective*

NEW! THE STAGES OF CRABAPPLES

Build upon the skills you learned in *Watercolor I* to accurately render the highlights and glossy surface textures of the crabapple's diminutive, round fruits. If you took the spring section, you can use this opportunity to add a fruiting branch to your flower composition.  Prerequisite: *Botanical Watercolor I*

2 Wednesdays, 9/26 & 10/3, 10 am–2:30 pm
Robin Jess | NYBG | 191BIL402B

\$195/\$215 *Certificate Elective*


CAPTURING THE CHARACTER OF TREES

Explore special drawing techniques and create dynamic compositions that capture the nature and "personality" of NYBG's exquisite specimen trees. From a weeping willow to a sturdy oak, trees all have defining characteristics. Frank Guida will take you en plein air to try your hand at depicting the essence of trees. Please dress for the outdoors.

Friday, 10/5 (Rain date 10/19), 10 am–3 pm
Frank Guida | NYBG | 192BIL205

\$95/\$105

NEW! AUTUMN HARVEST IN COLOR

Revel in autumn while learning how to layer watercolor, colored pencil, and watercolor pencil to create rich color, detail, and form. You'll experiment with a dynamic blend of botanical drawing and painting techniques while focusing on the structure of autumn flowers, leaves, gourds, squashes, and fall roots.  Prerequisite: *Botanical Drawing I*

Wednesday–Friday, 11/7–11/9, 10 am–4 pm
Wendy Hollender | NYBG | 192BIL385

\$395/\$435 *Certificate Elective*

UNDERSTANDING ORCHIDS

This one-day session is devoted to an in-depth study of orchids. Look at some of the special adaptations and growth patterns, and use microscopes and lab books. Examine and record differences and similarities in this very large and varied group of plants. A single plate rendered in pen and ink is required for a grade. Please bring lunch.

 Prerequisite: *Plant Morphology Botanical Artists*

Saturday, 3/16, 10 am–3:30 pm
Dick Rauh | NYBG | 193BIL324

\$125/\$139 *Certificate Elective*

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 plant parts and growth stages of the most common plant families.

 Prerequisite: *Botanical Drawing I*

8 Saturdays, 10/20–12/15 (no class 11/24),
10 am–12:30 pm
Dick Rauh | NYBG | 192BIL300A

5 Saturdays, 2/2–3/9 (no class 2/16), 10 am–2 pm
Robin Jess | Manhattan | 193BIL300B

\$495/\$545 *Certificate Requirement*

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.

5 Fridays, 9/14–10/19 (no class 10/12),
10 am–1:35 pm

Rose Marie James | NYBG | 191BIL301E


6 Tuesdays, 9/25–10/30, 6–9 pm
Laura Vogel | Manhattan | 191BIL301F

6 Wednesdays, 1/9–2/13, 10 am–1 pm
Linda M. Nemergut | NYBG | 193BIL301A

6 Wednesdays, 1/9–2/13, 6–9 pm
Laura Vogel | Manhattan | 193BIL301B

\$435/\$479 *Certificate Requirement*

BOTANICAL DRAWING II: DEVELOPING YOUR SKILLS

Building on Botanical Drawing I skills, learn to tone fruit, vegetables, leaves, and branches. Focus on concepts of light source, value, and shading to create form. Learn to translate color into black and white, and create the illusion of depth and space in your work.  Prerequisite: *Botanical Drawing I*

5 Fridays, 11/9–12/14 (no class 11/23),
10 am–1:40 pm

Jeanne Reiner | NYBG | 192BIL302A


6 Tuesdays, 11/6–12/18 (no class 11/20), 6–9 pm
Laura Vogel | Manhattan | 192BIL302B

6 Wednesdays, 3/6–4/10, 10 am–1 pm
Linda M. Nemergut | NYBG | 193BIL302C

6 Wednesdays, 3/6–4/10, 6–9 pm
Laura Vogel | Manhattan | 193BIL302D

\$435/\$479 *Certificate Requirement*

BOTANICAL DRAWING III: FOCUS ON FLOWERS

Apply your understanding of contours, perspective, and tone to drawing three distinct types of flowers. The object is to accurately draw a fully toned flowering plant. Explore compositional possibilities, textures, and details.  Prerequisite: *Botanical Drawing II*


6 Wednesdays, 9/12–10/31 (no class 9/19 & 10/10),
6–9 pm

Rose Marie James | Manhattan | 191BIL303C

6 Thursdays, 1/10–2/14, 10 am–1 pm
Rose Marie James | NYBG | 193BIL303B

\$435/\$479 *Certificate Requirement*

COLORED PENCIL


Colored pencil line and tone can be applied to look like either drawing or painting, making it a versatile medium for creating botanical artwork. Focusing on color theory and application, you'll learn a variety of techniques, including burnishing, tonal construction, and how to layer colors to achieve different hues and color densities.  Prerequisite: *Botanical Drawing II*

6 Saturdays, 9/15–10/27 (no class 10/6), 10 am–1 pm
Laura Vogel | NYBG | 191BIL415B

6 Thursdays, 2/7–3/14, 6–9 pm
Jeanne Reiner | Manhattan | 193BIL415B

\$435/\$479 *Certificate Requirement*

BOTANICAL WATERCOLOR I

This comprehensive class covers the basic techniques of botanical watercolor. Learn how to use your brushes to make smooth, underlying washes, as well as to create fine detail. Color theory will teach you how paints interact, and how to select the right colors for your subject. Paper selection, transferring preliminary drawings, and more will round out this strong foundation for successful watercolor paintings.  Prerequisite: *Botanical Drawing II*


8 Mondays, 9/17–11/12 (no class 10/8), 6–9 pm
Rose Marie James | Manhattan | 191BIL331B

8 Thursdays, 9/27–11/15, 10:30 am–1:30 pm
Laura Vogel | NYBG | 191BIL331C

8 Mondays, 2/11–4/8 (no class 2/18), 10 am–1 pm
Rose Marie James | NYBG | 193BIL331B

\$569/\$625 *Certificate Requirement*

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. It is recommended that students take *Botanical Watercolor II* immediately following *Botanical Watercolor I*.  Prerequisite: *Botanical Watercolor I*

6 Mondays, 11/26–1/14 (no class 12/24 & 12/31),
6–9 pm

Rose Marie James | Manhattan | 192BIL332

\$435/\$479 *Certificate Elective*



Weekend Watercolor Workshops

Artists of all skill levels will enjoy these one-day workshops dedicated to basic watercolor techniques. In each session, you'll learn to capture the beautiful colors and unique details of a different botanical subject. Plant and photo reference materials will be provided by the instructor. No previous drawing or painting experience is required.

NEW! PLUMS

Sunday, 9/23, 10 am–3:30 pm
Carrie Di Costanzo | NYBG | 191BIL214

APPLES AND PEARS

Sunday, 9/30, 10 am–3:30 pm
Susan Sapanara | NYBG | 191BIL215

NEW! ANEMONES

Saturday, 10/13, 10 am–3:30 pm
Adele Rossetti | Manhattan | 192BIL206

FALL LEAVES

Sunday, 10/21, 10 am–3:30 pm
Laura Vogel | NYBG | 192BIL203A

Sunday, 11/4, 10 am–3:30 pm
Laura Vogel | NYBG | 192BIL203B

Saturday, 11/17, 10 am–3:30 pm
Laura Vogel | Manhattan | 192BIL203C

NEW! FALL MUSHROOMS

Sunday, 10/28, 10 am–3:30 pm
Margaret Saylor | NYBG | 192BIL227

NEW! CROCUS

Saturday, 1/26, 10 am–3:30 pm
Adele Rossetti | Manhattan | 193BIL209

SEED PODS

Sunday, 1/27, 10 am–3:30 pm
Carrie Di Costanzo | NYBG | 193BIL223

MARKET FLOWERS

Sunday, 2/10, 10 am–3:30 pm
Laura Vogel | NYBG | 193BIL225A

Sunday, 2/24, 10 am–3:30 pm
Laura Vogel | NYBG | 193BIL225B

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

PEN AND INK

Pen and ink, among the most versatile and useful media, can be used to create high quality, easily reproducible drawings. Learn how to produce different strokes and how to create tone by using stipple, line, and crosshatch techniques.

Prerequisite: *Botanical Drawing I*

4 Tuesdays, 1/8–1/29, 10:30 am–3:30 pm
Laura Vogel | NYBG | 193BIL400

\$435/\$479 Certificate Requirement



Mullein, watercolor, Anne Ophelia Dowden, LuEsther T. Mertz Library, Art and Illustration Collection.

NEW! A CLASSIC PLATE: THE STORY OF A PLANT

A traditional scientific botanical illustration—sometimes called a plate—tells the story of a plant, and includes details and dissections, in addition to a life-size drawing. Learn how to select the key characteristics to feature, and how to compose a holistic illustration that is beautiful, as well as publication-ready. We'll use live specimens and microscopes to capture intimate botanical details. We'll focus on techniques in graphite, but if you've taken *Watercolor I* or *Pen and Ink*, you're welcome to use those media. Prerequisites: *Plant Morphology* and *Botanical Drawing II*

4 Tuesdays, 1/8–1/29, 10 am–2:30 pm
Robin Jess | NYBG | 193BIL390

\$289/\$319 Certificate Elective

PRACTICAL ASPECTS OF BOTANICAL ART

Whether or not you decide to pursue botanical art as a business, knowing standard practices will be useful. In these two sessions, you will learn the basics of dealing with galleries and artists' reps, including pricing, contracts and sales agreements; how/when to sell certain rights, how to market your work including best options for promotional printing (business cards, exhibition postcards, booklets) 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: *Botanical Watercolor or Colored Pencil*

2 Fridays, 2/15 & 2/22, 11 am–4:30 pm
Carol Woodin | NYBG | 193BIL392

\$245/\$269 Certificate Requirement

INTERNET TOOLS FOR CREATIVES PART I: SOCIAL MEDIA

Learn how to use Facebook, Instagram, Twitter, and Pinterest to showcase your work. Define your goals for using social media as a marketing tool, and create a strategy to achieve those goals. Discover tips for attracting and engaging followers. Basic smartphone fluency is recommended. If possible, please bring a smartphone with the aforementioned apps pre-downloaded.

Saturday, 2/9, 10 am–3:30 pm
Candace Thompson | NYBG | 193BIL394

\$115/\$129 Certificate Requirement

INTERNET TOOLS FOR CREATIVES PART II: WEBSITE

Having a professional online presence is essential to getting the word out about your work. In this hands-on class, you will build a simple website (no coding required!) to showcase your portfolio using Wix.com, a free and easy-to-use platform. We will also showcase free online photo-editing tools. Basic familiarity with internet navigation is expected. Bring a laptop and 10–15 digital images of you, your studio, and your work to use in building your new site.

2 Saturdays, 3/2 & 3/16, 11 am–2:30 pm
Candace Thompson | NYBG | 193BIL395

\$155/\$169 Certificate Requirement

THE BASICS OF VISUAL COMPOSITION

To create a memorable work of art, you must carefully position your subjects on the page. Using a variety of exercises, we'll experiment with a wide range of principles, including balance, focal points, and the rule of thirds, that will help your composition achieve maximum visual impact. Each week, you'll add to your personal composition notebook, which will serve as an invaluable reference in the future. You'll create one final drawing to pull together everything we explored together. This class is best taken early in your Certificate. Prerequisite: *Botanical Drawing II*

4 Saturdays, 2/2, 2/23, 3/9 & 3/23, 10 am–3 pm
Lauretta Jones | NYBG | 193BIL421

\$449/\$495 Certificate Requirement

IN-PROGRESS PORTFOLIO CRITIQUE

As a developing artist, you need personalized, supportive evaluation to improve your techniques. This is your chance to bring your finished art and work-in-progress for respectful, careful feedback via group discussion and teacher-led demos. We'll pay special attention to your ability to convey the intricacy of your subject. 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.

Wednesday, 2/20, 10 am–3:30 pm
Robin Jess | NYBG | 193BIL208

\$119/\$129

NEW! SUNFLOWERS IN GRAPHITE AND WATERCOLOR

Develop the skills you learned in *Watercolor I* by focusing on the bold, beautiful sunflower. Working with live specimens, we'll use graphite to develop an exact tonal drawing that will serve as a base for our painting. Then, we'll experiment with a variety of watercolor washes to achieve depth and brilliant color. **P** Prerequisite: *Botanical Watercolor I*

Thursday–Friday, 10/25 & 10/26, 10 am–3:30 pm
Rose Marie James | NYBG | 192BIL368

\$239/\$265 Certificate Elective

NEW! AMARYLLIS: FROM BULB TO BLOSSOM

Building on basic skills learned in drawing and watercolor, draw and paint the showy Amaryllis from the ground up: roots, bulb, stem, leaves, flower bud, and flowers. We'll focus on accuracy in line and color, as well as light on form. You'll experiment with creating multiple textures as you capture the rough bulb, smooth stalk and leaves, and dramatic lily-like flower with its papery sheath. **P** Prerequisite: *Botanical Watercolor I*

3 Thursdays, 1/17–1/31, 10 am–3:30 pm
Kathie Miranda | Manhattan | 193BIL398

\$359/\$395 Certificate Elective

NEW! BIRDS OF PREY

Fascinated by owls, hawks, eagles, and falcons? Learn their anatomical structure, the form and function of plumage, their habitats, and behavioral habits as you hone your natural science drawing skills. Graphite lends delicacy, depth, and fine detail to drawings, and is well suited for rendering this dramatic avian family. Achieve realistic eyes, complex feather patterns, and textures that range from sharp beaks and talons to soft down. **P** Prerequisite: *Botanical Drawing II*

4 Tuesdays, 2/5–2/26, 10 am–1 pm
Mary Christiansen | NYBG | 193BIL388

\$289/\$319 Certificate Elective

DRAWING CONIFERS

Learn to identify and draw the key characteristics associated with coniferous plants. From needles and bark to seeds and cones, come away with a thorough grounding in the best ways to illustrate the morphological attributes of this beautiful group of plants. We'll spend some time outdoors observing conifers on the Garden grounds. Please dress for the weather.

P Prerequisite: *Botanical Drawing I*

2 Sundays, 3/3 & 3/10, 10 am–3:30 pm
Dick Rauh | NYBG | 193BIL404

\$359/\$395 Certificate Elective

NEW! COMPOSING A PLANT'S HABITAT

Add intricacy and excitement to your work by drawing a plant in its natural habitat. Using only graphite, you'll work step-by-step to build up values to illustrate "ground litter" such as leaves, twigs, nuts, and pods around a small, focal plant. You'll also develop elements of composition so your finished work looks both natural and dynamic. **P** Prerequisite: *Botanical Drawing II*

3 Thursdays, 3/14–3/28, 10 am–3:30 pm
Betsy Rogers-Knox | NYBG | 193BIL348

\$359/\$395 Certificate Elective

Visiting Artists

Join us for special workshops with Katie Lee, John Pastoriza-Piñol, and Elaine Searle

NEW! CREATE AN ACCORDION BOOK

Award-winning botanical and wildlife artist Katie Lee will guide you step by step as you create an accordion book that tells the life cycle of a species. From seed to seed for a plant, or from egg to maturity for a bird, the story will be revealed with each fold. You'll discuss how best to sequence your drawings, then prepare the paper and covers, transfer and color your drawings, and sew in your page inserts. You'll walk away with your very own book! **P** Prerequisite: *Botanical Drawing II*

Monday–Wednesday, 9/24–9/26, 10 am–4:30 pm
Katie Lee | NYBG | 191BIL615

\$395/\$435 Certificate Elective



Accordion Book (detail), ©Katie Lee

NEW! GLOWING WATERCOLOR WASHES

Internationally acclaimed Australian watercolor master John Pastoriza-Piñol will teach you how to use masking fluid and washes to create deep, glowing effects that enhance the drama and power of your paintings. Delivered with his great sense of humor, his clear demonstrations will help you increase your watercolor proficiency and eliminate your fear of multiple washes. **P** Prerequisite: *Botanical Watercolor I*

Thursday–Saturday, 11/1–11/3, 10 am–4 pm
John Pastoriza-Piñol | Manhattan | 192BIL428

\$395/\$435 Certificate Elective



Peonia suffruticosa (detail), ©John Pastoriza-Piñol

NEW! CONTEMPORARY COMPOSITION

U.K. botanical artist Elaine Searle is renowned for making ordinary botanical subjects look extraordinary. Part of her secret lies in creating strong compositions. In this special workshop, she'll encourage you to push the boundaries of your art. Working with a series of specimens, you'll explore depth, scale, cropping, texture, and color to compose small works full of intrigue, drama, and wall appeal. **P** Prerequisite: *Botanical Drawing II*

Wednesday–Friday, 2/27–3/1, 10 am–1 pm
Elaine Searle | NYBG | 193BIL420

\$395/\$435 Certificate Elective



Helleborus orientalis (detail), ©Elaine Searle

BOTANY



Do you have a desire to get closer to nature? Take a botany class and gain a deeper understanding of how plants connect us to the natural world. Botanical studies explore all aspects of plant growth and development, plant communities, and the role of plants in ecosystems. At the everyday level, botany can be your gateway to herbal healing, foraging for wild edibles, cross-cultural understanding, or just a deeper appreciation of nature's seasonal beauty.

THE CERTIFICATE PROGRAM

The NYBG Botany Certificate Program is designed to deepen a student's scientific understanding of the plant kingdom. Engage in subjects such as native flora, ethnobotany, ecology, and botanical nomenclature. Courses 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 collection of more than 550,000 volumes, nearly 12,000 serial titles, and over 11 million archival documents.

During the course of the program, students will come to know plants: how they function, grow, develop, and reproduce; and learn to identify a wide array of plants by stems, leaves, flowers, and fruits.

CERTIFICATE REQUIREMENTS

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

ELECTIVES

COURSE	CODE	HOURS*	PAGE
Systematic Botany	BOT 432 P	21	15
Paleobotany	BOT 434	12	15
Botanical Latin	GAR 360	10	14
Autumn Mushrooms	BOT 368	6	14
Ferntastic!	BOT 312	4	14
Pressing Plants For Art & Science	BOT 338	12	14
Biomimicry: Innovation by Nature	BOT 347	3	14
The Science of Tree Communication	BOT 385	6	15
Frankincense and Myrrh	BOT 345	3	14
The Hidden World of Lichens	BOT 313	3	14
Exploring Vanuatu: Plants, People, and Traditional Culture	BOT 314	3	14
Nature's Pharmacy	BOT 346	4	15
Plant Form & Function: A Walk With Susan Pell	BOT 372	3	15

*Course hours do not include exam hours

**Courses offered in the Spring–Summer Catalog

P Courses with a prerequisite before you can register



The Program Coordinator, Jamie Boyer, Ph.D., Stavros Niarchos Foundation Vice President for Children's Education, teaches Adult Education courses in plant structure and diversity, and paleobotany. At The New York Botanical Garden, he is responsible for overseeing all aspects of the Garden's youth, teacher, and family education programs. He holds a Ph.D. in Plant Biology from the State University of New York Binghamton, where he studied the evolution and development of ancient land plants.

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

“NYBG’s Botany Program taught me the history and science of plants, as well as the larger significance of the botanical world. As an architect turned floral designer and plant enthusiast, I now have a greater scientific understanding that allows me to push my company and artistic practice in new directions.”

—ELENA SEEGER, 2018 Graduate
Owner, Le Fleuriste

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.

5 Wednesdays, 9/26–10/24, 10:30 am–12:30 pm
Jennifer Bakshi | NYBG | 191GAR360A

5 Mondays, 3/11–4/8, 6:15–8:15 pm
Jennifer Bakshi | Manhattan | 193GAR360B

\$255/\$279 *Certificate Elective*

NEW! AUTUMN MUSHROOMS

Here in NYC, fall is the best time to hunt for edible fungi, including honey, oyster, and hen-of-the-woods mushrooms. Paul Sadowski, 25-year veteran of the New York Mycological Society, will show you how to identify many species and their look-alikes, where to find them, and how to cook or preserve them. We'll embark on mushroom hunts together on Garden grounds, as well as in NYC Parks as the season permits.

2 Thursdays, 10/4 & 10/11, 10 am–1 pm
Paul Sadowski | Manhattan | 192BOT368A

2 Wednesdays, 10/17 & 10/24, 10 am–1 pm
Paul Sadowski | NYBG | 192BOT368B

\$150/\$159 *Certificate Elective*

NEW! WHAT'S THIS TREE ON MY BLOCK

Did you know there are over 200 tree species growing on the streets of Manhattan? Learn to distinguish among the five most common genera and pinpoint particular species in this quick intro to tree identification. If you have mystery trees in your neighborhood, bring photos and we'll identify them together. We'll spend some time outdoors too, so dress for the weather.

Saturday, 10/13, 2–4 pm
James Kaechle | Manhattan | 192BOT223A

Saturday, 2/23, 2–4 pm
James Kaechle | Manhattan | 193BOT223B

\$59/\$65

PRESSING PLANTS FOR ART & SCIENCE

From the field to the folder, this course covers the essentials of making museum-quality preserved plant specimens suitable for research, education, and decoration. Learn techniques and skills for collecting and preserving plants of your interest, wild or cultivated. Build your own herbarium, useful as a permanent record and study-aid for other Botany and Horticulture courses—or for artistic appreciation.

4 Wednesdays, 1/9–1/30, 5–8 pm
Daniel Atha and Sheranza Alli | NYBG | 193BOT338

\$365/\$395 *Certificate Elective*

**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.

FERNTASTIC!

In habitats from the tropics to the poles, the world's 14,000 ferns, horsetails, quillworts, and clubmosses are dynamic and remarkable. Robbin Moran, Nathaniel Lord Britton Curator of Botany, is your guide to this unique family of plants. Take a microscopic look at spores being catapulted from their cases, and learn to identify species of common ferns on Garden grounds. Dress for the weather.

Friday, 9/28, 9 am–1 pm | Robbin Moran, Ph.D. | NYBG | 191BOT312

FRANKINCENSE AND MYRRH

For centuries, traditional peoples across the Middle East, the Mediterranean, and the tropics have used resins from plants from the *Burseraceae* family—for illumination, rituals, fragrance, medicine, and even stimulating camel milk production. Doug Daly, NYBG B. A. Krukoff Curator of Amazonian Botany, presents the colorful history of these remarkable plants. Examine a variety of products from far-off lands, discover how to really "burn" incense, and take home seeds to grow for the holidays.

Wednesday, 12/12, 10 am–1 pm | Doug Daly, Ph.D. | NYBG | 192BOT345

NEW! EXPLORING VANUATU: PLANTS, PEOPLE, AND TRADITIONAL CULTURE

For over a decade, NYBG scientists Gregory Plunkett and Michael Balick have worked with local communities—sometimes in remote island areas never before visited by botanists—to document nearly extinct languages as well as the plants used for food, medicine, housing, and even communication. Plunkett and Balick will share insights from their project, including the role kava, *Piper methysticum*, plays in Pacific Island culture. They'll prepare a traditional kava drink, one that promotes relaxation, storytelling, and conflict resolution, so students can experience its effects.

Tuesday, 2/26, 10 am–1 pm | Michael Balick, Ph.D. and Gregory Plunkett, Ph.D. | NYBG | 193BOT314

THE HIDDEN WORLD OF LICHENS

Lichens are among Earth's most amazing and oldest living things, and display incredibly beautiful colors and shapes. They grow on bark, rock, and barren soil, and 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.

Thursday, 2/21, 6–9 pm | James Lendemer, Ph.D. | Manhattan | 193BOT313

Each section: \$75/\$85 *Certificate Elective*

BASIC PLANT ID

Are you a plant-lover eager to up your game and start identifying one species from another? Then this is the class for you! Using commonly known plants, you'll learn the terminology used to describe their growing habits and structures. This vocabulary will help you recognize and describe key differences in plant forms, from roots to fruits. We'll also cover basic botanical nomenclature.

2 Tuesdays, 10/2 & 10/9, 5–8 pm
Katie Bronson | NYBG | 192BOT308

\$145/\$159

NEW! BIOMIMICRY: INNOVATION BY NATURE

What can a simple leaf teach us about the most efficient way to make a solar cell or a water distribution system? These are questions biomimicry seeks to answer. Explore how engineers and policymakers are creating solutions to human challenges by looking to nature for inspiration. We'll discuss the most exciting ways in which nature is driving change in design, production, politics, and business. We'll go outside in the NYBG section, so dress for the weather.

Tuesday, 10/30, 11–2 pm
Lisa Dokken | Manhattan | 192BOT347A

Tuesday, 11/6, 11–2 pm
Lisa Dokken | NYBG | 192BOT347B

\$75/\$85 *Certificate Elective*

BOTANICAL EXPLORERS

The amazing explorations of the Age of Discovery led to a wealth of previously unknown plants—all of which needed to be accurately named and described for scientific purposes. Follow the Perry Expedition to Japan and Lewis and Clark's trek across the western U.S., and learn about the discovery of many ornamental plants and whom they honor with their names.

3 Thursdays, 11/1–11/15, 6:15–8:15 pm
Jennifer Bakshi | Manhattan | 192GAR366

\$145/\$159

THE SCIENCE OF TREE COMMUNICATION

Trees may appear to be strong and silent, but they can “talk”—to one another, to other plants, and to animals and insects. Discover how trees communicate via chemical signals in the air (to warn each other of insect attacks), as well as through complex fungal networks underground to transfer nutrients and resources to one another (sometimes to assist sick trees).

2 Tuesdays, 12/4 & 12/11, 6–9 pm
Steve Kutos | Manhattan | 192BOT385

\$125/\$139 *Certificate Elective*

NATURE'S PHARMACY


For centuries herbs and spices have been prized not just for their flavors, but as state-of-the-art medicine. Learn about a variety of plants historically used for first aid, to revitalize the immune system, and to treat and prevent asthma, insomnia, sinusitis, bronchitis, colds and flu, and much more. Join us—you'll be a much smarter shopper on your next visit to the health-food store! Please bring lunch.

Saturday, 1/26, 11 am–3:30 pm
Karine Gordineer | Manhattan | 193BOT346A

Sunday, 3/3, 10 am–2:30 pm
Andrea Candee | NYBG | 193BOT346B

\$115/\$125 *Certificate Elective*

SYSTEMATIC BOTANY

Survey the major families of the angiosperms (flowering plants) and learn the characteristics and principles used to classify them. This course covers newly recognized higher order groupings of species, evolutionary trends in reproductive and vegetative structures, and recently reconstructed evolutionary histories (phylogenies) of plants.  Prerequisite: *Plant Diversity*

8 Tuesdays, 9/4–10/30, (no class 10/23),
12:30–3:30 pm
Carlos Rodrigues | NYBG | 191BOT432S

\$495/\$545 *Certificate Elective*

PALEOBOTANY

Paleobotany, the study of plant evolution through fossil evidence, gives us insights into Earth's past and present flora. Gain a clearer perception about historical patterns of global diversity and climate change. Lectures and slides trace the rise and rapid evolution of the first land plants through the origin of present day trees and flowering plants.

4 Sundays, 9/16–10/14 (no class 10/7), 1–4 pm
Jamie Boyer, Ph.D. | NYBG | 191BOT434

\$295/\$325 *Certificate Elective*

PLANT STRUCTURE

Get a solid grounding in the basic plant body, from the cell to the roots, stems, leaves, flowers, and fruits. After an overview of microscope use and fundamental science in the first session, you'll use both dissecting and compound light microscopes to observe plant anatomy. Moving on, we'll introduce the base-level chemistry required for understanding the world of plants.

9 Mondays, 9/24–11/26, (no class 10/8),
10 am–1 pm

Steve Kutos | NYBG | 191BOT315P

9 Mondays, 1/28–4/1, (no class 2/18), 5–8 pm
Jamie Boyer, Ph.D. | NYBG | 193BOT315S

9 Thursdays, 3/14–5/9, 5–8 pm
Nicole Fusco | NYBG | 193BOT315B

\$559/\$615 *Certificate Requirement*


NATIVE FLORA IN AUTUMN

Autumn is one of the most spectacular times to learn more about the native flora of the Northeast. Goldenrods and asters take center stage at this time of year, but can be difficult to identify. Equipped with a 10X power hand lens, you'll learn to use a plant key to help you identify these plants on the Garden grounds, as well as other wildflowers, shrubs, and trees.

4 Thursdays, 9/27–10/18, 10 am–1 pm
Nancy Slowik | NYBG | 191BOT331

\$295/\$325 *Certificate Requirement*

PLANT DIVERSITY


Explore the myriad structures and life cycles of the vast diversity of plants, algae, fungi, and bacteria. Delve into the evolutionary reasons behind how and why scientists have divided and classified these organisms. We will also discuss biomes and ecological concepts.  Prerequisite: *Plant Structure*

9 Mondays, 10/15–12/10, 6:15–9:15 pm
Jamie Boyer, Ph.D. | NYBG | 192BOT317A

9 Tuesdays, 1/22–3/19, 6:15–9:15 pm
Elle Barnes | NYBG | 193BOT317B

\$559/\$615 *Certificate Requirement*

PLANT PHYSIOLOGY

The role of plant hormones in growth and development is discussed as well as plant movement, water transport through the plant body, and plant metabolism, including photosynthesis and respiration (anaerobic and aerobic). We will cover the basic chemistry needed to understand plant physiology.  Prerequisite: *Plant Structure*

8 Wednesdays, 11/28–2/6, (no class 12/5, 12/19 & 12/26), 5:30–8:30 pm
Regina Alvarez, Ph.D. | NYBG | 192BOT316S

8 Thursdays, 1/10–2/28, 5:30–8:30 pm
Regina Alvarez, Ph.D. | NYBG | 193BOT316A

\$559/\$615 *Certificate Requirement*

NATIVE FLORA IN WINTER

Learn to recognize the characteristics of native and common woody plants in the winter. While in their dormant, leafless state, trees and shrubs can be identified by bud types, leaf scars, fruit remnants, and other distinguishing marks. Specimens examined in class are supplemented by forays around the Garden. Dress for the weather.

4 Fridays, 1/11–2/1, 10 am–1 pm
Nancy Slowik | NYBG | 193BOT332

\$295/\$325 *Certificate Requirement*

GUEST EXPERT**NEW! PLANT FORM & FUNCTION:
A WALK WITH SUSAN PELL**

A plant's morphology, or physical form, influences how it reproduces, feeds, attracts pollinators, and fends off herbivores. Former NYBG Botany Program Coordinator Susan Pell returns from the U.S. Botanic Garden in D.C. to guide you through the Garden grounds where you'll learn to identify particularly unusual plant structures and their functions.

Saturday, 10/27, 11 am–2 pm
Susan Pell, Ph.D. | NYBG | 192BOT372

\$75/\$85 *Certificate Elective*



Photo © Lisa Whitmer

 Exam on last class date.

REGISTER ONLINE AT NYBG.ORG/ADULTED OR CALL 800.322.NYBG (6924)

CRAFTS & DIY

*The holidays offer fresh inspiration to get crafty with plants!
We make it easy—all materials are included!*



NEW! NATURAL DYES: AVOCADO SEEDS AND ONION SKINS

Before the discovery of synthetic dyes in 1856, plants and other natural materials were used by cultures around the world to color fiber. Use avocado seeds to create pink hues and experiment with the range of orange to brown tones onion skins make. You'll see your food scraps in a whole new light! Each participant will receive three silk scarves to dye during the workshop.

Saturday, 10/13, 11 am–2 pm
Maria Elena Pombo | NYBG | 192CRF246A

Saturday, 10/27, 11 am–2 pm
Maria Elena Pombo | Manhattan | 192CRF246B

\$135/\$149

HYPER-TUFA PLANTER

Making a hyper-tufa planter is like making mud pies: messy and fun! Use peat moss, perlite, cement, and water to create a lightweight container that mimics the look of an old stone English watering trough. Hyper-tufa planters are the perfect vessels for highlighting small plants, including herbs and cacti. Nick Gershberg shares his secrets about the best materials to use and the most innovative planting ideas. Bring home your own DIY planter.

Sunday, 10/14, 10 am–1 pm
Nick Gershberg | NYBG | 192CRF148A

Saturday, 2/3, 12–3 pm
Nick Gershberg | NYBG | 193CRF148B

\$95/\$105

NEW! BEESWAX CANDLES

The soft light and honey-like aroma from beeswax container candles create a warm, romantic atmosphere. In this hands-on workshop, you'll learn the basic science and history of candle-making, while creating a container candle to take home.

Saturday, 12/1, 11 am–2 pm
Amy Anthony | Manhattan | 192CRF180A

Sunday, 1/27, 11 am–2 pm
Amy Anthony | NYBG | 193CRF180B

\$65/\$69

NEW! LIVING DÉCOR: LAYERED SAND & SUCCULENT TERRARIUM

A delightful oasis garden tucked into a glass vessel will cheer you in all seasons. Author of *Terrariums: Gardens Under Glass* Maria Colletti will show you how to create your own mini-ecosystem with layers of different colored sand and a combination of plump succulents, thick moss, and smooth stones.

Wednesday, 11/7, 6:30–8:30 pm
Maria Colletti | Manhattan | 192CRF256A

Wednesday, 2/6, 6:30–8:30 pm
Maria Colletti | NYBG | 193CRF256B

\$115/\$125



Use avocados and onions to dye silk scarves.



Brighten your home with handmade illuminated papercuttings.



Tool a design on the cover of a leather journal.

NEW! WOODLAND WREATH

Take inspiration from the woods as you create a rich, textural wreath for your home. Using a grapevine wreath as a base, you'll add a variety of preserved botanical materials, including seed pods, mosses, flowers, fruits, and pine cones.

Saturday, 12/1, 11 am–2 pm
Madeline Yanni | NYBG | 192CRF173

\$125/\$139

NEW! ILLUMINATED PAPER CUTTING

Brighten the winter nights with a beautiful cut paper lantern. You'll learn basic positive space papercutting techniques with a scissor and craft knife, and use botanical and photo references to create your own ready to frame plant silhouettes. Then, we'll explore the basics of negative space papercutting and watch our designs come to life in light. Tools and materials provided.

Sunday, 12/2, 10 am–2 pm
Jenny Lee Fowler | NYBG | 192CRF132

\$95/\$105

CREATE A BOTANICAL BUILDING

Create a building replica with natural materials in the style of the *Holiday Train Show!*[®] Explore architectural styles, and then choose from an assortment of dried botanicals such as pods, bark, and branches to make your own detailed 1-foot tall model. Includes a brief tour of the *Holiday Train Show* to inspire you! Please bring lunch and a box to carry home your creation.

Saturday, 12/8, 9:30 am–4 pm
Madeline Yanni | NYBG | 192CRF142

\$175/\$195

BLOCK PRINTED SEASONAL CARDS AND GIFT WRAP

Make your gifts stand-out this season by creating unique gift wrap and seasonal cards with hand-printed plant patterns. You'll design and carve a simple botanical shape into a small rubber-printing block. Then, you'll use this to stamp a whimsical pattern with a variety of inks on recycled paper. This is one gift wrap that won't be thrown out!

Thursday, 12/6, 6–9 pm
Joy Langer | Manhattan | 192CRF249A

Sunday, 12/9, 11 am–2 pm
Joy Langer | NYBG | 192CRF249B

\$139/\$155

TABLETOP HOLIDAY TOPIARY

Create a 2-foot tall, round topiary using fresh-cut greens, including boxwood, variegated fan arborvitae, cedar, and juniper with blue berries. Decorate with an assortment of hand-colored dried botanicals—hydrangea, herbs, pods, roses, nuts, and more—to suit your personal style. Your topiary will stay fresh throughout the holiday in a terra-cotta pot. Bring a box to transport your creation home.

Saturday, 12/15, 1:30–4 pm
Diana Conklin | NYBG | 192CRF158

\$115/\$125

GIRLS' NIGHT OUT: SEASONAL CENTERPIECE

Gather your friends, sisters, or mom for a night of fun at our Midtown Center. Get creative as you put together your own professional-looking floral arrangement while enjoying hors d'oeuvres, music, and the company of other women. One part class, one part party, Girls' Night Out is a wonderful way to unwind while learning something new.

Thursday, 12/13, 6:30–8:30 pm
Bridget Vizoso | Manhattan | 192CRF115A

Thursday, 2/7, 6:30–8:30 pm
Bridget Vizoso | Manhattan | 193CRF115B

\$129/\$139

NEW! MOSAIC CONTAINERS

Mosaics with plant-based motifs have graced gardens, palaces, and places of worship for centuries. A true mosaics master with over 40 years of experience, Angele Hanansen of Unicorn Art Studio will show you how to use colored tiles to transform a small garden pot into a beautiful accent piece for your home. She'll walk you through the steps of designing a simple mosaic pattern, planning out your project, and preparing the tiles before affixing them to create your own colorful container. All levels welcome.

Saturday, 11/10, 11 am–3 pm
Angele Hanansen | NYBG | 192CRF182A

Saturday, 1/12, 11am–3 pm
Angele Hanansen | Manhattan | 193CRF182B

\$135/\$149

NEW! DIY PLANT HANGERS

Start your own hanging garden and learn some basic leatherworking in this fun workshop! First, you'll blend and layer watercolor stains on vegetable-tanned leather strips. Then, you'll assemble these strips with basic tools and rivets to create a beautiful hanger for your favorite plant. Wear clothes you don't mind getting dye on.

Saturday, 2/9, 12–2:30 pm
Jennifer Laursen | Manhattan | 193CRF178

\$95/\$105

NEW! LEATHERWORK 101: BOTANICAL JOURNALS

Learn basic leatherworking skills as you create a keepsake journal covered with beautiful, botanical designs. We'll show you how to trace and cut a pattern, how to punch holes for hand stitching, and how to apply finishing hardware. You can use the finished product for anything, even a field notebook or a sketchbook! We provide all materials, including a Moleskine journal.

Sunday, 2/10, 11 am–1:30 pm
Jennifer Laursen | NYBG | 193CRF124

\$125/\$139

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. With hands-on practice and with personal attention from NYBG's rigorous yet nurturing instructors, you'll develop the mastery and confidence to express yourself through flowers. So come take a class with us at the Garden or our Midtown Education Center! Choose an individual course for fun, or pursue a Certificate in Floral Design.

THE CERTIFICATE PROGRAM

The NYBG Certificate Program helps you develop your own aesthetic and master the mechanics for everything from simple bouquets to grand-scale arrangements, while giving you a practical, real-world, business foundation.

During the course of the program, students will:

- Create more than 40 original floral designs for all occasions, including weddings, parties, and holidays.
- Gain a solid grounding in color theory and an understanding of historical and contemporary floral styles.
- Develop skills needed to build or sustain a thriving floral business: retail ordering, cost analysis, scheduling, project management, marketing, client relationships, and managing personnel.

STUDENT INFORMATION

FOR ALL STUDENTS

- Register early! Instructors order flowers in advance, so you must register at least five business days before the start of class.



- Students are required to bring their own florist knife and clippers to class. To purchase a tool kit, including knife, wire cutter, scissors, and pruners, email adulted@nybg.org or call 718.817.8747.
- Please bring lunch to classes meeting all day.
- Please bring a box or bag in which to take arrangements home.

FOR CERTIFICATE STUDENTS

Certificate Requirements

Certificate students must complete 152 total course hours (120 required + 32 elective), plus an 80-hour internship. Students are also required to submit a portfolio showcasing photos of class assignments and their own unique creations.

Certification Deadline

Students who expect to graduate in June 2019, must inform the Registration Office in writing of their candidacy by February 22, 2019. Students will be contacted by April 15 to confirm that all their course requirements have been met. If you are not contacted, please call the Registration Office at 718.817.8747. The Floral Design Notebook & Portfolio must be submitted to the Registration Office no later than May 6, 2019.



The Program Coordinator, Tom Cawley, is a certified Master Designer with four decades of diverse experience in retail and high-end event production. He has created lush, large-scale projects for royalty, political figures, and society clients in France, Monte Carlo, Saudi Arabia, the U.K., and the U.S.; and for the past ten years, he has been an inspirational instructor here at NYBG.

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



GET NYBG CERTIFIED

Founded in 1977, 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. Along with comprehensive hands-on instruction from industry pros, you'll develop the contacts and business savvy you need to advance your career or manage your own business.

The NYBG Floral Design Certificate Program will be licensed by the NY State Department of Education in 2019.

CERTIFICATE REQUIREMENTS

COURSE	CODE	HOURS	PAGE
Fundamentals of Form	FDN 300	16	22
Fundamentals of Style	FDN 302 P	16	22
Wedding Design I: Personals	FDN 304 P	16	22
Color Theory for Floral Design	FDN 306	8	23
Flower ID from A to Z	FDN 308	8	23
Interior Plantscapes	FDN 310	8	23
Shopping the New York Flower Market	FDN 400	4	23
Modern Sympathy Design	FDN 382 P	6	23
Wedding Design II: Ceremony & Reception	FDN 305 P	16	22
Grand-Scale Arrangements	FDN 502 P	8	23
Event Planning for the Floral Designer	FDN 504 P	12	23
<i>Elective courses</i>		24	
TOTAL REQUIRED HOURS		142	

ELECTIVES

COURSE	CODE	HOURS	PAGE
Hydrangea Happenings	FDN 331	3	21
Woodland Centerpiece with Succulents	FDN 373 P	4	20
Ceremonial Installations	FDN 380	5	21
Cascading Bouquet	FDN 371	3	21
Floral Design Showcase with Putnam & Putnam	FDN 421	1.5	20
Photo Styling: Building Your Brand on Social Media	FDN 369	6	21
Ikebana: A Comprehensive Approach	FDN 325	9	21
Holiday Greens Workshop	FDN 335	6	22
Winter Sculptural Arrangements	FDN 361	3	22
Magnolia Leaf Wreath	FDN 355	4	22
Della Robbia Wreath	FDN 337	4	22
Compote Arrangement	FDN 349	6	21
Floral Techniques: Folding, Rolling & Weaving	FDN 411	6	21
Farm Fresh Flowers with Petal by Petal	FDN 422	3	21

P Courses with a prerequisite before you can register

The Floral Design Certificate Program is an accredited Education Partner of the American Institute of Floral Designers (AIFD). See p. 59 for details.



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 European-style displays in your grocery store, learn how to design and create your own elegant arrangements. \$45 materials fee.

Monday, 9/17, 6–8 pm
Rose G. Edinger | Manhattan | 191FDN210A

Tuesday, 10/23, 11 am–1 pm
Rose G. Edinger | NYBG | 192FDN210B

Thursday, 10/25, 11 am–1 pm
Bridget Vizoso | Manhattan | 192FDN210C

Tuesday, 11/6, 6–8 pm
Bridget Vizoso | Manhattan | 192FDN210D

Thursday, 11/29, 11 am–1 pm
Rose G. Edinger | NYBG | 192FDN210E

Tuesday, 2/19, 11 am–1 pm
Rose G. Edinger | Manhattan | 193FDN210G

Thursday, 3/21, 6–8 pm
Rose G. Edinger | Manhattan | 193FDN210H

\$49/\$55

SIMPLE AND SLEEK FLORAL DESIGN IDEAS

Fifteen minutes is all it takes for a stylish arrangement that will transform your table! Working with a variety of seasonal flowers, you'll learn how to execute simple yet impactful designs that are versatile, sophisticated, and eco-friendly. Take home one finished arrangement—and plenty of easy design ideas. \$45 materials fee.

Wednesday, 10/17, 11 am–1 pm
Rose G. Edinger | NYBG | 192FDN203A

Wednesday, 11/28, 6–8 pm
Bridget Vizoso | Manhattan | 192FDN203B

Tuesday, 1/22, 6–8 pm
Rose G. Edinger | Manhattan | 193FDN203C

Tuesday, 3/26, 11 am–1 pm
Bridget Vizoso | NYBG | 193FDN203D

\$49/\$55

NEW! WOODLAND CENTERPIECE WITH SUCCULENTS

Create a textured, forest-inspired centerpiece with bark, seedpods, moss, berries, succulents, and dahlias and trick dianthus. You'll practice techniques for combining flowers and plant material to create a magical work of floral art. \$100 materials fee.

Tuesday, 9/25, 10 am–2 pm
Deryck de Matas | NYBG | 191FDN373

\$115/\$125 *Certificate Elective*



NEW! CEREMONIAL INSTALLATIONS

Site-specific installations create a magical sense of place for any ceremony, be it rustic or formal. A specialist in large-scale environments, Lilli Wright of Mimosa Floral Design teaches you how to create large, asymmetrical backdrops with a loose, organic feel. Working in a small team, you'll sketch a preliminary design, select your color palette and plant material, and execute the installation you envision. Each team will have one 8'x8' structure—either circular or rectangular—as a base for the locally sourced, seasonal branches and blooms you'll use to make one glorious display. \$125 materials fee.

P Prerequisite: *Fundamentals of Form*

Tuesday, 12/11, 10 am–3:30 pm
Lilli Wright | NYBG | 192FDN380

\$179/\$195 *Certificate Elective*

HYDRANGEA HAPPENINGS

Impressively large, durable, and easy-to-handle, hydrangeas lend themselves to drying with a natural look. Learn when and how to prune them to keep their color, and then create a gorgeous wreath to last throughout the season. \$65 materials fee.

Wednesday, 10/10, 10:30 am–1:30 pm
Rose G. Edinger | Manhattan | 192FDN331A

Tuesday, 10/16, 10:30 am–1:30 pm
Rose G. Edinger | NYBG | 192FDN331B

\$95/\$105 *Certificate Elective*

CASCADING BOUQUET

A fully wired bridal bouquet is the pinnacle of sophistication and luxury. Instagram phenom and armature expert Joshua Werber, known for his playful headpieces, will show you a variety of techniques to wire the most beautiful seasonal blooms into a romantic, cascading bouquet. \$85 materials fee.

Monday, 10/22, 6–9 pm
Joshua Werber | Manhattan | 192FDN371A

Thursday, 1/24, 11–2 pm
Joshua Werber | NYBG | 193FDN371B

\$95/\$105 *Certificate Elective*

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. \$180 materials fee. Please bring wire cutters to class.

3 Thursdays, 11/1–11/15, 11 am–2 pm
Junko Miura | Manhattan | 192FDN325

\$235/\$279 *Certificate Elective*

PHOTOSTYLING: BUILDING YOUR BRAND ON SOCIAL MEDIA

Garnering thousands of likes on Instagram generates buzz around your business. But do you know what and when to post? Learn to design a simple arrangement, then consciously frame and edit photos you take from your phone. In the first class, we'll focus on how to create a social media identity, choose hashtags to drive followers, and use third party apps to stylize your photos and schedule your posts. In the 2nd class, we'll create an arrangement to practice styling and shooting. \$70 materials fee.

2 Thursdays, 1/10 & 1/17, 10 am–1 pm
Bridget Vizoso | NYBG | 193FDN369A

2 Wednesdays, 3/13 & 3/20, 10:30 am–1:30 pm
Bridget Vizoso | Manhattan | 193FDN369B

\$179/\$195 *Certificate Elective*

COMPOTE ARRANGEMENT

Learn the techniques and secrets for creating chic, vintage-inspired arrangements in a trendy footed container. Walk through the step-by-step process of crafting a lush, romantic centerpiece. \$85 materials fee.

Wednesday, 1/23, 10:30 am–3 pm
Bridget Vizoso | NYBG | 193FDN349A

Monday, 2/25, 10:30 am–3 pm
Nsombi Woodson | Manhattan | 193FDN349B

\$125/\$139 *Certificate Elective*

FLORAL TECHNIQUES: FOLDING, ROLLING, & WEAVING

Reshape foliage into unique, playful shapes by weaving, plaiting, rolling, or knotting it. Add *Aspidistra* leaves, palm fronds, hala, and other plants to bold, tropical flowers to create two dramatic contemporary arrangements. \$70 materials fee.

Wednesday, 2/6, 10 am–3:30 pm
Rose G. Edinger | NYBG | 193FDN411

\$135/\$149 *Certificate Elective*



Floral Design Showcase

Putnam & Putnam

Friday, 10/26, 10–11:30 am
Ross Hall, NYBG

The meteoric rise of Darroch and Michael Putnam—who taught in our *Cutting Edge Series* in 2016—continues unabated. Their densely layered, opulent arrangements were recently featured in a 14-page spread in *Vogue*; they count Cartier, Dior, and Jason Wu among their many A-list clients; they travel the world to teach. We welcome them back to NYBG on the occasion of their new book, *Flower Color Guide*—a lavishly illustrated reference book, certain to become a go-to for seasoned designers as well as beginners worldwide. Come hear them talk about their vision and process, and watch them demonstrate how they use color as the guiding principle to create a masterful Putnam & Putnam design. Audience Q&A and booksigning to follow.

\$25/\$29 | 192FDN421 *Certificate Elective*



Holiday Workshops

HOLIDAY GREENS WORKSHOP

The holidays come to life with fragrant, long lasting decorations for your door, table and mantel. Explore working with fresh pine, fir, standing order of vase arrangements created for cedar, boxwood, juniper and arborvitae. Cones and berries will add seasonal flair. Personalize your projects with accents of ribbons and millimeter balls. \$80 materials fee.

Friday, 11/30, 10 am–3:30 pm
Ken Norman, AIFD | NYBG | 192FDN335A

Saturday, 12/1, 10:30 am–4 pm
Ken Norman, AIFD | Manhattan | 192FDN335B

\$135/\$149 *Certificate Elective*

WINTER SCULPTURAL ARRANGEMENTS

Grand vases filled with holly and magnolia add warmth and cheer throughout the winter. Accent these greens with amaryllis and other winter blooms. These flowers can be replaced or augmented for specific holiday events, keeping your arrangement looking fresh throughout the whole season. \$150 materials fee.

Friday, 12/7, 10 am–1 pm
Nancy White | NYBG | 192FDN361

\$115/\$125 *Certificate Elective*

MAGNOLIA LEAF WREATH

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

Wednesday, 12/5, 10 am–2:30 pm
Thomas Cawley | NYBG | 192FDN355

\$115/\$125 *Certificate Elective*

DELLA ROBBIA WREATH

Craft a holiday wreath that puts fruits front and center in the classic design inspired by the terra cottas of the Italian Renaissance. The Della Robbia style combines fresh (and faux) fruits, nuts, and berries with greens, pods, and other materials for a warm and festive natural effect. Your wreath can be used indoors or outside, and will last the whole season. \$65 materials fee.

Wednesday, 12/12, 10 am–2:30 pm
Thomas Cawley | NYBG | 192FDN337

\$115/\$125 *Certificate Elective*



CERTIFICATE CLASSES

FUNDAMENTALS OF FORM

Learn the keys to successful floral design and master the mechanics needed to create round, triangular, parallel, and crescent arrangements. Experiment with shape, line, and symmetry while composing beautiful, balanced creations. \$245 materials fee.

4 Sundays, 9/9–9/30, 11 am–3:30 pm
Nsombi Woodson | NYBG | 191FDN300E

4 Wednesdays, 9/12–10/10 (no class 9/19),
10:30 am–3 pm
Thomas Cawley | NYBG | 191FDN300F

6 Tuesdays, 9/25–10/30, 6:15–8:55 pm
Jameel Gilbert | Manhattan | 191FDN300G

4 Tuesdays, 11/6–12/4 (no class 11/20),
10:30 am–3 pm
Rose G. Edinger | NYBG | 192FDN300A

4 Tuesdays, 1/8–1/29, 10 am–2:30 pm
Thomas Cawley | NYBG | 193FDN300B

Monday–Thursday, 1/28–1/31, 10:30 am–3 pm
Jameel Gilbert | Manhattan | 193FDN300C

\$395/\$435 *Certificate Requirement*

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. \$245 materials fee.

P Prerequisite: *Fundamentals of Form*

4 Sundays, 10/14–11/4, 10:30 am–3 pm
Nsombi Woodson | NYBG | 192FDN302A

4 Wednesdays, 10/24–11/14, 10:30 am–3 pm
Jameel Gilbert | NYBG | 192FDN302B

6 Mondays, 10/29–12/17 (no class 11/12 & 12/10),
6:15–8:55 pm
Jameel Gilbert | Manhattan | 192FDN302C

4 Tuesdays, 2/5–2/26, 10 am–2:30 pm
Thomas Cawley | NYBG | 193FDN302D

Monday–Thursday, 2/4–2/7, 10:30 am–3 pm
Jameel Gilbert | Manhattan | 193FDN302E

\$395/\$435 *Certificate Requirement*

WEDDING DESIGN I: PERSONALS

Flowers play a crucial role in creating a memorable wedding. Learn the elements of successful floral wedding design, including the art of fine wiring and taping to create corsages and boutonnieres with fresh flowers, ribbons, and bows. Advance to the techniques of styling and assembling bridal and bridesmaid bouquets. \$225 materials fee.

P Prerequisite: *Fundamentals of Style*

4 Mondays, 9/24–10/22 (no class 10/8),
10:30 am–3 pm
Nsombi Woodson | NYBG | 191FDN304A

4 Mondays, 1/28–2/25 (no class 2/18),
10 am–2:30 pm
Thomas Cawley | NYBG | 193FDN304B

6 Tuesdays, 2/19–3/26, 6:15–8:55 pm
Claire Won Kang, AIFD | Manhattan | 193FDN304C

\$395/\$435 *Certificate Requirement*

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.

P Prerequisite: *Wedding Design I*

4 Mondays, 10/29–11/19, 10 am–2:30 pm
Thomas Cawley | NYBG | 192FDN305B

\$395/\$435 *Certificate Requirement*

Save 10%! This winter, complete FUNDAMENTALS OF FORM AND STYLE in just two weeks.

Monday–Thursday, 1/28–2/7, 10:30 am–3 pm
Jameel Gilbert | Manhattan | 193FDN956

\$1145 / \$1265

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 letter will include where we will meet in the flower district. Lunch is not included. Dress for the weather.

P Prerequisite: *Fundamentals of Form*

Monday, 9/17, 9 am–12:30 pm
Nsombi Woodson | Off site | 191FDN400D

Tuesday, 10/30, 9 am–12:30 pm
Rose G. Edinger | Off site | 192FDN400B

\$95/\$105 *Certificate Requirement*

COLOR THEORY FOR FLORAL DESIGN

Colors—like flowers themselves—evoke feeling and sentiment, and set the mood. Explore the role of color in floral design using a spectrum of flowers. This course gives you a solid grounding in color theory, while highlighting the latest hues and color combinations. \$75 materials fee.

2 Thursdays, 9/27 & 10/4, 10 am–2:30 pm
Jameel Gilbert | NYBG | 191FDN306C

3 Thursdays, 10/4–10/18, 6:15–8:55 pm
Rose G. Edinger | Manhattan | 192FDN306A

2 Saturdays, 2/2 & 2/9, 11 am–3:30 pm
Julio Jimenez | NYBG | 193FDN306B

3 Wednesdays, 2/20–3/6, 6:15–8:55 pm
Jameel Gilbert | Manhattan | 193FDN306C

\$195/\$215 *Certificate Requirement*

INTERIOR PLANTSCAPES

Florists and floral designers who want long-lasting, gorgeous interior plantings won't want to miss this unique class from florist, horticulturist, and indoor plant expert Chris Raimondi. In this class, Chris shares essential horticulture practices for proper selection and maintenance of plants used in atria, corporate offices, and for special events. Trimming, pruning, soil testing, pest prevention, cleaning, and more are covered. \$30 materials fee.

2 Thursdays, 10/18 & 10/25, 10 am–2:30 pm
Chris Raimondi, CLP | NYBG | 192FDN310A

\$195/\$215 *Certificate Requirement*

FLOWER ID FROM A TO Z

There are many types of flowers available for floral designers, from exotic imports to locally grown. Learn to identify new varieties of old favorites, seasonal flowers, and various foliage. Topics include the special handling needs of many flower types. Take home an assortment of flowers from each class. \$75 materials fee.

2 Sundays, 11/18 & 12/2, 10:30 am–3 pm
Jameel Gilbert | NYBG | 192FDN308A

3 Thursdays, 2/21–3/7, 6:15–8:55 pm
Rose G. Edinger | Manhattan | 193FDN308B

\$195/\$215 *Certificate Requirement*

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 time line. Learn how to stage decor for large-scale event arrangements, design cocktail receptions, and develop formal and informal tablescape. \$185 materials fee. **P** Prerequisite: *Wedding Design I*

Monday–Wednesday, 1/14–1/16, 10:30 am–3 pm
Jameel Gilbert | Manhattan | 193FDN504A

3 Tuesdays, 3/5–3/19, 10 am–2:30 pm
Thomas Cawley | NYBG | 193FDN504B

\$285/\$315 *Certificate Requirement*

NEW! MODERN SYMPATHY DESIGNS

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

Thursdays, 3/14, 10 am–4:30 pm
Claire Won Kang, AIFD | NYBG | 193FDN382

\$179/\$195 *Certificate Requirement*

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. \$200 materials fee. **P** Prerequisite: *Wedding Design II*

2 Wednesdays, 4/3 & 4/10, 10 am–2:30 pm
Thomas Cawley | NYBG | 194FDN502

\$225/\$249 *Certificate Requirement*



Illustration: *Lilium henryi* x *speciosum* 'Black Beauty' 2012 ©John Pastoriza-Piñol

THE CUTTING EDGE A Floral Design Series

Work closely with a trending floral designer whose unique ideas and approaches are bringing new energy to contemporary design.



FARM-FRESH FLOWERS: FROM FIELD TO VASE with Kate Gilman

Join us for a visit to Queens County Farm with **Kate Gilman** of Petal by Pedal. She'll introduce you to flower growers and discuss how to forge partnerships to provide you and your business with local, seasonal blooms. You'll craft an arrangement in her signature country-chic style using seasonal flowers cut from the farm.



Called "one of NYC's most buzzed about new florists" by *Estée Lauder*, Kate Gilman began Petal by Pedal in 2014 with a concept both nostalgic and revolutionary: Arrange and deliver flowers fresh from

local farms by bicycle throughout New York City. Since then, she has built a thriving eco-friendly, full-service floral design business that connects growers to consumers and uses eco-friendly alternatives to industry-standard materials in order to offer beautiful arrangements that carry a "lower carbon footprint per stem" (*Vogue*).

Kate strives to disrupt the wasteful floral industry standard and support local farmers while she fulfills Petal by Pedal's mission to "reinvent the timeless gesture of giving flowers through authenticity and simplicity." Her work has captured the imagination of brands including LinkedIn, Rebecca Minkoff, Tory Burch, Guest of a Guest, Racked, and FEED, among many others.

Tuesday, 10/2, 3–6 pm
Kate Gilman | NYBG | 192FDN422

\$195/\$215 *Certificate Elective*

FOOD & DRINK

Experiment with fermentation, food preservation, and bee-keeping! Or explore the botany and horticulture behind the foods and beverages you consume.



JAMMING WITH SEASONAL BERRIES

Get a little messy making late-summer fruit jam! Learn the basics of preserving without additives, discover new recipes, and cover the latest safety tips, while making a batch of jam that will transport you back to the warmth of summer, even in the dark of winter.

Sunday, 9/23, 10 am–1 pm
Michael Blakeney | NYBG | 191CKG200

\$95/\$105

NEW! MAKING KOMBUCHA

Fermentation is one of our oldest food processing methods. Scientifically known as zymology, it refers to the conversion of carbohydrates into alcohols, carbon dioxide, yeast, or bacteria. We'll cover the basic science of how to ferment tea to make kombucha, how it can improve your gut health, and ways to brew it yourself. You'll try your hand at preparing a drink and some fruit leathers. All participants will take home recipes and a starter culture.

Thursday, 9/27, 6:30–8:30 pm
Cheryl Paswater | Manhattan | 191CKG201A

Thursday, 2/28, 6:30–8:30 pm
Cheryl Paswater | Manhattan | 193CKG201B

\$69/\$75

TERROIR: THE ECOLOGY OF WINE

Wine carries the flavor of the land where its grapes are grown—something the French call *terroir*. Regions where the same grape varieties grow differ in terms of climate and soil composition. This is partly why Chardonnay wines made in California will taste drastically different from those made in France, even though they are sourced from the same grape variety. Discuss *terroir* with botanist and oenophile Tremeur Arbor, while sipping samples from inside our newly opened Edible Academy with a gorgeous view of the fall splendor of the Thain Family Forest. Tremeur will pour different wines at each session and demonstrate the basics of wine tasting. *No wine experience necessary!* 21+

Thursday, 9/27, 6:30–8:30 pm
Tremeur Arbor | NYBG | 191CKG202A

Thursday, 10/25, 6:30–8:30 pm
Tremeur Arbor | NYBG | 192CKG202B

\$95/\$105

NEW! PICKLING CUKES AND CARROTS

Experiment with great-grandma's tried-and-true processes to make pickled cucumbers—both spicy dill and sweet bread-and-butter. Then, try your hand at pickling carrots with garden herbs. Designed for beginners, and using the classic Ball Jar with separate lid and sealer ring, this class covers the basics—from recipes to food prep to sterilizing. You'll pick up tips and tricks for pickling all kinds of produce and head home with recipes and jars of tasty pickled goodies! Please bring lunch.

Saturday, 10/13, 11 am–4 pm
Michael Blakeney | NYBG | 192CKG204

\$115/\$125

Photo ©Janet Whitmer



Discover how a vineyard's ecology affects the taste of wine and whether organic production methods help the land.

HEALING SPIRITS: THE BOTANY OF APERITIFS AND DIGESTIFS

The centuries-old botanical history of aperitifs and digestifs, from Chartreuse to Fernet Branca, stems in part from a monastic quest to divine an "elixir of long life." Many cultures still commonly consume these herbal drinks, made of complex mixtures of plant material, for their unique flavor profiles and for their medicinal properties. As you taste selected aperitifs and digestifs, discover their botany and discuss the physiological impacts each have on human health. 21+

Wednesday, 10/17, 6:30–8:30 pm
Brian Hockaday | Manhattan | 192CKG203A

Sunday, 12/2, 2–4 pm
Tremeur Arbor | NYBG | 192CKG203B

Tuesday, 2/12, 6:30–8:30 pm
Brian Hockaday | Manhattan | 193CKG203C

\$85/\$95

NEW! THE WORLD OF ECO-FRIENDLY WINES

Organic and biodynamic wines are becoming more and more popular. But what do these terms really mean? Do the production methods used truly help the environment, or is it just a marketing trend? We'll sip samples of eco-friendly wines as we dive into the fascinating ways these wines are made and discuss why these production methods are considered to be environmental and health solutions.

2 Thursdays, 11/1 & 11/8, 6:30–8:30 pm
Tremeur Arbor | NYBG | 192CKG205

\$115/\$125

NEW! BEEKEEPING BASICS

Expert beekeepers Frank Mortimer and Bob 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.

Saturday, 11/10, 10 am–1 pm
Frank Mortimer & Bob Slanzi | Manhattan
192CKG206A

Saturday, 2/23, 10 am–1 pm
Frank Mortimer & Bob Slanzi | NYBG | 193CKG206B

\$55/\$59

GROW GOURMET MUSHROOMS INDOORS

Mushrooms have been utilized for thousands of years for medicinal and edible purposes. John Michelotti, owner of Catskill Fungi, will show you how to cultivate gourmet mushrooms at home using safe and simple techniques. Using cardboard and coffee grounds, create your own oyster mushroom starter (*Pleurotus ostreatus*) to take home, while learning about the life cycles, characteristics, and medicinal and culinary properties of fungi.

Thursday, 11/15, 6:15–9:15 pm
John Michelotti | Manhattan | 192CKG207A

Monday, 1/14, 6:15–9:15 pm
John Michelotti | Manhattan | 193CKG207B

Saturday, 2/10, 10 am–1 pm
John Michelotti | NYBG | 193CKG207C

\$75/\$85

NEW! MAKING MISO

High in protein and rich in vitamins and minerals, miso has played an important nutritional role in Japan for centuries. In the traditional recipe, soybeans are fermented with salt and the fungus Koji, or *Aspergillus oryzae*. Explore the science behind making miso—both with soy and without, why it's good for you, and how to prepare it yourself. You'll walk away with recipes and techniques for making miso from soybeans, black beans, and nuts at home.

Thursday, 1/31, 6:30–8:30 pm
Cheryl Paswater | Manhattan | 193CKG208

\$69/\$75

NEW! CHOCOLATE: A JOURNEY INTO A BITTERSWEET HISTORY

For 5,000 years, cacao has been a plant that brings out the best and worst in mankind. Ethnobotanist Brian Hockaday will trace the journey of *Theobroma cacao*, from its earliest use as an alcoholic beverage to its pivotal role in Mayan society and politics, and from its adoption by colonial powers to its expanding role in modern global economics, tropical agriculture, and international human rights. Discover the techniques involved in modern chocolate production while refining your palate with a tasting of single estate beans.

Wednesday, 2/6, 6:30–8:30 pm
Brian Hockaday | Manhattan | 193CKG209

\$55/\$59

NEW! THE WONDERS OF AGAVE: TEQUILAS, RAICILLA, MEZCAL, AND SOTOLS

Agave have been harvested from the arid "desert forests" of Mexico for over 9,000 years. Today, the genus is best known for the production of mezcal, which can be made from dozens of species, many still wild harvested today. Join NYBG ethnobotanist (and bartender!) Brian Hockaday to explore the history, biology, and taxonomy of this fascinating clade, while tasting your way through the family tree! 21+

Wednesday, 3/13, 6–8 pm
Brian Hockaday | Manhattan | 193CKG210

\$79/\$85



Make honey from your own beehive.



Grow gourmet mushrooms to cook with.



Create delicious pickled veggies.

GARDENING



Today more and more people are realizing the physical, social, and psychological benefits of working with nature, and home and community gardening is a great way to make that connection. Whether you are new to gardening or already working in the field, NYBG's gardening classes are a great place to increase your knowledge and improve your skills. Taught by top professionals, each course provides cutting-edge information on ecologically responsible garden care and design, including plant use, soil husbandry, composting, and pest control. Lectures are supported by hands-on study on the Garden's historic grounds. Enroll in a class for fun or pursue a Certificate.

THE CERTIFICATE PROGRAM

The NYBG Gardening Certificate Program covers sustainable gardening techniques, soil science, plant propagation, and garden care and design. Regional experts guide you through the art and science of plant selection and care for home or small-scale residential/urban/community gardens and greening projects. Certificate classes begin on page 29.

Upon completion of the 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 fruits.
- Have the confidence to grow and maintain home, terrace, or community gardens.
- Understand the essential concepts of sustainable gardening practices for trees, shrubs, lawns, perennials, and vegetables.

CERTIFICATE REQUIREMENTS

COURSE	CODE	HOURS	PAGE
Fundamentals of Gardening	GAR 301	12	29
Introduction to Plant Science	HRT 300	16	36
Soil Science for Gardeners	GAR 302	12	29
Gardening with Native Plants**	GAR 315	9	—
Insect Identification and Management**	GAR 320	12	—
Disease Identification and Management **	GAR 324	12	—
Fundamentals of Garden Design	GAR 342 P	12	29
Vegetable Gardening	GAR 431 P	12	29
Complete Garden Care and Maintenance**	GAR 440 P	18	—
Pruning Principles and Practices	HRT 321	15	39
Plants for Landscaping	HRT 358	16	37
Plant Propagation I: Basic Principles	HRT 411 P	18	38
<i>Elective GAR or HRT courses</i>		23	
TOTAL REQUIRED HOURS		187	

ELECTIVES

COURSE	CODE	HOURS	PAGE
Basic Color Theory for Gardeners	GAR 367	4	29
Garden Design Workshop	GAR 317	8	29
Container Gardening	GAR 327	8	28
A Four-Season Native Garden	GAR 369	4	28
Botanical Latin	GAR 360	10	29

**Courses offered in the Spring–Summer Catalog

P Courses with a prerequisite before you can register

For professional organizations, see p. 59.



The Program Coordinator, Daryl Beyers, brings over 20 years' experience designing residential gardens and private estates to NYBG. Daryl has gone from the self-described “the guy pushing the wheelbarrow” to the owner of his own design business and an accomplished garden writer. He's a former editor at *Fine Gardening*, and his articles have been featured in *HGTV Magazine* and in *Martha Stewart Living*, where he also served as Contributing Editor.

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

“I started as a self-taught gardener more than 25 years ago. NYBG’s Gardening Program helped me become a more skilled gardener. I’m so happy I joined in!”

—DONNA DORIAN, 2018 Graduate



OUTDOOR PLANTS

NEW! MASTERING THE ART OF TOMATO GARDENING

Brooklyn's Eagle Street Farm founder Annie Novak shows you how to maintain a healthy, organic tomato garden in raised beds on your rooftop, in containers on your balcony, or in your backyard. Discover the best ways to create trellises, make a fertilizing regimen, manage pests and diseases, and select and store your most successful plants' seeds. Beginners and pros welcome!

Wednesday, 9/26, 6–9 pm
Annie Novak | Manhattan | 191GAR143B

\$55/\$59

ALL ABOUT BULBS

Since October is the optimum month to plant bulbs, now is the time to decide what will work best in your garden. Martha Stewart's Head Gardener Ryan McCallister is a bulb expert having grown hundreds of thousands on her farm. He'll discuss the biology, cultural needs, and particular habits of a wide variety of bulb types.

Saturday, 9/22, 10 am–1 pm
Ryan McCallister | NYBG | 191GAR220A

Saturday, 9/29, 10 am–1 pm
Ryan McCallister | Manhattan | 191GAR220B

\$75/\$85

NEW! A FOUR-SEASON NATIVE GARDEN

With a little bit of planning, your garden can look beautiful in all seasons, even after the flowers fade. Knowing which plants to select is key, since, according to rock star garden designer Piet Oudolf, it's about "texture and shape, the seed heads and the skeletons." Instructor Kim Eierman will introduce you to a variety of native plants that will extend the color show and textural interest in your garden through fall and winter, with beautiful foliage, striking structure, colorful branches, berries, and seed pods.

Saturday, 9/22, 10 am–2:30 pm
Kim Eierman | NYBG | 191GAR369

\$85/\$95

NEW! FALL DAHLIA WORKSHOP

When celebrated ceramicist Frances Palmer isn't making gorgeous vessels, she's growing the sumptuous dahlias featured on her wildly popular Instagram feed. In this new workshop, she'll share secrets about how to divide, plant, fertilize, and stake your spring tubers, in addition to how to dig up and store them over the winter. You'll also learn how to select blooms and compose simple, yet stunning flower arrangements.

Saturday, 9/29, 10 am–1 pm
Frances Palmer | NYBG | 191GAR279

\$69/\$75

NATIVE GRASSES: PROVIDING FALL SPLENDOR

Native grasses are some of the most low maintenance plants in the garden and add a compelling element to landscape design. They come in many heights, textures, and colors, while seed heads and foliage provide fall and winter interest. Discover the full and rich variety of grasses in the Native Plant Garden that can be used as groundcovers, specimen plants, vertical design elements, and also for erosion control. Please dress for the weather.

Saturday, 10/20, 10 am–1 pm
Bill Kolvek | NYBG | 192GAR119

\$69/\$75

BASIC BOTANY FOR GARDENERS

Understanding how plants grow is vital to successful gardening. Ideal for gardeners at any level, this course explores the basic principles of plant physiology with a focus on vital aspects of botany that every gardener should understand. Learn helpful tricks and tips as we study core botanical principles in fast and friendly terms.

3 Wednesdays, 1/16–1/30, 6–8:40 pm
Daryl Beyers | Manhattan | 193GAR312

\$189/\$209

VERTICAL GARDENING: VINES & CLIMBERS

Vines and other climbing plants like clematis, wisteria, roses, hardy jasmine, and climbing hydrangea not only sport beautiful blossoms, they also provide strong vertical design—in backyards and patios, or rooftops and terraces. They can create outdoor enclosures and transform unattractive structures by clinging, twining, scrambling, or trailing. And in urban spaces, these vertical gardens give you more bloom for your buck! Learn how to choose the right climbing plant and how to train it to grow on a wall, up a trellis, or over an arbor or pergola.

Thursday, 3/28, 6–9 pm
Doris Loechle | Manhattan | 193GAR146

\$55/\$59

BASIC LANDSCAPE DESIGN FOR GARDENERS

INTRO TO LANDSCAPE DESIGN

Gain an introduction to the terminology, concepts, and basic principles of landscape design through lectures and simple two-dimensional exercises. This course is recommended for students with little or no background in design who want to design for their own home or who are considering a Certificate.

3 Mondays, 9/17–10/1, 10 am–1 pm
Daryl Beyers | NYBG | 191LAN100C

3 Tuesdays, 9/25–10/9, 6:15–9:15 pm
Kimberly Tryba | Manhattan | 191LAN100D

3 Mondays, 10/15–10/29, 10 am–1 pm
Daryl Beyers | Manhattan | 192LAN100A

3 Saturdays, 11/3–11/17, 10 am–1 pm
Kimberly Tryba | Manhattan | 192LAN100B

3 Saturdays, 2/23–3/9, 10 am–1 pm
Kimberly Tryba | Manhattan | 193LAN100C

3 Thursdays, 3/7–3/21, 10 am–1 pm
Sheri Forster | New Canaan Nature Center,
New Canaan, Conn. | 193LAN100D

\$185/\$205

CONTAINER GARDENING

Container gardening know-how is in high demand. Learn how to create a container garden for your patio, terrace, or entryway that is at once functional and gorgeous—and discover techniques for ensuring that your plants thrive in all four seasons.

2 Thursdays, 10/25 & 11/1, 10 am–2:30 pm
Renee Marsh | NYBG | 192GAR327A

2 Sundays, 3/17 & 3/24, 10 am–2:30 pm
Daryl Beyers | NYBG | 193GAR327B

\$229/\$249 *Certificate Elective*

A GARDEN DESIGN PRIMER

Take all your garden ideas and start putting them into place with this practical overview of garden design principles that ensure the best layout plan and circulation patterns. Learn how to analyze the space and create the perfect proportions that complement both home and garden, resulting in a coherent landscape design.

Saturday, 1/12, 10 am–12 pm
Daryl Beyers | NYBG | 193GAR222A

Monday, 2/25, 6–8 pm
Daryl Beyers | Manhattan | 193GAR222B

\$39/\$45

GARDEN DESIGN WORKSHOP

Good garden design isn't easy, but for anyone with a passion for plants, a little imagination, and proper guidance, it is possible to succeed. Learn the basics of garden design, 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 take home to refine and implement come spring.

2 Saturdays, 1/26 & 2/2, 10 am–2:30 pm
Daryl Beyers | NYBG | 193GAR317

\$225/\$249 *Certificate Elective*

PERENNIAL PLANT COMBINATIONS

Whether in a shady corner or a sunny border, selecting the right plant combinations makes the difference between a ho-hum garden and one that gets rave reviews. Concentrating on perennials, learn to use color, texture, height, and bloom when combining plants to create a harmonious look for your garden come spring. Please bring lunch.

Thursday, 1/31, 10:30 am–3 pm
Sheri Forster | New Canaan Nature Center,
New Canaan, Conn. | 193GAR173A

Tuesday, 2/12, 10:30 am–3 pm
Richard Rosiello | NYBG | 193GAR173B

Wednesday, 2/27, 10:30 am–3 pm
Sheri Forster | Manhattan | 193GAR173C

Saturday, 3/23, 10:30 am–3 pm
Michele Langone | NYBG | 193GAR173D

\$79/\$85

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. Please bring lunch.

Saturday, 2/23, 10 am–2:30 pm
Laura McKillop | NYBG | 193GAR367

\$99/\$109 *Certificate Elective*

CERTIFICATE CLASSES

Open to Non-Certificate students.

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.

5 Wednesdays, 9/26–10/24, 10:30 am–12:30 pm
Jennifer Bakshi | NYBG | 191GAR360A

5 Mondays, 3/11–4/8, 6:15–8:15 pm
Jennifer Bakshi | Manhattan | 193GAR360B

\$255/\$279 *Certificate Elective*

FUNDAMENTALS OF GARDENING

This course is also required for the Horticultural Therapy Certificate.

Explore the basic principles underlying successful, environmentally friendly gardening, including the structure and physiological processes of plants and their relationships to the settings in which they grow. Students learn not only what to do, but why. Topics include soils and their improvement, seed sowing, vegetative propagation, planting, pruning, watering, weeding, mulching, and disease and pest control.

4 Mondays, 9/17–10/15 (no class 10/8), 6–9 pm
Manny Grossman | Manhattan | 191GAR301F

6 Tuesdays, 9/25–10/30, 6:15–8:15 pm
Daryl Beyers | NYBG | 191GAR301G

4 Fridays, 11/2–11/30 (no class 11/23), 10 am–1 pm
Daryl Beyers | NYBG | 192GAR301A

4 Tuesdays, 1/8–1/29, 6 pm–9 pm
Daryl Beyers | Manhattan | 193GAR301B


4 Fridays, 2/1–2/22, 10 am–1 pm
Daryl Beyers | NYBG | 193GAR301C

Monday–Thursday, 2/4–2/7, 6–9 pm
Manny Grossman | Manhattan | 193GAR301D

4 Saturdays, 3/9–3/30, 10 am–1 pm
Michael Ruggiero | NYBG | 193GAR301E

\$295/\$325 *Certificate Requirement*

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*

5 Wednesdays, 10/17–11/14, 10:30 am–1 pm
Sheri Forster | NYBG | 192GAR342A

4 Thursdays, 3/7–3/28, 6:15–9:15 pm
Daryl Beyers | Manhattan | 193GAR342B

\$285/\$315 *Certificate Requirement*

SOIL SCIENCE FOR GARDENERS


Understand how the qualities of soil affect the overall productivity of plants and make sustainable gardening practices possible. Practical application of theory is stressed. Topics include soil formation, physical properties of soil, soil-water relationships, and management techniques such as irrigation, drainage, and fertilization. Basic soil sampling, pH, and nutrient testing are introduced. Please note that this course is not the same as *Soil Science I*.

4 Thursdays, 1/10–1/31, 10 am–1 pm
Manny Grossman | NYBG | 193GAR302A

4 Tuesdays, 2/12–3/5, 6–9 pm
Manny Grossman | Manhattan | 193GAR302B

\$285/\$315 *Certificate Requirement*

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*

4 Wednesdays, 2/6–2/27, 6:15–9:15 pm
Nick Storrs | NYBG | 193GAR431A

\$265/\$289 *Certificate Requirement*





Photo © @melissamilo on Instagram

INDOOR PLANTS

NEW! HOUSEPLANT DESIGN WORKSHOP

Do you prefer simple and clean or wild and lush? Whatever your preference, learn to use basic principles of repetition, symmetry, and color theory to blend your beloved collection of houseplants into a unified design. We'll discuss a broad palette of plants, how to mix and match them, and how to select the best pots or shelves to complement your decor. Walk away with a unique potted houseplant.

Thursday, 10/4, 6–9 pm
Daryl Beyers | Manhattan | 192GAR364A

Saturday, 12/1, 10 am–1 pm
Daryl Beyers | Manhattan | 192GAR364B

\$95/\$105 *Certificate Elective*

BONSAI FOR BEGINNERS WORKSHOP

Learn the fundamentals for turning ordinary nursery stock into a living work of art. This workshop covers the five major styles of bonsai along with plant and container selection, branch and root pruning, wiring, and potting. Students can choose to work with a tree that grows indoors or outdoors. Soil, container, wire, and tree will be provided. Please bring sturdy chopsticks, good pruning shears, and lunch to class.

Saturday, 10/13, 10 am–3:30 pm
John Capobianco | Manhattan | 192GAR912A

Sunday, 10/14, 10 am–3:30 pm
John Capobianco | NYBG | 192GAR912B

Saturday, 11/10, 10 am–3:30 pm
John Capobianco | Manhattan | 192GAR912C

\$195/\$215

NEW! SUCCULENTS IN CONTAINERS

Charming and relatively low maintenance, succulents make the perfect container planting. We'll go beyond the basics as we discuss how to choose and combine species to create healthy, beautiful plant communities. You'll also learn which soils and fertilizers to use, what to do with those pesky bugs, and how/when to repot your plants. Pot up the succulent of your choice to bring home.

Saturday, 10/20, 12–3 pm
Daryl Beyers | Manhattan | 192GAR291

\$95/\$105

NEW! INDOOR TROPICALS

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

Thursday, 11/8, 10 am–1 pm
Mary Jo Palmer | NYBG | 192GAR289A

Saturday, 2/2, 10 am–1 pm
Colin Wright | Manhattan | 193GAR289B

Saturday, 3/23, 10 am–1 pm
Colin Wright | Manhattan | 193GAR289C

\$95/\$105

NEW! KIKU: LIVING SCULPTURES

Get an insiders' look into the art and science of how expert horticulturists create living sculptures out of chrysanthemums. A far cry from the ones at your local supermarket, exhibition mums have been prized in Japan for centuries and are the centerpiece of NYBG's annual *Kiku* exhibit. Award-winning chrysanthemum bonsai expert, John Capobianco, will explain the ins and outs of the techniques used to create these stunning displays—from *ozukuri*, a dome-shaped array of up to 200 symmetrically placed blooms grown from a single stem, to *kengai*, a dramatic cascading form meant to look like wild plants flowing down a cliff. You'll cap the day with a tour through NYBG's *Kiku* exhibit, where you can see these beauties in their full glory.

Saturday, 11/3, 10 am–2:30 pm
John Capobianco | NYBG | 192GAR936

\$79/85

FRAGRANT INDOOR GARDEN

When winter winds blow cold, bring nature inside with houseplants that provide fragrance and color all year round. Learn the full range of indoor plants with scented flowers and foliage: citrus, jasmines, hoyas, passionflowers, geraniums, orchids, herbs, bulbs, and more! Discover how to select the appropriate plant for each growing space. You'll leave class knowing how to pot, water, fertilize, and source scented plants.

Saturday, 2/9, 10 am–1 pm
Jim Freeman | Manhattan | 193GAR223A

Tuesday, 2/19, 6–9 pm
Jim Freeman | NYBG | 193GAR223B

\$65/\$69

BUILDING A GREEN WALL

Would you like to bring the outside inside? Green walls bring a striking beauty to any room, and help create a calm, healthy environment by reducing noise, removing air toxins, and adding moisture and fresh oxygen to your living area. Discover best practices about what hardware, plants, and watering systems to use, while building a small living wall, under the guidance of interior plantscape expert Chris Raimondi.

Saturday, 3/9, 10 am–2 pm
Chris Raimondi | Manhattan | 193LAN120A

Friday, 3/15, 10 am–2 pm
Chris Raimondi | NYBG | 193LAN120B

\$125/\$139



Photo © Erin Harding (Clever Bloom)

Saturday Gardening Workshops in Manhattan

©Hanna Packer Design Inc. Photo: Betsy Pinover Schiff



All About Containers

OCTOBER 27 | Midtown Education Center, Manhattan

Plants in pots can turn an ordinary deck, rooftop, terrace or front porch, into a bountiful gardening space filled with foliage and flowers. Autumn brings new opportunities—and challenges—for every container gardener, whatever their experience level. Learn which plants are ideal for containers, how to maintain them, and where to easily source the best supplies.

10 am–12 pm

CONTAINER GARDENING 101

Container gardening requires some specialized knowledge to achieve quality results. Learn the basics for planting and maintaining a healthy outdoor container garden: materials and styles of containers, customized potting mixes, fertilization, and watering requirements. Learn which plants thrive in containers and you'll be ready to go!

Daryl Beyers | 192GAR200B

12:45–2:45 pm

THE VERY BEST PLANTS FOR POTS

Containers are an unnatural habitat that have fertilizer, water and root restrictions that suit some plants better than others. Find out which plants to avoid (eggplant), which ones work well (Japanese maple), and those that thrive (begonia).

Richard Rosiello | 192GAR200C

3–5 pm

NEW YORKER'S GUIDE TO GARDENING RESOURCES

Get the inside scoop on finding everything you need to garden in the city without ever leaving the five boroughs, from hoses to roses to decomposers.

Colin Wright | 192GAR200D

**Registration fee for each section:
\$39/\$45**

**All Three Sections:
Manhattan | 192GAR200A | \$99/\$109**

Manhattan Apartment Gardener's Saturday

NOVEMBER 17

Midtown Education Center, Manhattan

From windows to terraces, indoors or out, apartment dwellers have ample opportunity to garden—even as winter approaches! Whether you want to develop your green thumb by learning how to select incredible houseplants (and how to care for them) or by growing herbs indoors during the colder months, this day's classes will show you how.

10 am–12 pm

CREATING AN INDOOR GARDEN

Successful indoor gardening requires knowledge of both plant material and growing techniques. Learn to select the right plants for various locations, based on light levels, temperatures, and aesthetics. Discuss unusual plants, tools and supplies, and maintenance such as grooming, nutrition, and pest control that will keep your plants in good shape.

Chris Raimondi, CLP | 192GAR299B

12:45–2:45 pm

SUCCEED WITH LOW-LIGHT PLANTS

Houseplants don't have to be dull! Find out about new and unusual plants that thrive in the light-deprived corners of your home or office. Learn how to analyze light conditions to choose the right plants for your space. Discover cultivation techniques for these shade-loving species, including fertilization, water management, and pest control. Your household flora will never be the same again!

Richard Rosiello | 192GAR299C

3–5 pm

GROWING HERBS INDOORS

You can have fresh herbs year-round by learning specific techniques for growing them indoors. Whether you want to successfully transplant your outdoor herb garden inside, or start your kitchen herb garden from scratch, this class will teach you the essentials of managing indoor growing conditions for aromatic herbs. You will also learn the best ways to harvest herbs and how to store them for maximum flavor and fragrance.

Nick Storrs | 192GAR299D

**Registration fee for each section:
\$39/\$45**

**All Three Sections:
Manhattan | 192GAR299A | \$99/\$109**

GARDEN MAINTENANCE

PUT YOUR GARDEN TO BED

What can you do this fall to ensure a healthy garden next spring? Get a head start on your best garden ever by taking care of it now! Learn techniques to improve soil quality, protect perennials and tender plants through the winter, eliminate choice over-wintering sites for insects and diseases, and manage all those fallen leaves.

Wednesday, 10/3, 6–8 pm
Leda Meredith | Manhattan | 192GAR185A

Thursday, 10/4, 10 am–12 pm
Leda Meredith | NYBG | 192GAR185B

\$45/\$49

PRUNING: HOW, WHEN, AND WHERE

This one-day course covers the basics of pruning evergreens, deciduous trees, and shrubs, as well as how to maintain the woody plants in your garden. Bring your pruners! We will discuss tool selection and maintenance, while we practice techniques using potted plants (at NYBG) and trees in the landscape (at NCNC). Class is held rain or shine. Please dress for the weather and bring lunch.

Saturday, 11/3, 10 am–3 pm
Ann Perkowski | NYBG | 192GAR236A

Saturday, 3/2, 10 am–3 pm
Ann Perkowski | New Canaan Nature Center,
New Canaan, Conn. | 193GAR236B

Sunday, 3/3, 10 am–3 pm
John Beirne | NYBG | 193GAR236C

\$119/\$129

COMPOST: FOOD FOR YOUR PLANTS!

Explore the basics of how your kitchen and yard waste can be used to improve the quality of soil in your garden, be it on a rooftop, a community plot, or a backyard. Compost provides a clean, safe medium for growing food and supplies the micro-nutrients that plants require to overcome diseases and pests. We'll discuss various methods of composting that improve soil fertility and structure, and weigh the pros and cons of each.

Wednesday, 3/6, 6–8 pm
Claudia Joseph | Manhattan | 193GAR251

\$45/\$49

Saturday Gardening Workshops at NYBG and New Canaan Nature Center



Wake Up Your Garden!

FEBRUARY 9 | Watson Education Building, NYBG

FEBRUARY 23 | New Canaan Nature Center, Connecticut

Spring is just around the corner, and with a little advance preparation, you'll be ready to start the growing season right. Gain insights into getting the soil prepped and ready to go, best pruning practices, and waking up the garden after winter. Have the healthiest, best-looking garden in your neighborhood!

10 am–12 pm

SPRING GARDENERS TASK LIST

Spring cleaning in the garden can be fun. Get shrub and herbaceous borders spruced up and looking good! Review a checklist of tasks to be performed during spring maintenance, ranging from raking off winter mulch to looking for signs of winter injury and noting where gaps in the garden can be filled. All this gives your garden a head start on a great growing season.

Daryl Beyers | NYBG | 193GAR225B

Daryl Beyers | NCNC | 193GAR225F

12:45–2:45 pm

SOIL BASICS: GET IT RIGHT!

If you get your soil right from the start, your garden will explode in lushness. 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 you can modify your soil to improve its qualities. Give your garden a solid foundation, and you'll reap the benefits for years to come.

Manny Grossman | NYBG | 193GAR225C

Richard Rosiello | NCNC | 193GAR225G

3–5 pm

PRUNING: SHAPE-UP FOR SPRING

Are you intimidated by the idea of pruning? March is a great time to get your woody plants in shape by thinning out overgrowth to create open, healthy, beautiful trees and shrubs. Learn how and when to prune, the tools needed for the job, why pruning is necessary, and the difference between maintenance and rejuvenation pruning.

Michael Ruggiero | NYBG | 193GAR225D

Michael Ruggiero | NCNC | 193GAR225H

**Registration fee for each section:
\$39/\$45**

**All Three Sections:
NYBG | 193GAR225A | \$99/\$109
NCNC | 193GAR225E | \$99/\$109**



Get Ready for Spring Vegetable Gardening!

Grow your own veggies and herbs with help from NYBG's experts. These classes will help you start a vegetable garden, or make the most of the garden you have.

A KITCHEN GARDEN PLAN

Devote special new space for herbs, vegetables, fruits, and flowers for cutting. Get design inspirations for planning your own kitchen garden and discover tried-and-true small trees, shrubs, and herbaceous plants best suited to your site. Explore annuals and perennials, herbs for tea and culinary uses, and great ways to include both classic and novelty vegetables.

Sunday, 1/27, 10 am–1 pm
Ryan McCallister | NYBG | 193GAR155

\$55/\$59

ROOFTOP GARDENING

Farms and edible gardens are popping up on rooftops across the country. But rooftop spaces have their own unique challenges for soil maintenance, watering, crop management, installation, and more. Annie Novak, cofounder of America's first fully landscaped green roof commercial vegetable farm and author of the 2016 bestseller *The Rooftop Growing Guide*, shows you how to make your rooftop garden thrive. From vegetable selection to pest control to composting, you'll learn the basic tricks of the rooftop growing, covering both container and green roof gardens on rooftops and terraces.

2 Wednesdays, 2/20 & 2/27, 6:15–9:15 pm
Annie Novak | Manhattan | 193GAR204

\$115/\$125

GET MORE FROM YOUR VEGETABLE GARDEN

Abundant and delicious home-grown vegetables can be a huge commitment—so it pays to be smart with your time and labor. Learn techniques such as succession and companion planting, stacking, and vertical growing so you can enjoy a steady harvest, a wide variety of delicious vegetables, and a garden that almost takes care of itself. Imagine that!

Thursday, 3/7, 10:30 am–1:30 pm
Nick Storrs | NYBG | 193GAR134

\$55/\$59

INTENSIVE GROWING TECHNIQUES FOR HOMEGROWN EDIBLES

Learn how to grow more fruits and vegetables in less space by making the most of your growing area and by extending the gardening season. Discover organic methods that take advantage of passive solar heating, vertical space, raised beds, and other techniques. Enjoy nutritious, freshly picked garden produce as early as April and then just keep on picking.

Saturday, 3/2, 10 am–1 pm
Colin Wright | NYBG | 193GAR116A

Saturday, 3/16, 12–3 pm
Colin Wright | Manhattan | 193GAR116B

\$59/\$65

RAISED BED GARDENING

Raised beds are used to grow more vegetables, herbs, or ornamentals in a given area with less effort. They also help to overcome difficult situations such as wet soil, limited space, or poor light. Raised beds are ideal in many therapeutic settings as well, because they elevate the plants, bringing them closer to the patients. Methods of creating raised beds and their aesthetic considerations are discussed.

Saturday, 3/2, 2–4 pm
Nick Storrs | NYBG | 193GAR280

\$39/\$45

SUPER SMALL SPACE VEGGIE GARDENING

Whether you have a terrace, rooftop, or tiny backyard, learn how to grow the most veggies in the space you have. Discover the best practices for successful small-space gardening from soil preparation to container selection and bed design, crop choices, and tips for high-yield results. Get your spring started with smart seed ordering, growing and choosing the right transplants, and strategizing for irrigation, pest management, and more. Class includes time to tailor lessons learned to your particular garden space.

3 Tuesdays, 3/12–3/26, 6–9 pm
Annie Novak | Manhattan | 193GAR102

\$169/\$185



Annie Novak, Eagle Street Rooftop Farm. Photo: ©The Selby



HORTICULTURE



Develop the vital skills needed to protect and manage landscapes, maintain healthy trees, design attractive gardens, and produce landscape plants. Many horticulture students start their own businesses or pursue rewarding careers in a breadth of areas, including landscaping companies, nurseries and garden centers, public parks, botanical gardens, and private estates. Enroll in a single class or pursue a Horticulture Certificate.

THE CERTIFICATE PROGRAM

The NYBG Horticulture Program blends classroom theory with field studies in the Garden's historic landscape, teaching students how to form and care for healthy, sustainable landscapes. Courses are designed and taught by landscape professionals, botanists, and practicing horticulturists. The program offers a high standard of training in four areas of concentration:

TRACK 1: PLANT PRODUCTION

Gain the skills to propagate and produce an array of native and non-native plants for nurseries, garden centers, and landscape-restoration projects.

TRACK 2: SUSTAINABLE LANDSCAPE MANAGEMENT

Understand landscape maintenance and management practices using the concept "right plant—right place" in residential and commercial landscapes.

TRACK 3: ARBORICULTURE

Know how to grow, prune, care for, and manage trees in parks, residential sites, and urban environments.

TRACK 4: SUSTAINABLE GARDEN DESIGN

Be able to design small-scale gardens for homes, communities, and private clients.

CERTIFICATE REQUIREMENTS

COURSE	CODE	HOURS*	PAGES
PLANT PRODUCTION—TRACK 1			
Introduction to Plant Science	HRT 300	16	36
Soil Science I: Physical Properties	HRT 301	18	37
Soil Science II: Chemistry and Nutrition	HRT 302 P	18	37
Horticultural Techniques: Greenhouse Practices	HRT 312 P	15	38
Insect Pests of Landscape Plants**	HRT 381 P	18	—
Plant Propagation I: Basic Principles	HRT 411 P	18	38
Plant Propagation II: Applications	HRT 412 P	16	38
Disease Identification & Management	HRT 481 P	18	38
Nursery and Greenhouse Management	HRT 491 P	24	38
TOTAL REQUIRED HOURS		161	

*Course hours do not include exam hours

**Courses offered in the Spring–Summer Catalog

P Courses with a prerequisite before you can register

For professional horticultural organizations, see p. 59.



The Program Coordinator, Charles Yurgalevitch, Ph.D., is the Director of the Garden's School of Professional Horticulture. A professional urban horticulturist and educator, he is an ISA-certified arborist and serves as President on the Board of Directors of the Metro Hort Group. Previously he was with the University of Florida's Extension Service, where he developed programs for arborists, landscape architects, and the commercial landscape industry. He has a BS in plant science from the University of Rhode Island and a Ph.D. in horticulture from Rutgers University.



**GET NYBG
CERTIFIED**

The increasing concern for environmental quality, conservation, and restoration is driving jobs in the horticulture industry—which will grow 18% in the next decade, according to the Bureau of Labor Statistics. In public parks and private gardens nationwide, demand continues for native, easily maintained landscapes. The NYBG Horticulture Certificate is a serious credential that helps professionals enhance their profile, as well as individuals exploring new green careers. It's a unique opportunity for rigorous study with landscape professionals and horticulture experts on the grounds of America's premier urban garden.

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

CERTIFICATE REQUIREMENTS

COURSE	CODE	HOURS*	PAGES
SUSTAINABLE LANDSCAPE MANAGEMENT—TRACK 2			
Introduction to Plant Science	HRT 300	16	36
Soil Science I: Physical Properties	HRT 301	18	37
Soil Science II: Chemistry and Nutrition	HRT 302 P	18	37
Horticultural Techniques: Landscape Gardening	HRT 311 P	38	
Pruning Principles and Practices	HRT 321 P	15	39
Basic Design and Installation of Irrigation Systems	HRT 323	12	39
Starting a Small Landscaping Business	HRT 349	14	38
Insect Pests of Landscape Plants**	HRT 381 P	18	—
Tree Management	HRT 422 P	14	39
Landscape Management	HRT 443 P	24	38
Disease Identification & Management	HRT 481 P	18	38
Weed Identification & Management	HRT 482 P	12	38
Mathematics for Horticulturists	HRT 356	6	39
TOTAL REQUIRED HOURS		209	

ARBORICULTURE—TRACK 3

Introduction to Plant Science	HRT 300	16	36
Soil Science I: Physical Properties	HRT 301	18	37
Soil Science II: Chemistry and Nutrition	HRT 302 P	18	37
Tree Climbing for Arborists**	HRT 304	15	—
Chainsaws: Use, Safety, and Maintenance	HRT 308	6	39
Pruning Principles and Practices	HRT 321 P	15	39
Landscape Plants: Fall Trees and Shrubs	HRT 331 P	12	37
Landscape Plants: Conifers	HRT 333 P	12	37
Landscape Plants: Spring Trees and Shrubs**	HRT 334 P	12	—
Insect Pests of Landscape Plants**	HRT 381 P	18	—
Tree Management	HRT 422 P	14	39
Urban Tree Care**	HRT 426 P	12	—
Winter Tree Identification	HRT 440 P	8	39
Disease Identification & Management	HRT 481 P	18	38
TOTAL REQUIRED HOURS		194	

SUSTAINABLE GARDEN DESIGN—TRACK 4

Introduction to Plant Science	HRT 300	16	36
Soil Science I: Physical Properties	HRT 301	18	37
Landscape Plants: Broadleaved Evergreens	HRT 332 P	9	37
Landscape Plants: Spring Trees and Shrubs**	HRT 334 P	12	—
Landscape Plants: Spring Perennials**	HRT 336 P	9	—
Landscape Plants: Summer and Fall Perennials	HRT 337 P	9	37
Landscape Plants: Annuals**	HRT 341 P	8	—
Landscape Plants: Bulbs	HRT 342 P	12	38
Annual and Perennial Garden Maintenance	HRT 344 P	8	39
Plants for Landscaping	HRT 358	16	37
Tropical Plants**	HRT 361 P	14	—
Sustainable Garden Design	HRT 551 P	20	37
Landscape Design History	LAN 301	24	46
Graphics I	LAN 311	24	47
TOTAL REQUIRED HOURS		199	

*Course hours do not include exam hours

**Courses offered in the Spring–Summer Catalog

P Courses with a prerequisite before you can register

For professional horticultural organizations, see p. 59.



INTRODUCTION TO PLANT SCIENCE

ALL TRACKS

Designed for students who want a user-friendly introduction to plant science, this course surveys the major groups of plants—flowering plants, conifers, ferns, and bryophytes—focusing on plant form and structure. Learn about the relationships between appearance and function, ecology, systematics, and evolution, and become botanically literate. Gain practical experience in dissecting and analyzing plant structures.

7 Saturdays, 9/8–10/27 (no class 10/6),
10 am–12:40 pm

Christopher Satch | Manhattan | 191HRT300F

7 Thursdays, 9/27–11/8 (no class 10/6), 10:30 am–1:10 pm

Anya Paltseva | NYBG | 191HRT300E

7 Thursdays, 9/27–11/8 (no class 10/6), 2–4:40 pm

Manny Grossman | NYBG | 191HRT300A

7 Sundays, 10/14–12/16 (no class 10/21, 11/11 and 11/25), 2–4:40 pm

Elle Barnes | NYBG | 192HRT300B

7 Tuesdays, 10/23–12/11 (no class 11/20),
6–8:40 pm

Manny Grossman | Manhattan | 192HRT300C

Mondays, Wednesdays, Fridays, 1/7–1/23 (no class 1/21), 10 am–12:40 pm

Manny Grossman | NYBG | 193HRT300D

4 Tuesdays and 3 Thursdays, 1/8–1/29 (no class 1/29), 6–8:40 pm

Manny Grossman | Manhattan | 193HRT300E

7 Saturdays, 1/26–3/16 (no class 2/16),
10 am–12:40 pm

Steve Kutos | NYBG | 193HRT300F

7 Thursdays, 1/31–3/14 (no class 3/14), 10 am–12:40 pm

Leslie Day | NYBG | 193HRT300G

7 Saturdays, 2/2–3/23 (no class 2/16),
10 am–12:40 pm

Christopher Satch | Manhattan | 193HRT300H

\$395/\$435

Exam on last class date.

SOIL SCIENCE I: PHYSICAL PROPERTIES

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 labs using microscopes, learn irrigation and drainage techniques and explore how soil, organic matter, and microbiology relate to plant health and soil conservation.

7 Thursdays, 9/27–11/8, 2–5 pm
Anya Paltseva | NYBG | 191HRT301A

7 Saturdays, 1/26–3/16 (no class 2/16),
10:30 am–1:30 pm
Anya Paltseva | NYBG | 193HRT301B

7 Thursdays, 1/31–3/14, 6–9 pm
Manny Grossman | NYBG | 193HRT301P

8 Wednesdays, 1/30–3/20, 10 am–12:35 pm
George Lozefski | NYBG | 193HRT301S

7 Thursdays, 3/14–4/25, 10:30 am–1:30 pm
Anya Paltseva | NYBG | 193HRT301D

\$455/\$495

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

Learn how to nurture the soil so it can sustain your plants. Go beyond basic soil chemistry, by understanding the ionic exchange capacities of soil, as well as how a soil's pH affects what nutrients are available to plants. Explore the complex nitrogen cycle, and the use of composted soil amendments, and fertilizers. In addition, analyze your own soil sample, and discover how soil and plant tissue tests can help monitor plant nutrition and health. **P** Prerequisite: *Soil Science I*

7 Wednesdays, 12/12–2/13 (no class 12/19,
12/26, & 1/23), 2–5 pm
George Lozefski | NYBG | 192HRT302S

7 Tuesdays, 1/15–2/26, 10 am–1 pm
George Lozefski | NYBG | 193HRT302A

\$395/\$445

LANDSCAPE PLANTS: SUMMER AND FALL PERENNIALS TRACK 4

This course is designed for horticulturists and gardeners who are familiar with the basic culture of perennials. Learn the identifying characteristics, classification, scientific and common names, and landscape uses of approximately 60 summer- and fall-blooming native and non-native perennials and grasses. Please dress appropriately for outdoors.

P Prerequisite: *Introduction to Plant Science*

4 Wednesdays, 9/5–10/3 (no class 9/19),
10 am–1 pm
Jeanne Lapsker | NYBG | 191HRT337S

4 Saturdays, 9/8–9/29, 10 am–1 pm
Manny Grossman | NYBG | 191HRT337A

4 Tuesdays, 9/25–10/16, 10 am–1 pm
Michael Ruggiero | NYBG | 191HRT337B

\$219/\$239

LANDSCAPE PLANTS: FALL TREES AND SHRUBS TRACK 3

Explore how to identify and use major groups of shade trees and shrubs native to and hardy in our region in the landscape, including *Acer*, *Quercus*, and *Viburnum*, which are particularly ornamental in fall. The class goes out on the Garden grounds rain or shine. **P** Prerequisite: *Introduction to Plant Science*

7 Wednesdays, 9/26–11/7, 4:30–6:30 pm
Michael Ruggiero | NYBG | 191HRT331A

5 Sundays, 9/30–11/4 (no class 10/7), 10 am–1 pm
Michael Ruggiero | NYBG | 191HRT331B

5 Sundays, 9/30–11/4 (no class 10/7), 1:30–4:30 pm
Michael Ruggiero | NYBG | 191HRT331C

\$295/\$325

SUSTAINABLE GARDEN DESIGN TRACK 4

Learn the fundamental principles of design in this studio-oriented course, including site analysis, schematic and finished planting plans, and various garden styles. Study the effective use of color when selecting specific garden plants and learn various color schemes such as analogous or sequential, complementary, and monochrome. Visual presentations, discussions, and design projects combine practical information with the more theoretical aspects of garden design. Review flowering trees, shrubs, perennials, annuals, and bulbs. A list of required materials will be provided.

P Prerequisites: *Graphics I*, *Landscape Plants: Annuals*, *Landscape Plants: Spring Perennials* and *Landscape Plants: Summer and Fall Perennials*

7 Saturdays, 9/8–11/3 (no class 9/29 & 10/6),
10 am–12:50 pm
Laura McKillop | NYBG | 191HRT551

7 Mondays, 2/25–4/8, 6:15–9:05 pm
Laura McKillop | NYBG | 193HRT551A

\$485/\$535

PLANTS FOR LANDSCAPING TRACK 4

Examine the use of plants in the landscape with an emphasis on choosing the right plant for the right place, based on site-specific design and maintenance criteria. Learn aspects of special landscape values such as size, texture, color, and flowering and fruiting seasons. Review the trees, shrubs, groundcovers, annuals, and perennials suitable for landscaping in this region. Please dress for the weather and wear comfortable shoes.

6 Tuesdays, 9/25–10/30, 6:15–8:50 pm
Michael Ruggiero | NYBG | 191HRT358D

6 Fridays, 9/28–11/9 (no class 11/2), 10 am–12:40 pm
Valerie D'Antonio | NYBG | 191HRT358E

6 Thursdays, 10/11–11/15, 10 am–12:40 pm
Michael Ruggiero | NYBG | 192HRT358A

6 Saturdays, 10/13–12/1 (no class 11/3 & 11/24),
10 am–12:40 pm
Manny Grossman | NYBG | 192HRT358B

6 Saturdays, 3/30–5/11 (no class 4/20),
10 am–12:40 pm
Valerie D'Antonio | NYBG | 193HRT358C

\$395/\$435

LANDSCAPE PLANTS: BROADLEAVED EVERGREENS TRACK 4

Learn native and non-native broadleaved evergreens; become familiar with their cultural requirements, identification features, and landscape uses.

Learn how to incorporate this important group of plants into both naturalistic and formal landscape settings. Major plant groups studied include Ilex, *Rhododendron*, *Buxus*, and evergreen groundcovers. Classroom lectures are reinforced with walks on the Garden grounds, rain or shine. Dress for the weather.

P Prerequisite: *Introduction to Plant Science*

5 Fridays, 9/28–10/26, 10 am–12:15 pm
Manny Grossman | NYBG | 191HRT332A

5 Tuesdays, 10/2–10/30, 4:30–6:30 pm
Deanne Curtis | NYBG | 192HRT332S

5 Saturdays, 11/10–12/15 (no class 11/24),
10 am–12:15 pm
Vincent Simeone | NYBG | 192HRT332B

\$219/\$239

LANDSCAPE PLANTS: CONIFERS TRACK 3

Learn the identification, classification, and landscape use of native and non-native conifers that thrive in the northeastern United States. Major plant groups studied include *Chamaecyparis*, *Picea*, and *Pinus*.

Gain a working knowledge of the best species and cultivars of conifers for naturalistic and formal landscape designs. Come prepared to go outdoors rain or shine. **P** Prerequisite: *Introduction to Plant Science*

7 Tuesdays, 11/13–1/15 (no class 12/18,
12/25 & 1/1), 1:30–3:30 pm
Michael Ruggiero | NYBG | 192HRT333S

7 Wednesdays, 1/30–3/13, 2–4 pm
Michael Ruggiero | NYBG | 193HRT333B

\$295/\$325



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: *Introduction to Plant Science*

7 Wednesdays, 3/13–4/24, 4–6 pm
Marta McDowell | NYBG | 193HRT342A

7 Thursdays, 3/14–4/25, 4:30–6:30 pm
Michael Hagen | NYBG | 193HRT342S

\$295/\$325

DISEASE IDENTIFICATION & MANAGEMENT TRACKS 1, 2, & 3

Learn about common diseases of woody and herbaceous ornamentals and turfgrass caused by bacteria, fungi, nematodes, viruses, and abiotic factors and the cultural, biological, and least toxic strategies for their control. Discuss diagnoses of plant problems, including identification of disease- and nutrient-related symptoms. 📖 Prerequisite: *Introduction to Plant Science*

7 Wednesdays, 9/5–10/24, (no class 9/19),
4:30–7:30 pm
Trevor Hall | NYBG | 191HRT481S

7 Saturdays, 9/8–10/27, (no class 10/6),
10 am–1 pm
Mark Kokinchak | NYBG | 191HRT481A

\$475/\$495

PLANT PROPAGATION I: BASIC PRINCIPLES TRACK 1

Learn the principles and techniques of plant propagation by seed and cuttings. Explore the basics of sexual and asexual propagation, with attention to fruit development, seedling production, root initiation, stem and leaf cuttings, and layering. Materials included. 📖 Prerequisite: *Introduction to Plant Science* (or approval of the Program Coordinator)

7 Mondays, 9/17–11/5, (no class 10/8),
5:45–8:45 pm
Mobe Weinstein | NYBG | 191HRT411S

7 Tuesdays, 9/25–11/6, 5:45–8:45 pm
Nick Storrs | NYBG | 191HRT411P

7 Tuesdays, 1/29–3/12, 1:30–4:30 pm
Michael Ruggiero | NYBG | 193HRT411A

7 Mondays, 1/28–3/18, (no class 2/18),
10:30 am–1:30 pm
Michael Ruggiero | NYBG | 193HRT411B

\$479/\$525

**HORTICULTURAL TECHNIQUES: LANDSCAPE GARDENING** TRACK 2

Learn the basic techniques of landscape gardening, with an emphasis on ecologically appropriate practices. Topics include soil preparation, efficient water and fertilization practices, planting and transplanting, cultivation techniques, and maintaining healthy plants. Wear sturdy shoes, and come prepared to work outdoors. 📖 Prerequisites: *Introduction to Plant Science* and *Soil Science I*

7 Tuesdays, 3/12–4/23, 4:30–7:30 pm, and
Tuesday, 3/26, 10 am–4 pm, (rain date 3/27,
10 am–4 pm)
Mobe Weinstein | NYBG | 193HRT311P

\$455/\$495

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: *Introduction to Plant Science*

8 Tuesdays, 10/2–11/20, 4:30–7:05 pm,
Plus an all-day field trip Friday, 11/2, 8 am–4 pm
Marc Hachadourian | NYBG | 192HRT491S

\$549/\$605

LANDSCAPE MANAGEMENT TRACK 2

Examine the most important factors in the management and maintenance of commercial and residential landscapes using sustainable techniques. Learn to develop programs that reduce adverse effects on the environment, including alternative approaches to conventional lawn management. Focus on how to keep plants healthy, solve problems, and maximize resource allocation. 📖 Prerequisites: *Introduction to Plant Science* and *Soil Science II*

10 Wednesdays, 10/3–12/12, (no class 11/21),
1:30–4 pm, 1 Tuesday, 11/20, 2–4 pm
Kurt Morrell | NYBG | 192HRT443S

5 Tuesdays, 2/5–3/5, & 4 Thursdays,
2/7–2/28, 1–4 pm
Matthew Cook | NYBG | 193HRT443A

\$579/\$635

WEED IDENTIFICATION & MANAGEMENT TRACK 2

Learn how to identify and manage the common turf and landscape weeds found in residential and commercial sites. Examine a variety of weed control methods, including herbicides and non-chemical approaches. Study weed biology, biochemical pathways, and equipment calibration and care, as well as seasonal weed control programs. Field walks on the Garden grounds are included. Dress for the weather. 📖 Prerequisite: *Introduction to Plant Science*

5 Wednesdays, 10/3–11/7, (no class 10/24),
4:30 pm–7:30 pm
David Laswell | NYBG | 192HRT482S

\$355/\$395

HORTICULTURAL TECHNIQUES: GREENHOUSE PRACTICES TRACK 1

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. Wear work clothes and bring pruning shears to class. 📖 Prerequisites: *Introduction to Plant Science* and *Soil Science I*

6 Thursdays, 10/18–11/29, (no class 11/22),
4–7 pm
Nick Gershberg | NYBG | 192HRT312P

\$359/\$395

STARTING A SMALL LANDSCAPING BUSINESS TRACK 2

Discover the details of making a landscaping business work. Explore the type of business to create: design, installation, construction, maintenance, estimating or some combination. Learn about legal requirements, advertising, customer relations, and human resources. Discuss the monetary aspects: start-up costs, operating budget, tracking costs, and writing contracts. This course is a must for those who want to start their own business. Please bring lunch.

4 Fridays, 2/1–2/22, 10 am–1:20 pm
Jay Petrow | NYBG | 193HRT349

\$329/\$369

PLANT PROPAGATION II: APPLICATIONS TRACK 1

Through lectures, laboratories, and field trips, learn how 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 about tissue culture at the Garden's Pfizer Laboratory, and tour a retail nursery for a hands-on grafting project that you can take home. 📖 Prerequisite: *Plant Propagation I*

4 Tuesdays, 1/22–2/12, 5–8 pm, Plus an all-day
field trip TBA, 8 am–4 pm
Mobe Weinstein | NYBG | 193HRT412A

4 Mondays, 1/28–2/25, (no class 2/18), 5–8 pm,
Plus an all-day field trip TBA, 8 am–4 pm
Mobe Weinstein | NYBG | 193HRT412S

\$395/\$435

MATHEMATICS FOR HORTICULTURISTS

TRACK 2

This course is designed for horticulturists who are responsible for maintaining or directing the maintenance of outdoor landscapes. Methods of calculating areas, application rates for fertilizers, and amounts of soil amendments are reviewed during the first session, and a set of homework problems is analyzed during the second session.

3 Tuesdays, 2/19–3/5, 4:30–6:30 pm
Mobeo Weinstein | NYBG | 193HRT356

\$149/\$165

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. Please bring lunch.

Thursday & Friday, 3/7 & 3/8, 10 am–4:30 pm
Steve Dobossy | NYBG | 193HRT323

\$295/\$329

PRUNING PRINCIPLES AND PRACTICES

TRACKS 2 & 3

Through course study and hands-on pruning, you will learn the best tools, techniques, and timing to use when you prune to help shrubs, conifers, broadleaves, evergreens, and deciduous plants thrive. Explore how woody plant structure and physiology influence pruning. You'll learn how to create and maintain hedges and become familiar with authentic pollarding techniques. Come dressed for fieldwork, and bring bypass pruners if you have them.  Prerequisite: *Introduction to Plant Science*

6 Fridays, 10/5–11/16 (no class 11/2),
10 am–1 pm
Bill Logan | NYBG | 192HRT321A

6 Wednesdays, 10/31–12/12 (no class 11/21),
2–5 pm
Bill Logan | NYBG | 192HRT321B

6 Tuesdays, 11/6–12/18 (no class 11/20),
10 am–1 pm
Bill Logan | NYBG | 192HRT321C

6 Fridays, 1/25–3/1 (no class 2/1), 10 am–1 pm
Bill Logan | NYBG | 193HRT321P


6 Saturdays, 1/26–3/9 (no class 2/16), 1–4 pm
Samuel Bishop | NYBG | 193HRT321E

6 Thursdays, 2/7–3/14 (no class 2/14), 1–4 pm
Bill Logan | NYBG | 193HRT321S

\$385/\$425

 Exam on last class date.

TREE MANAGEMENT TRACKS 2 & 3

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.  Prerequisites: *Pruning Principles and Practices* and *Soil Science II*

7 Wednesdays, 1/2–2/13 (no class 1/13), & Monday, 1/7,
5:30–7:30 pm
Wayne Cahilly | NYBG | 193HRT422S

\$335/\$369

WINTER TREE IDENTIFICATION TRACK 3

Learn the basic techniques of winter tree identification using dormant-season characteristics. Buds, bark, fruit, and growth habits on deciduous plants as well as unique aspects of conifers are taught. Specialized techniques and tools of the trade are discussed. Dress for the weather.

 Prerequisite: *Introduction to Plant Science*

5 Thursdays, 1/10–2/7 (no class 1/10), 1–3 pm
Bill Logan | NYBG | 193HRT440

\$295/\$325

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 course by an ISA-certified arborist teaches you the basics of chainsaw use and care, sharpening, and bar tensioning. Please bring lunch.

Sunday, 2/3, 9 am–3:30 pm
Julian Picciano | NYBG | 193HRT308

\$145/\$159

ANNUAL AND PERENNIAL GARDEN MAINTENANCE

TRACK 4

Learn how to manage annual and perennial gardens using a variety of in-season and post-season maintenance practices. Topics include soil and weed management, watering, basic 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 *Landscape Plants: Perennials*

4 Sundays, 1/27–2/24 (no class 2/17), 10 am–12:40 pm
Deirdre Carsto | NYBG | 193HRT344

\$195/\$215

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

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

5 Thursdays, 1/3–1/31, and 3 Tuesdays,
1/8–1/22 (no class 1/29), 4:15–8:45 pm
Shawn Spencer | NYBG | 193HRT357S

\$715/\$785

ISA ARBORIST CERTIFICATION EXAM PREPARATION COURSE

Prepare for the International Society of Arboriculture (ISA) Certified Arborist exam by reviewing each chapter in the ISA Arborists' Certification Study Guide. Participants are strongly advised to read the study guide in advance; copies are available for purchase at NYBG Shop. Please bring lunch. Approved for CEUs.

Saturday, 10/27, 9 am–5:45 pm
Julian Picciano & Wayne Cahilly | NYBG
192HRT150

NYBG or ISA Members \$189/Non-Member \$209

ISA ARBORIST CERTIFICATION EXAM

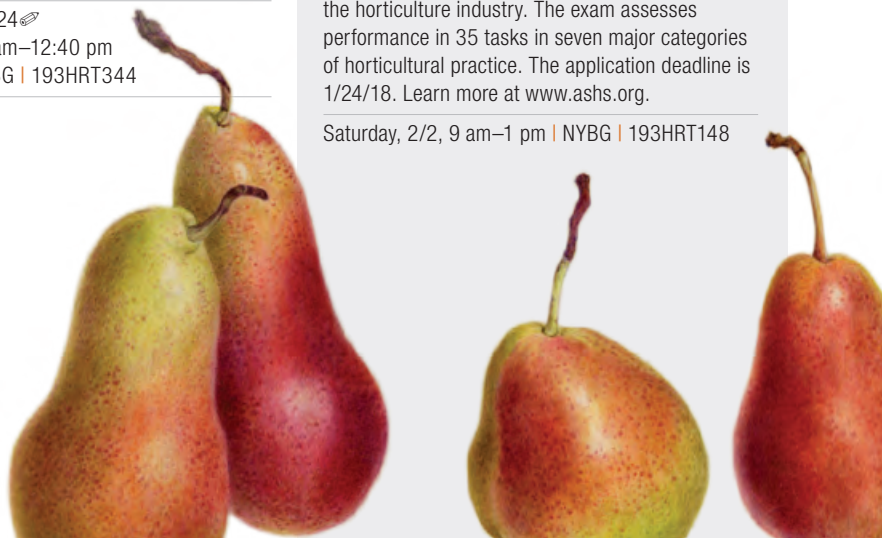
To register for the ISA exam, file an application and pay exam fees to the ISA by October 25 at isa-arbor.com, or by calling 217.355.9411. No exceptions, no walk-ins.

Saturday, 11/10, 8 am–12 pm | NYBG 192HRT152

ASHS-CERTIFIED HORTICULTURIST EXAM

The American Society for Horticultural Science (ASHS) offers a national credential validating the knowledge and skills of practitioners in the horticulture industry. The exam assesses performance in 35 tasks in seven major categories of horticultural practice. The application deadline is 1/24/18. Learn more at www.ashs.org.

Saturday, 2/2, 9 am–1 pm | NYBG | 193HRT148



HORTICULTURAL THERAPY



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

THE CERTIFICATE PROGRAM

The NYBG Horticultural Therapy Certificate Program helps students begin or complement their careers through an in-depth exploration of skills and innovative methods using plants and the growing environment to heal and rehabilitate people. Taught by practicing horticultural therapists, this program trains students in the design, implementation, and operation of programs for individuals and groups in a wide variety of health care settings and human services programs.

Upon completion of the program, students will:

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

CERTIFICATE REQUIREMENTS

Certificate students must complete 189 course hours (189 required + 8 site visit hours), plus a 100-hour internship. After completing a minimum of six courses, students should contact the Program Coordinator to arrange for their internship. To be considered for graduation on June 2, 2019, all internship documentation must be submitted to the Registration Office by May 10, 2019.

COURSE	CODE	HOURS	PAGE
Introduction to Horticultural Therapy	THR 301	15	42
Horticultural Therapy for Exceptional Youth	THR 402 P	15	42
Horticultural Therapy for Physical Rehabilitation	THR 403 P	15	42
Horticultural Therapy for Older Adults	THR 401 P	15	42
Fundamentals of Gardening	GAR 301	12	29
Horticultural Therapy in Behavioral Health Settings	THR 404 P	15	42
Horticultural Therapy Methods and Materials	THR 406 P	15	43
Activities Analysis for Horticultural Therapy	THR 407 P	15	43
Introduction to Plant Science	HRT 300 P	16	36
Plant Propagation I: Basic Principles	HRT 411 P	18	38
Garden Design for Special Populations	THR 408 P	15	43
Horticultural Therapy Program Management	THR 409 P	15	43
Horticultural Therapy Site Visits (see list below)		8	43
TOTAL REQUIRED HOURS		189	
SITE VISITS	CODE	HOURS	PAGE
NYU Langone Medical Center, Therapeutic Horticulture Services	THR 525 P	5	43
The HSNY's GreenHouse Program on Rikers Island	THR 537 P	6	43
Cardinal Cooke Health Center	THR 528 P	4	43

P Courses with a prerequisite before you can register



The Program Coordinator, Phyllis D'Amico, HTM, is a registered horticultural therapist with the American Horticultural Therapy Association and has worked in the field for more than 30 years. Phyllis created an award-winning horticultural therapy program for special needs students at the New Jersey Regional Day School in Newark, where she is the lead science teacher and horticultural therapist. Phyllis earned a Certificate in Horticultural Therapy from the Botanical Garden, where she has been an instructor for more than 25 years.

GET NYBG CERTIFIED

Given America's green movement, aging demographics, and evolving approaches to health care, Horticultural Therapy is one of the real growth sectors in hospitals, rehabilitation centers, schools, prisons, and mental health programs. The NYBG Certificate in Horticultural Therapy is known nationwide as marking the completion of important initial training toward professional registration with the American Horticultural Therapy Association.

Phyllis D'Amico, HTM, Program Coordinator

Anne Meore, HTR, Program Advisor

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

INTRODUCTION TO HORTICULTURAL THERAPY

Explore the plant-people relationships and scientific research that are the foundations of horticultural therapy. Learn about current programs that utilize horticultural therapy and the benefits of using plants and plant-related activities to reach cognitive, physical, psychological, and social goals for a variety of populations. Engage in activities for disability awareness and the development of therapeutic skills. Resources for professional development and the professional registration process are covered.

3 Saturdays, 9/15–9/29, 10 am–3:30 pm
Anne Meore, HTR | NYBG | 191THR301A

2 Saturdays, 1/12 & 2/2, 10 am–3:30 pm,
in Manhattan, and


1 Saturday, 1/26, 10 am–3:30 pm, at NYBG
Matthew Wichrowski, HTR | 193THR301B

3 Wednesdays, 2/6–2/20, 10 am–3:30 pm
Anne Meore, HTR | NYBG | 193THR301C

3 Saturdays, 3/30–4/13, 10 am–3:30 pm
Anne Meore, HTR | NYBG | 193THR301D

\$375/\$415


HORT THERAPY FOR EXCEPTIONAL YOUTH

Children and adolescents with special needs are the focus of this course. Gain an understanding of the causes and characteristics of various developmental, sensory, physical, behavioral, and learning disabilities. Learn to implement horticultural therapy for a wide variety of goals in programs for preschool-through high school-aged students. Explore the brain-based research and discover how horticultural therapy activities can aid in perceptual development and the learning process.  Prerequisite: *Introduction to Horticultural Therapy*

4 Wednesdays, 10/3–10/24, 5:30–9:15 pm
Phyllis D'Amico, HTM | NYBG | 192THR402

\$419/\$459


HORT THERAPY FOR PHYSICAL REHABILITATION

Sharpen your clinical skills while learning how horticultural therapy is utilized in a physical rehabilitation setting. Explore the team treatment process and learn about the various conditions treated in this setting. Etiology, diagnosis, and psychosocial effects are covered. Learn the role of the horticultural therapist in the treatment process, including assessment, documentation, and development of goals and objectives. Review case studies and develop treatment plans.  Prerequisite: *Introduction to Horticultural Therapy*

3 Saturdays, 10/27–11/17 (no class 11/10),
10 am–3:30 pm
Matthew Wichrowski, HTR | NYBG | 192THR403

\$419/\$459


HORT THERAPY FOR OLDER ADULTS

Older adults present an increasing need for therapeutic services. Learn about the physical, sensory, cognitive, psychological, and social aspects of aging and their implications for horticultural therapy programming. Explore how horticulture can be an important component in the various levels of geriatric care.  Prerequisite: *Introduction to Horticultural Therapy*

3 Saturdays, 12/1–12/15, 10 am–3:30 pm
Abby Jaroslow, HTR | NYBG | 192THR401

\$395/\$435

HORT THERAPY IN BEHAVIORAL HEALTH SETTINGS

Horticultural therapy is practiced in a multitude of behavioral health settings, including hospitals, day treatment programs, group homes, and in private practice. Learn the diagnostic criteria for major psychiatric conditions, including anxiety, mood, psychotic, cognitive, and substance abuse disorders. Review actual case studies and create treatment plans utilizing horticulture activities for specific needs.  Prerequisite: *Introduction to Horticultural Therapy*

4 Thursdays, 11/8–12/6 (no class 11/22),
5:30–9:15 pm
Erin Backus, HTR | NYBG | 192THR404

\$419/\$459

**COLLEGE CREDIT RECOMMENDATION**

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

The Horticultural Therapy Certificate Program is accredited by the American Horticultural Therapy Association (AHTA). Horticultural Therapy courses are eligible for college credit and can be applied toward voluntary Professional Registration through the AHTA. See page 59 for more information.



ACTIVITIES ANALYSIS FOR HORT THERAPY

For horticultural therapy to be most effective, activities must be structured so a client’s progress can be clearly measured and assessed. Using a variety of activities, develop a needs assessment and activity plan, write specific goals with measurable objectives, and practice leadership skills needed to work with groups and individuals. Please bring lunch. **Prerequisite:** *Horticultural Therapy for Physical Rehabilitation* (or approval of the Program Coordinator)

3 Saturdays, 2/23–3/9, 10 am–3:30 pm
Abby Jaroslow, HTR | NYBG | 193THR407

\$419/\$459

GARDEN DESIGN FOR SPECIAL POPULATIONS

Gardens can be catalysts for learning, health, inclusion, and therapy. Gain the knowledge, expertise, and tools to create, renovate, and evaluate both interior and exterior spaces to ensure effective gardens. Learn the latest research in health care garden design, common design principles, and necessary considerations and accommodations for target populations. **Prerequisite:** *Horticultural Therapy for Physical Rehabilitation* (or approval of the Program Coordinator)

4 Wednesdays, 3/13–4/3, 6–9 pm, and 1 Saturday, 3/16, NYBG, 10 am–1 pm

Nancy Minich, HTR, RLA | Manhattan | 193THR408

\$395/\$435

HORT THERAPY METHODS AND MATERIALS

Evaluate tools, equipment, structures, and techniques used by participants in horticultural therapy activities. Design and construct adaptive tools and assistive devices through problem-solving activities. Expand your plant-selecting skills for specific therapeutic programming needs as you explore the collections and gardens at NYBG. Learn preventive approaches to safety in all horticultural therapy settings.

Prerequisite: *Horticultural Therapy for Physical Rehabilitation* (or approval of the Program Coordinator)

3 Wednesdays, 4/10–4/24, 5:30–8:30 pm, and 1 Saturday, 4/27, 10 am–3:30 pm

Phyllis D’Amico, HTM, and John Beirne, HTR
NYBG | 194THR406

\$419/\$459

HORT THERAPY PROGRAM MANAGEMENT

Learn how to design and implement a horticultural therapy program in the private or public sector. Gain skills in developing program proposals, writing protocols, establishing evaluation methods and record-keeping policies, and managing staff and volunteers. Topics in business practices will include budget development and management, legal aspects of business establishment, and fundraising.

Prerequisite: *Behavioral Health Settings* (or approval of the Program Coordinator)

3 Saturdays, 5/4–5/18, 10 am–3:30 pm
Pat Czarnecki, HTR | NYBG | 194THR409

\$419/\$459



SITE VISITS

Tour some of the organizations practicing Horticultural Therapy in the New York area. Get a close-up look on their day-to-day practices.

Introduction to Horticultural Therapy is the prerequisite for all site visits. Please bring lunch.

THE HORT SOCIETY OF NEW YORK’S GREENHOUSE PROGRAM ON RIKERS ISLAND

Hands-on healing and learning through horticulture takes place at HSNY’s GreenHouse program on Rikers Island. Designed and built by inmates and their instructors, the garden features a native woodland, nursery, and vegetable and herb gardens. HSNY’s horticultural therapists will give an overview of the program, and then you will spend the rest of the morning with student-inmates at the GreenHouse.

Thursday, 11/1, 6:30 am–1 pm
Hilda Krus, HTR | Off site | 192THR537A

Thursday, 3/7, 6:30 am–1 pm
Hilda Krus, HTR | Off site | 193THR537B

\$135/\$149

NYU LANGONE MEDICAL CENTER, THERAPEUTIC HORTICULTURE SERVICES, MANHATTAN

The focus of this individualized intensive training is on physical medicine and rehabilitation—history, philosophy, and team functions. Participate in horticulture treatment sessions that deal with patient functioning, treatment goals, and precautions.

Tuesday, 10/30, 8:30 am–1 pm
Matthew Wichrowski, HTR, and staff | Off site
192THR525A

Tuesday, 12/4, 8:30 am–1 pm
Matthew Wichrowski, HTR, and staff | Off site
192THR525B

\$135/\$149

CARDINAL COOKE HEALTH CENTER

Visit a 720-bed chronic and long-term care facility that serves geriatric patients, patients with AIDS, Alzheimer’s disease, dementia, Huntington’s disease, and patients on short-term rehabilitation. Students will accompany the horticultural therapist on rounds to a variety of units. Lunch is available on-site. Travel directions are mailed with your confirmation letter.

Tuesday, 3/19, 10:30 am–2:30 pm
Donna Arabian, HTR | Off site | 193THR528

\$135/\$149

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 along with the skills and confidence to start your own business. And the Garden offers 250 inspiring acres of sustainable, functional landscapes for up-close, in-depth study. Take a single class for pleasure or pursue a professional Certificate in Landscape Design.

THE CERTIFICATE PROGRAM

The NYBG Landscape Design Certificate Program prepares students for creative careers as landscape designers. Outstanding instructors who are working professionals cover every step of the design process, from landscape history to site analysis and design development.

Upon completion of the program, students will:

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

CERTIFICATE REQUIREMENTS

COURSE	CODE	HOURS*	PAGE
TIER 1 – INTRODUCTORY CLASSES			
Landscape Design History	LAN 301	24	46
Graphics I	LAN 311	24	47
Landscape Measurement	LAN 340 P	12	46
Landscape Plants: Fall Trees and Shrubs	HRT 331 P	12	37
Landscape Plants: Spring Trees and Shrubs**	HRT 334 P	12	—
Plants for Landscaping	HRT 358	16	37
TIER 2			
Landscape Design I: Site Analysis and Schematic Design	LAN 401 P	24	47
Landscape Design II: Design Development	LAN 402 P	24	47
Estimating	LAN 380 P	9	48
Graphics II	LAN 411 P	24	47
Grading	LAN 421 P	24	49
Site Materials and Details	LAN 422 P	24	47
TIER 3			
Drainage	LAN 425 P	12	48
Graphics III	LAN 417 P	24	47
Landscape Design III: Planting Design	LAN 403 P	24	47
Professional Practice for Landscape Designers	LAN 485 P	12	48
Landscape Design IV: Design and Construction	LAN 520 P	33	48
Portfolio and Presentation Skills	LAN 555 P	15	48
TOTAL REQUIRED HOURS		349	

*Course hours do not include exam hours

**Courses offered in the Spring–Summer Catalog

P Courses with a prerequisite before you can register

For professional organizations, see p. 59.

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.



The Program Coordinator, Susan Cohen, FASLA, RLA, is principal of Susan Cohen Landscape Architect in Greenwich, Connecticut. She lectures and writes on landscape topics, and coordinates NYBG's *Landscape Design Portfolios Lecture Series*, now in its 20th year. A graduate of Smith College, Susan earned a Certificate in Landscape Design at NYBG and a BS in Landscape Architecture from City College of New York. She is a member of the Garden's Board of Advisors and has designed several exhibition gardens for NYBG. Her recent book, *The Inspired Landscape*, is published by Timber Press.



**GET NYBG
CERTIFIED**

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

Susan Cohen, Program Coordinator
William Harris Einhorn, Program Advisor

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



INTRO TO LANDSCAPE DESIGN

Gain an introduction to the terminology, concepts, and basic principles of landscape design through lectures and simple two-dimensional exercises. This course is recommended for students with little or no background in design who want to design for their own home or who are considering a Certificate.

3 Mondays, 9/17–10/1, 10 am–1 pm
Daryl Beyers | NYBG | 191LAN100C

3 Tuesdays, 9/25–10/9, 6:15–9:15 pm
Kimberly Tryba | Manhattan | 191LAN100D

3 Mondays, 10/15–10/29, 10 am–1 pm
Daryl Beyers | Manhattan | 192LAN100A

3 Saturdays, 11/3–11/17, 10 am–1 pm
Kimberly Tryba | Manhattan | 192LAN100B

3 Saturdays, 2/23–3/9, 10 am–1 pm
Kimberly Tryba | Manhattan | 193LAN100C

3 Thursdays, 3/7–3/21, 10 am–1 pm
Sheri Forster | New Canaan Nature Center,
New Canaan, Conn. | 193LAN100D

\$185/\$205

CITY ROOF DESIGN

Throughout the world, city roofs are becoming greener and used year-round, offering a significant opportunity for landscape designers. Learn the special requirements and challenges of roof gardens and discuss roof garden horticulture, maintenance, and technology, including the basics of design.

Monday, 9/17, 6:15–8:15 pm
Hanna Packer | Manhattan | 191LAN175A

\$59/\$65

BOTANICAL EXPLORERS

The amazing explorations of the Age of Discovery led to a wealth of previously unknown plants—all of which needed to be accurately named and described for scientific purposes. Follow the Perry Expedition to Japan and Lewis and Clark's trek across the western U.S., and learn about the discovery of many ornamental plants and whom they honor with their names.

3 Thursdays, 11/1–11/15, 6:15–8:15 pm
Jennifer Bakshi | Manhattan | 192GAR366

\$145/\$159 *Certificate Elective*

DYNASCAPE: CAD FOR LANDSCAPE DESIGNERS

Learn the various tools and applications of this software package for landscape designers. Topics include: basic skills for developing professional landscape plans, making base plans from surveys, techniques for quick estimates, and utilizing the online plant database. You must have basic computer skills and bring a PC laptop to class, not a Mac.

8 Fridays, 1/18–3/8, 10 am–1 pm
William Harris Einhorn, RLA | NYBG | 193LAN427

\$555/\$609 (There is an additional software fee of \$125. Special cancellation policy applies.)

NEW! DIGITAL DESIGN TOOLS

Explore the latest iOS apps to improve your ability to visually convey your design ideas to your clients. An Apple product whiz turned landscape designer, Cat Morris will provide an overview of tools you can use, including Adobe Capture (use photographs to create assets to use in your digital plans) and Morpholio Board (assemble mood boards to present to clients). She'll also discuss how to integrate these tools into your existing workflow. Bring your iPhone or iPad as you'll have time to play with the apps in class.

Saturday, 1/26, 11 am–3 pm
Cat Morris | NYBG | 193LAN221

\$95/\$105

NEW! INTRO TO WATERCOLOR FOR LANDSCAPE DESIGNERS

Legendary designers from Beatrix Farrand to Laurie Olin have used watercolor on their plans to captivate clients. In this hands-on workshop, you'll learn basic watercolor techniques, including how to mix colors and use different brushes. We'll practice painting on pre-drawn scenes the instructor will provide. In later sessions, you may choose to paint atop your own plans, provided they are printed on watercolor paper. No previous watercolor experience necessary!

4 Thursdays, 2/7–2/28, 2–5 pm
Linda M. Nemerlut | NYBG | 193LAN216

\$289/\$319

NATURALISTIC LANDSCAPE DESIGN

Conventional structured landscapes are giving way to looser, more naturalistic designs based on the existing landscape's particular potential. Using images of his own six-acre garden, which—like horticulture itself—strikes a balance between art and science, Duncan Brine, a principal landscape designer at Garden Large, presents an approach that elicits responses from the site rather than imitating or imposing a traditional concept or style.

Friday, 2/15, 10 am–12 pm
Duncan Brine | NYBG | 193LAN226

\$59/\$65

LANDSCAPE DESIGN HISTORY

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

Study theories and principles that have shaped the design of landscapes from antiquity to the present. Explore Eastern and Western garden traditions. Survey all types of gardens and landscapes, including corporate and public spaces, through visual presentations, assigned readings, projects, and classroom discussion. Landscape designs will be considered in the context of the times and societies in which they were created.

9 Tuesdays, 9/25–11/27, (no class 11/20),
6:15–9:15 pm
Mark Bunnell, RLA | Manhattan | 191LAN301A

9 Thursdays, 9/20–11/15, 10 am–1 pm
Linda Chisholm | NYBG | 191LAN301B

9 Tuesdays, 1/8–3/5, 10 am–1 pm
Paula Capps | NYBG | 193LAN301C

9 Tuesdays, 1/8–3/12, (no class 1/15),
6:15–9:15 pm
Mark Bunnell, RLA | Manhattan | 193LAN301D

9 Mondays, 3/18–5/13, 6:15–9:15 pm
Mark Bunnell, RLA | Manhattan | 193LAN301E

9 Wednesdays, 3/20–5/15, 10 am–1 pm
Caitlin Merritt | NYBG | 193LAN301F

\$595/\$655 *Certificate Requirement*

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. A basic understanding of geometry and trigonometry is helpful. Dress for the weather.

4 Saturdays, 9/8–9/29, (rain date 10/13) 10 am–1 pm
Wayne Cahilly | NYBG | 191LAN340C

4 Sundays, 4/28–5/19, 1:30–4:30 pm
Wayne Cahilly | NYBG | 194LAN340A

\$295/\$329 *Certificate Requirement*

 Exam on last class date.



GRAPHICS I

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

Graphics are essential in developing and communicating your design ideas. Practice various graphic techniques and learn how to organize and render landscape plans on paper for optimal presentation to clients. Work with a range of drawing materials and drafting equipment. Homework is required.

8 Thursdays, 9/27–11/15, 6:15–9:15 pm
Gustavo Capparelli | NYBG | 191LAN311A

8 Wednesdays, 10/3–11/28 (no class 11/21),
10 am–1 pm
William Harris Einhorn, RLA | NYBG | 192LAN311B

8 Thursdays, 10/4–12/13 (no class 10/18, 11/8,
& 11/22), 6:15–9:15 pm
Jennifer Nitzky | Manhattan | 192LAN311C

8 Tuesdays, 1/8–3/5 (no class 2/19), 6:15–9:15 pm
Gustavo Capparelli | NYBG | 193LAN311D

8 Mondays, 1/7–3/11 (no class 1/21 & 2/18),
6:15–9:15 pm
Jennifer Nitzky | Manhattan | 193LAN311F

8 Thursdays, 1/10–2/28, 10 am–1 pm
William Harris Einhorn, RLA | NYBG | 193LAN311E

\$595/\$655 *Certificate Requirement*

LANDSCAPE DESIGN I: SITE ANALYSIS AND SCHEMATIC DESIGN

Turning a vision into a plan is the designer's first challenge. Learn how to analyze existing landscapes and formulate the programmatic and functional requirements of a design project. Translate these into schematic design solutions. Take part in class discussions and critiques, and present projects. This is the first of four successive studio courses. Extensive out-of-class design homework is required. **P** Prerequisites: *Landscape Design History* and *Graphics I*

8 Thursdays, 11/29–1/31, (no class 12/20 & 12/27),
10 am–1 pm
Daryl Beyers | NYBG | 192LAN401P

8 Wednesdays, 1/9–2/27, 6:15–9:15 pm
Michelle Lin-Luse | Manhattan | 193LAN401B

\$575/\$635 *Certificate Requirement*

GRAPHICS II

Sharpen your graphic skills as you create a file of symbols and styles to draw upon for future professional use. Techniques for black-and-white and color rendering, sheet layout, section elevations, and perspectives are covered. **P** Prerequisite: *Graphics I*

8 Tuesdays, 9/25–11/13, 10 am–1 pm
Gustavo Capparelli | NYBG | 191LAN411A

8 Tuesdays, 9/25–11/13, 6:15–9:15 pm
William Harris Einhorn, RLA | NYBG | 191LAN411B

8 Mondays, 1/7–3/11 (no class 1/21 & 2/18),
10 am–1 pm
William Harris Einhorn, RLA | NYBG | 193LAN411C

\$595/\$655 *Certificate Requirement*

LANDSCAPE DESIGN II: DESIGN DEVELOPMENT

Apply basic design concepts to site-specific problems, focusing on the process of design development. Start with a conceptual design, then progress through the schematic phase, leading to a preliminary design solution. Examine the relationships of landscape elements and materials to the design process. **P** Prerequisites: *Landscape Design I* and *Graphics II*

8 Wednesdays, 9/12–11/7 (no class 9/19),
10 am–1 pm
Leslie Needham | NYBG | 191LAN402A

8 Wednesdays, 3/13–5/1, 6:15–9:15 pm
David McConnell | NYBG | 193LAN402B

\$575/\$635 *Certificate Requirement*

SITE MATERIALS AND DETAILS

Learn the basic principles of constructing residential landscape features such as walks, steps, simple decks, garden structures, walls, and benches. Study landscape construction standards, techniques, and commonly used materials, and learn to draft construction details. **P** Prerequisite: *Graphics II*

8 Mondays, 9/17–11/12 (no class 10/8),
6:15–9:15 pm
Gustavo Capparelli | NYBG | 191LAN422A

8 Mondays, 3/18–5/6, 10 am–1 pm
William Harris Einhorn, RLA | NYBG | 193LAN422B

\$575/\$635 *Certificate Requirement*

GRAPHICS III

Build and expand upon your graphic presentation skills to create professional presentations to clients. Trimble SketchUp, a 3D sketching software program, is the focus of this advanced graphics class. Laptop computers (PC or Mac) with SketchUp are required. **P** Prerequisite: *Graphics II*

8 Fridays, 9/14–11/2, 10 am–1 pm
William Harris Einhorn, RLA | NYBG | 191LAN417B

8 Wednesdays, 1/9–2/27, 10 am–1 pm
William Harris Einhorn, RLA | NYBG | 193LAN417A

\$595/\$655 *Certificate Requirement*

LANDSCAPE DESIGN III: PLANTING DESIGN

Through a series of design assignments, learn how to prepare planting plans for a variety of projects. Explore the significance of site conditions as well as plant form, texture, color, and ecological associations. Learn to develop plans that are practical, appropriate, and aesthetically satisfying.

P Prerequisites: *Landscape Design II*, *Graphics III*, and *Plants for Landscaping*. Recommended: *Landscape Plants: Fall Trees and Shrubs* and *Landscape Plants: Spring Trees and Shrubs*

8 Thursdays, 9/13–11/8 (no class 9/20), 10 am–1 pm
Alexis Gagne | NYBG | 191LAN403B

8 Wednesdays, 1/9–2/27, 10 am–1 pm
Alexis Gagne | NYBG | 193LAN403B

\$575/\$635 *Certificate Requirement*

Ecological Design Retreat with Edwina von Gal

Join Edwina von Gal—environmentalist, designer, and founder of the Perfect Earth Project—at Marsh House, her private home on Long Island. As you tour her gardens, she'll point out the ecologically sound methods she uses to keep her plants and soil healthy, ones that you can replicate at home. She'll also walk you through the environmental design process, highlighting how to enhance a property to be a beautiful sanctuary that's integrated with the local ecosystem. A light organic lunch by a local chef on her gorgeous deck with a view of Accabonac Harbor is included!

Saturday, October 13, 11 am–4:30 pm
(rain date October 14)

Edwina von Gal | Marsh House | 192LAN903

\$145/\$159



Photo © Alan Pollok-Morris



Endsleigh Cottage, Devon ©John Phibbs



Montgomery Place Vista ©Michael D. Garber

Picturesque: Celebrating Sublime Nature

European ideas of beauty expanded in the 18th century, giving rise to a landscape design form that became known as “Picturesque,” an aesthetic quality inspired by majestic, awe-inspiring scenes in rugged nature. In this pair of talks, noted garden historians will explore how the Picturesque ideal impacted the work of Englishman Humphry Repton, as well as the designs of Andrew Jackson Downing and Frederick Law Olmsted.

THE UNLIKELY GENIUS OF HUMPHRY REPTON

It was never the aim of Humphry Repton to be great. After famed English gardener Capability Brown died, Repton took over his business, hoping to make an easy living, trotting out landscapes in the familiar Brown tradition. But as advocates of the Picturesque style of beauty gained popularity, Repton's work and his dedication to the Brownian style came under direct assault. Yet with every set back, the work this non-descript man produced became greater, more complex, and more profoundly charged. Indeed, the magnificent works of his last years—Endsleigh, Ashridge, and Woburn Abbey are among the survivors—are comparable to the best of Brown's achievements and directly influenced the great American gardens.

Friday, 11/16, 10–11:30 am
John Phibbs | NYBG | 192LAN217

\$25/\$29

GRADING

Grading serves both practical and aesthetic purposes in landscape design. Learn the principles of grading and how to create grading plans for your landscape projects. Through classroom discussions, exercises, and weekly assignments, students progress from mastering the use of contours and profiles to the creation of more complex grading plans including walkways, terraces, structures, and retaining walls.

Prerequisites: *Landscape Measurement* and *Graphics II*

8 Mondays, 10/22–12/10, 10 am–1 pm
William Harris Einhorn, RLA | NYBG | 192LAN421A

8 Fridays, 3/15–5/3, 10 am–1 pm
William Harris Einhorn, RLA | NYBG | 193LAN421B

\$575/\$635 *Certificate Requirement*

DESIGNING FOR DEMOCRACY

In the first half of the 19th century, a social revolution was born in the Hudson River Valley that would help define the character of the young American nation. Landscape designer Andrew Jackson Downing was the leader of this movement, sparking a passion for landscape gardening among the burgeoning middle class. His successor Frederick Law Olmsted continued to execute this vision as he transformed the landscapes of urban cities across the country. The author of the newly published *The History of Landscape Design in 100 Gardens*, Linda A. Chisholm will show how the Picturesque style was the ideal expression of A. J. Downing's and Olmsted's values, interests, and commitments. Book signing to follow.

Friday, 12/7, 10–11:30 am
Linda Chisholm | NYBG | 192LAN218

\$25/\$29

PROFESSIONAL PRACTICE FOR LANDSCAPE DESIGNERS

Before you launch your own landscape design and installation practice, there are many business aspects you need to consider. Topics include attracting clients, preparing proposals, pricing, purchasing and installing plants, and strategies for success. Prerequisite: *Landscape Design III*

4 Wednesdays, 10/3–10/24, 5:15–8:15 pm
Bruce G. Eckerson, PLA | NYBG | 192LAN485

4 Thursdays, 2/7–2/28, 10 am–1 pm
Jennifer Nitzky | NYBG | 193LAN485B

\$295/\$325 *Certificate Requirement*

ESTIMATING

Learn the critical components for compiling accurate estimates for landscape projects, including materials, labor, overhead, and contingencies. Learn how to use estimates to stay profitable and compete successfully in today's business climate. Prerequisite: *Landscape Design II*

4 Mondays, 1/7–2/4 (no class 1/21), 10 am–1 pm
Bruce G. Eckerson, PLA | NYBG | 193LAN380A

4 Mondays, 1/7–2/4 (no class 1/21), 2–5 pm
Bruce G. Eckerson, PLA | NYBG | 193LAN380B

\$219/\$239 *Certificate Requirement*

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*

11 Thursdays, 9/13–11/29 (no class 11/22), 5:15–8:15 pm

Liz Pulver | NYBG | 191LAN520A

11 Thursdays, 3/7–5/16, 3–6 pm

Liz Pulver | NYBG | 193LAN520B

\$829/\$909 *Certificate Requirement*

PORTFOLIO AND PRESENTATION SKILLS

Create visually compelling 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. Both print and electronic media presentations will be discussed. Prerequisite: *Landscape Design III*

5 Tuesdays, 3/12–4/9, 6:15–9:15 pm

Blythe Yost | NYBG | 193LAN555

\$379/\$415 *Certificate Requirement*

DRAINAGE

Explore the importance of managing storm water runoff utilizing low-impact design techniques. Through lectures, demonstrations, in-class projects, and assignments, learn to identify potential effects of runoff and how to develop a drainage plan to meet the needs of each site. Also, learn to recognize and solve problems of subsurface drainage. Please bring lunch on Saturday. Prerequisites: *Landscape Measurement* and *Landscape Design I*

2 Wednesdays, 3/13 & 3/20, 3–6 pm, & 1 Saturday, 3/16, 10 am–4:30 pm

TBA | NYBG | 193LAN425

\$295/\$325 *Certificate Requirement*

Exam on last class date.

Landscape Design Students & Alumni Series

Come hear award-winning and nationally renowned professionals share their expertise. These popular afternoon lectures coincide with monthly morning meetings of the Landscape Design Students and Alumni Association. All are welcome to register.

TUESDAYS, 1–3 PM, AFTER LDSA MEETINGS

Registration fee for each class: \$29/\$35.
Register for three or more over the phone
(718.817.8747) and receive a 10% discount.

For more information about the LDSA, see p. 59.



Continuing Education Units are available.

DESIGNING FOR DELIGHT

Matthew Urbanski will describe his approach to highlighting delight as a design imperative and how this translates into creating memorable environments for play. The core impulse behind garden-making is the pursuit of delight. Similarly, landscapes of play exist solely to give children delight through the fundamental human activity we call play. Like delight, play takes many forms, as will be illustrated in the range of projects discussed.

Matthew Urbanski, a Principal of Michael Van Valkenburgh Associates, has worked for the firm for over three decades where he has been part of the leadership for almost every major project the firm has completed, including Brooklyn Bridge Park, Maggie Daley Park (Chicago), A Gathering Place for Tulsa, and Teardrop Park (Manhattan). He lectures regularly on design of play spaces in the landscape and how spatial complexity, particularly when combined with plants and other natural materials, supports an integration of active and imaginative play.

Tuesday, 10/23, 1–3 pm | NYBG | 192LAN265A

EXTRAORDINARY WETLAND MANAGEMENT

William Kenny, an expert in ecological planning and design, will examine a variety of factors that are essential to extraordinary wetland management. He'll highlight the successes from restoration projects his firm has completed on relatively small, suburban residential properties, including ones that incorporate creative stormwater management.

For over 25 years, **William Kenny, PWS, RLA**, has created, restored, and managed wetland habitats, in addition to designing and implementing management plans for invasive plant species and stormwater. He is the owner of William Kenny Associates, which provides Landscape Architecture and Ecological Consulting services, and NATIVE, a native plant nursery. His firm is currently involved with the restoration of 36 acres of coastal forest and meadow in Westport, Connecticut.

Tuesday, 11/27, 1–3 pm | NYBG | 192LAN265B

MINDFULNESS & JAPANESE SPATIAL CONCEPTS

Why do we feel contemplative in Japanese gardens and architecture? Can our physical environment foster mindfulness? Yoko Kawai, lecturer at Yale School of Architecture, examines how Japanese spatial concepts such as *ma* (in-between-ness), *utsuroi* (transience), and *yugen* (the unknown) create the mind-body-space relationship that is instrumental to mindfulness. Elements of tea gardens and teahouses are introduced as examples.

Yoko Kawai, Ph.D., is a Principal of Penguin Environmental Design, which focuses on incorporating landscape into architecture. She co-founded Mirai Work Space Alliance that brings "Space for Well-Being" to contemporary workplaces. She has published articles in various scholarly journals, including *Journal of Green Building* and *Journal of Asian Architecture and Building Engineering*.

Tuesday, 12/18, 1–3 pm | NYBG | 192LAN265C

THE DESIGNER'S EYE

Drawing on her experiences designing more than 45 New York City public spaces, and a lifetime of challenges in her own garden, Lynden B. Miller shares how she looks at a site—what's there and what could be—and how she visualizes what plants are needed to achieve her goals. Her training as a painter is a key to educating her eye for garden design. Her lushly illustrated talk will showcase practical ideas for successful gardens that look good in every season. The purpose of her work is to give city dwellers beauty and pleasure in well-maintained public places.

Lynden B. Miller rescued and restored The Conservatory Garden in Central Park in 1982. Believing that good public open spaces can change city life, she has since designed scores of gardens and parks, including Bryant Park, Madison Square Park, Wagner Park in Battery Park City, and the perennial borders at NYBG. Her book, *Parks, Plants and People: Beautifying the Urban Landscape*, won the American Horticultural Society 2010 National Book Award.

Tuesday, 1/22, 1–3 pm | NYBG | 193LAN265D

PLANTING FOR A CHANGING CLIMATE

As temperatures rise and precipitation patterns shift, it is essential for designers to consider how to select, place, and care for plants that will thrive in today's conditions, as well as tomorrow's. Landscape architect, plantsman, and author Travis Beck discusses how to create dynamic and resilient plant communities that will flourish in the landscape for years to come.

Travis Beck is Director of Horticulture at Mt. Cuba Center in Delaware, where he oversees the care and evolution of over 1,000 acres of native plant gardens, landscaped grounds, and natural lands. Prior to Mt. Cuba, Travis managed large landscape design and construction projects at NYBG. His book, *Principles of Ecological Landscape Design*, applies current scientific thinking to the design and management of successful, sustainable landscapes.

Tuesday, 2/19, 1–3 pm | NYBG | 193LAN265E



SAKONNET GARDEN: CURRENT DESIGN EXPERIMENTS

Sakonnet Garden is a long-term personal experiment with plants and planting design. While working in New York, John Gwynne and his partner, Mikel Folcarelli, built a hidden garden in coastal Rhode Island that evolved into a series of intimate garden rooms, each reflecting an experimental approach to light, space, color, rare plants, and whimsical discovery. Gwynne will share the outside-the-box design and horticultural objectives behind his admittedly "eccentric labor of love."

Plantsman/Designer **John Gwynne**, trained as a landscape architect, was formerly head of design for the Wildlife Conservation Society and continues his involvement with innovative global conservation and local meadow restoration. His discussion will range from pushing woodland horticulture to using new native and naturalized plants, including mosses, and finding the effective plants for pollinator gardening and wild meadows.

Tuesday, 3/19, 1–3 pm | NYBG | 193LAN265F

PHOTOGRAPHY

Experiment with light, composition, and motion or familiarize yourself with new technology to up your photography game!



GOODBYE DIGITAL CAMERA...HELLO IPHONE!

Learn practical techniques and tips for using the iPhone camera. Discover the best apps for photo taking, special effects, editing, post-processing, and more. The best way to organize and share your photos and videos via email, e-cards, and social media will be demonstrated. Bring your charged iPhone, Apple ID, and its password.

Monday, 9/17, 10 am–1 pm
Donald Gambino | NYBG | 191GWP151A

Saturday, 2/9, 10 am–1 pm
Donald Gambino | NYBG | 193GWP151B

Saturday, 2/9, 2–5 pm
Donald Gambino | NYBG | 193GWP151C

\$59/\$65

INTRODUCTION TO BLACK & WHITE PHOTOGRAPHY

Douglas Dubler, who has worked with Ansel Adams, will use a variety of arresting images to discuss how to handle light when shooting, and how to process your images with the free Nik Collection plug-in. He'll discuss techniques to use so your photographs achieve rich blacks, stark whites, and all the greys in between. The first session will include time on grounds to shoot, and the second will be an opportunity to review your work and discuss challenges and successes faced in the field. Digital SLR cameras preferred.

2 Sundays, 9/23 & 10/14, 2–5 pm
Douglas Dubler | NYBG | 191GWP208B

\$109/\$119

ABSTRACT PHOTOGRAPHY

Experiment with composing abstract images using botanical subjects, taking inspiration from Georgia O'Keeffe. An expert at honing in on beautiful details from years working in high-end fashion, Douglas Dubler will show you how to use the lines, shapes, patterns, textures, and colors of petals, leaves, stems, and vines to create intriguing pictures. Where we shoot will depend on what's in season and on exhibition. Digital SLR cameras preferred.

Saturday, 9/29 (rain date Sunday, 9/30), 2–5 pm
Douglas Dubler | NYBG | 191GWP211

\$59/\$65

NEW! PHOTOGRAPHING BIRDS

Discover a variety of techniques that will help you create stunning photos of the birds you spot. Photographer Clay Taylor will discuss what type of light, vantage point, and gear will help you produce shots that are most true to life. We'll also discuss best practices for composition, including when to fill your frame with the bird or and when to include the background to paint a scene.

Saturday, 10/13, 10 am–2 pm
Clay Taylor | NYBG | 192GWP279

\$85/\$95 *Certificate Elective*

FUNDAMENTALS OF DIGITAL PHOTOGRAPHY

This is perfect class for anyone new to a digital camera with manual controls. Our father/daughter duo will walk you through basic camera settings and discuss how to see like a photographer and manage available light. Each class includes an introductory lecture and demonstration, a field session in the Garden to practice techniques with your own camera (and tripod if you have one), and a review of your work at the end of the day. Please bring a lunch.

3 Saturdays, 10/20–11/10 (no class 10/27),
10 am–2:30 pm

Wayne Cahilly & Meghan Cahilly | NYBG | 192GWP202

\$265/\$289

NEW! LIGHT, SHADOW, AND THE GOLDEN HOUR

Light fundamentally influences the mood and composition of your photos. Explore how to make the best use of different kinds of natural light by optimizing your camera settings, consciously choosing what time of day you shoot, and using shadows, a fill light, or a reflector. We'll take pictures on the grounds and then discuss the results. All levels welcome.

Sunday, 10/21 (rain date Sunday, 10/28), 3–6 pm
David Samuel Stern | NYBG | 192GWP238

\$59/\$65

CAPTURING MOTION

Incorporating movement in a photograph can bring an image to life, emphasizing a shower of falling leaves or a bird's flight. You'll experiment with leaving your camera lens open longer to capture motion, and learn how the amount of light in your environment affects your decision. We'll look at a variety of images for inspiration, before going into the Thain Family Forest to capture the movement of our waterfall. Please bring a tripod and a camera that allows you to manually adjust your shutter speed.

Sunday, 10/28 (rain date 11/4), 2–5 pm
John Maggioletto | NYBG | 192GWP214

\$59/\$65



©Jeffery Falk

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.

Tuesday, 10/30, 9 am–3 pm
Jeffrey Falk | NYBG | 192GWP928

\$109/\$119

NEW! THE ART OF INTUITIVE PHOTOGRAPHY

Award-winning photographer Mindy Veissid emphasizes an intuitive approach to taking pictures, one where open awareness precedes technical perfection and aims to cultivate photography's meditative potential. You will practice being more mindful of your surroundings, attuned to the subjects that draw your attention and learn to use your senses to guide you to the most meaningful images. All levels and camera types are welcome.

Saturday, 11/17, 11 am–2 pm
Mindy Veissid | NYBG | 192GWP280A

Thursday, 3/14, 6–9 pm
Mindy Veissid | Manhattan | 193GWP280B

\$59/\$65

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—and without fancy equipment. Walk away from this session with a clear focus on how to frame the world around you.

Tuesday, 12/4, 2–5 pm
Douglas Dubler | NYBG | 192GWP224A

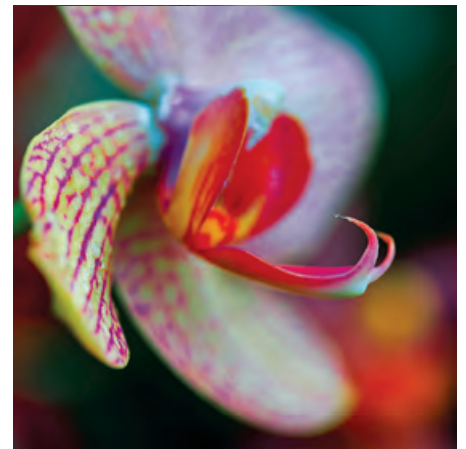
\$59/\$65

STACKED IMAGE WORKSHOP

Stacked image photography allows you to create images of extraordinary depth, sharpness, and detail. In this hands-on workshop using your own digital camera (manual focus required), you'll take a series of photos of the same subject, focusing each shot on a different area. You will then use a special software to combine these photos into one final breathtaking image. You will walk away from this class with all the techniques, equipment, and software tips you need to continue refining this process at home. Please bring your laptop to class, with the free 30-day trial software specified in your email confirmation already downloaded.

Thursday, 1/24, 10 am–4 pm
Jeffrey Falk | NYBG | 193GWP213

\$109/\$119



©Douglas Dubler



©Clay Taylor



©Mindy Veissid

URBAN NATURALIST



In this teeming metropolis we call home, nature is all around us whether we pause to carefully observe it or not. Amaranth springs through the cracks in our sidewalks; migrating warblers rest in our parks; horseshoe crabs scuttle onto our beaches to breed. As a NYBG Urban Naturalist, you will have a unique opportunity to explore these diverse habitats while discovering the keys that unlock their many secrets.

THE CERTIFICATE PROGRAM

The NYBG Urban Naturalist Certificate Program equips you with the observation, identification, and documentation skills you need to become a citizen scientist and an effective environmental steward. Led by Mike Feller and a team of expert naturalists, you'll use NYBG grounds and select New York City Parks as living labs to investigate the interrelationships between species and discover how our urban environment sustains those ecosystems.

NYBG Urban Naturalists will learn to keenly observe the natural world using a variety of scientific tools. You'll also create scientifically useful records—written, hand-drawn, and photographs—of your observations. Current NYBG Urban Naturalists are using the knowledge and skills they gained to develop their own projects, help manage invasive species in local parks, and document NYC plant species as volunteers in NYBG's EcoFlora project.

FIELD STUDY PROJECT

In order to receive a Certificate, you must submit a final project is an in-depth study of a natural site of your choosing, which should be done based on observations made over many months. Your study will include the geology and human history of your patch, 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 can be obtained from the Registration Office.

In order to be considered for graduation, you must submit a project proposal for approval to Mike Feller, the Program Coordinator. If you would like to graduate in June 2019, the final project due date is April 26, 2019.

CERTIFICATE REQUIREMENTS

COURSE	CODE	HOURS	PAGE
Introduction to Natural History	NAT 300	12	54
Natural History of Birds	NAT 321	12	54
Natural History of Insects**	NAT 322	9	—
Urban Ecology Field Study Workshop**	NAT 323 P	9	—
<i>Two of the four Native Flora courses:</i>		24	—
Native Flora in Autumn	BOT 331		54
Native Flora in Winter	BOT 332		54
Native Flora in Spring**	BOT 333		—
Native Flora in Summer**	BOT 334		—
<i>Elective Credits</i> (See current electives below)		36	
TOTAL REQUIRED HOURS		96	

ELECTIVES

COURSE	CODE	HOURS	PAGE
Hawk Watch and Fall Migration	NAT 313 P	4	55
Winter in the Bronx: Seals, Loons, and Owls	NAT 314 P	4	55
Field Sketching	NAT 400	6	55
Amphibians	NAT 319	6	54
The Unseen World with Eugenia Bone	NAT 342	1.5	55
Mannahatta and Beyond with Eric Sanderson	NAT 349	3	55
Photographing Birds	GWP 279	3	54
The Science of Tree Communication	BOT 385	6	55
Autumn Mushrooms	BOT 368	6	55
Pressing Plants for Art & Science	BOT 338	12	54
The Hidden World of Lichens	BOT 313	3	55
Forest Ecology**	BOT 326	12	—

**Courses offered in the Spring–Summer Catalog

P Courses with a prerequisite before you can register



The Program Coordinator, Mike Feller, spent 31 years as Chief Naturalist for NYC Parks Natural Resources Group (NRG), where he led a team of 25, supervised the funding, design, and execution of myriad ecological restoration programs, and oversaw NRG's environmental education programs. Mike spearheaded the creation of the Forever Wild Program that established 51 nature preserves throughout New York City. His photos of urban nature have appeared in many books, magazines, and corporate offices.

**QUESTIONS? CONTACT MIKE FELLER AT
NATCOORDINATOR@NYBG.ORG**

“Tagging monarch butterflies was amazing, as were all the other hands-on exercises. We had a great balance of lecture, activities, and exploration. Very few things have made me as happy as the NYBG Urban Naturalist Program.”

—CAROLYN SMITH,
2017 NYBG Urban Naturalist

NEW! INTRODUCTION TO NATURAL HISTORY

Naturalists are keen observers of the world around them and have played an integral role in the evolution of scientific thought. Now you can be one too! Learn how to identify plants and animals using a 10x hand lens, dichotomous keys, and field guides. We'll discuss ecological processes and how they are impacted by the urban environment. Significant time will be spent on outside, including tagging monarch butterflies in Marine Park, Brooklyn. Novices and seasoned nature-lovers alike are welcome!

4 Saturdays, 9/22–10/20 (no class 10/6)
(rain date 10/27), 10 am–1 pm
Mike Feller | NYBG & Marine Park, Brooklyn
191NAT300

\$295/\$325 *Certificate Requirement*

NEW! NATURAL HISTORY OF BIRDS

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

4 Tuesdays, 9/25–10/16 (rain date 10/23),
10 am–1 pm
Ken Chaya | NYBG & Central Park | 191NAT321

\$295/\$325 *Certificate Requirement*

NATIVE FLORA IN AUTUMN

Spend time surrounded by blazing fall foliage, as you learn to distinguish between the wide variety of our native Northeastern flora—both woody and herbaceous. Goldenrods and asters take center stage at this time of year, but can be difficult to identify. Equipped with a 10X power hand lens, you'll use a plant key to identify these plants on the Garden grounds, as well as other wildflowers, shrubs, and trees.

4 Thursdays, 9/27–10/18, 10 am–1 pm
Nancy Slowik | NYBG | 191BOT331

\$295/\$325 *Certificate Requirement*

NATIVE FLORA IN WINTER

Learn to recognize the characteristics of native and common woody plants in the winter. While in their dormant, leafless state, trees and shrubs can be identified by bud types, leaf scars, fruit remnants, and other distinguishing marks. Specimens examined in class are supplemented by forays around the Garden. Dress for the weather.

4 Fridays, 1/11–2/1, 10 am–1 pm
Nancy Slowik | NYBG | 193BOT332

\$295/\$325 *Certificate Requirement*



©Lisa Whitmer

NEW! AUTUMN MUSHROOMS

Fall is the best time to hunt for edible fungi right here in NYC, including honey, oyster, and hen-of-the-woods mushrooms. Paul Sadowski, 25-year veteran of the New York Mycological Society, will show you how to identify many different species and their look-alikes, where to find them, and how to cook or preserve them. We'll embark on mushroom hunts together on Garden grounds, as well as in NYC Parks as the season permits.

2 Thursdays, 10/4 & 10/11, 10 am–1 pm
Paul Sadowski | Manhattan | 192BOT368A

2 Wednesdays, 10/17 & 10/24, 10 am–1 pm
Paul Sadowski | NYBG | 192BOT368B

\$145/\$159 *Certificate Elective*

NEW! AMPHIBIANS

Amphibians represent the crucial evolutionary step between fish and land-dwelling animals. Elle Barnes and Nicole Fusco, whose doctoral research focuses on wild salamanders and frogs, will take you out on grounds to identify both terrestrial and aquatic amphibians living in the Thain Family Forest and the Bronx River. You'll examine the role they play in the environment, the survival challenges they currently face, and what's being done to save them.

2 Wednesdays, 10/3 & 10/10, 10 am–1 pm
Elle Barnes and Nicole Fusco | NYBG | 192NAT319

\$125/\$139 *Certificate Elective*

NEW! PHOTOGRAPHING BIRDS

Discover a variety of techniques that will help you create stunning photos of the birds you spot. Photographer Clay Taylor will discuss what type of light, vantage point, and gear will help you produce shots that are most true to life. We'll also discuss best practices for composition, including when to fill your frame with the bird or when to include the background to paint a scene.

Saturday, 10/13, 10 am–2 pm
Clay Taylor | NYBG | 192GWP279

\$85/\$95 *Certificate Elective*

PRESSING PLANTS FOR ART & SCIENCE

From the field to the folder, this course covers the essentials of making museum-quality preserved plant specimens suitable for research, education, and decoration. Learn techniques and skills for collecting and preserving plants of your interest, wild or cultivated. Build your own herbarium, useful as a permanent record and study-aid for other Botany and Horticulture courses—or for artistic appreciation.

4 Wednesdays, 1/9–1/30, 5–8 pm
Daniel Atha and Sheranza Alli | NYBG | 193BOT338

\$365/\$395 *Certificate Elective*

Save 10%! Register for INTRO TO NATURAL HISTORY, NATURAL HISTORY OF BIRDS, NATIVE FLORA IN AUTUMN together.

Tues, Thurs, & Sat, 9/22–10/20, 10 am–1 pm
191NAT900 | \$795/\$875

FIELD SKETCHING

Take your naturalist game to the next level by learning how to sketch. Drawing asks you to slow down and closely observe what you see, which helps you identify unfamiliar species and investigate ecological connections. Botanical artist and avid birder Frank Guida will show you tips and tricks to accurately capture nature's important details. *No previous drawing experience required.*

2 Sundays, 10/21 & 10/28 (rain date 11/4),
10 am–1 pm
Frank Guida | NYBG | 192NAT400

\$145/\$159 *Certificate Elective*

THE SCIENCE OF TREE COMMUNICATION

Trees may appear to be strong and silent, but they can “talk”—to one another, to other plants, and to animals and insects. Discover how trees communicate via chemical signals in the air (to warn each other of insect attacks), as well as through complex fungal networks underground to transfer nutrients and resources to one another (sometimes to assist sick trees).

2 Tuesdays, 12/4 & 12/11, 6–9 pm
Steve Kutos | Manhattan | 192BOT385

\$125/\$139 *Certificate Elective*

THE HIDDEN WORLD OF LICHENS

Rock pimples, fog fingers, old man's beard—their common names are amusing, but lichens are among Earth's most amazing and oldest living things, and display incredibly beautiful colors and shapes. They grow on bark, rock, and barren soil, and 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.

Thursday, 2/21, 6–9 pm
James Lendemer, Ph.D. | Manhattan | 193BOT313

\$75/\$85 *Certificate Elective*



Illustration: Grey Shag Mushroom ©Margaret Saylor, NYBG Instructor



©Ken Chaya

FIELD TRIPS**NEW! HAWK WATCH AND FALL MIGRATION**

Every autumn, raptors, butterflies, and dragonflies hug the New England coast as they migrate south. When the wind comes from the northwest, migrants turn left over Pelham Bay Park, and thousands of hawks, falcons, osprey, and eagles can be seen from the Orchard Beach Parking Lot. Bring a folding chair, lunch, and binoculars. If the hawks are not aloft we will walk the woods and wetland trails in search of wading birds, waterfowl, and insects.

P Prerequisite: *Introduction to Natural History*

Sunday, 10/14, 10 am–2 pm
Mike Feller | Pelham Bay Park | 192NAT313

\$85/\$95 *Certificate Elective*

NEW! WINTER IN THE BRONX: SEALS, LOONS, AND OWLS

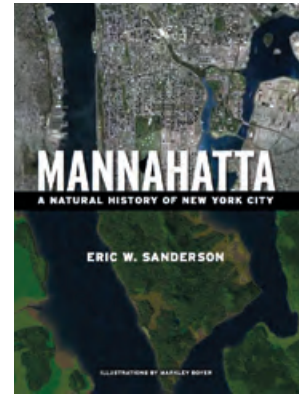
Explore the rocky coastline in search of harbor seals basking in the sun, loons, and other wintering waterfowl. Then move into the woods to try to spot the owls' “fly out” at dusk. **P** Prerequisite: *Introduction to Natural History*

Saturday, 12/15 (rain date Sunday, 12/16) 2–6 pm
Mike Feller | Pelham Bay Park | 192NAT314

\$85/\$95 *Certificate Elective*

GUEST EXPERTS**NEW! MANHATTAN AND BEYOND WITH ERIC SANDERSON**

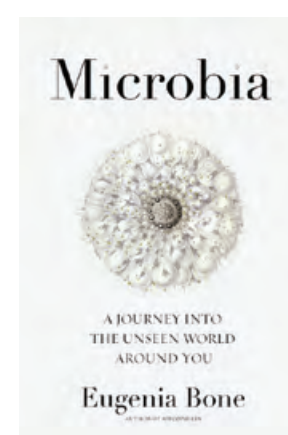
In their twin projects *Mannahatta* and *Welikia*, Eric Sanderson and his team have spent decades researching, mapping, and reimagining the diverse ecosystems that blanketed New York



City before Europeans arrived. In this interactive workshop, you'll work with both 18th-century maps and 21st-century technology to try your hand at geo-referencing local spots. We'll also go onto the Garden grounds to spot tell-tale signs of lost natural features. Eric Sanderson is a senior conservation ecologist at the Wildlife Conservation Society and author of *Mannahatta: A Natural History of New York City*.

Friday, 10/12, 10 am–1 pm
Eric Sanderson, Ph.D. | NYBG | 192NAT349

\$75/\$85 *Certificate Elective*

NEW! THE UNSEEN WORLD WITH EUGENIA BONE

Microscopic organisms are the hidden force behind so much in our lives. They make the weather and the soil; they live inside almost every one of our cells; they created the air we breathe. They are

even a key to our health and mood. A celebrated naturalist and the author of *Mycophilia* and *Microbia*, Eugenia Bone explains how everything that is alive is connected to everything else, if you learn to look at life from the microbial point of view.

Saturday, 2/9, 11 am–12:30 pm
Eugenia Bone | NYBG | 193NAT342

\$25/\$29 *Certificate Elective*

WELLNESS

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



TAI CHI FOR PEACE OF MIND AND BODY

This ancient, meditative Chinese exercise teaches relaxation, balance, and self-defense with an emphasis on correct body posture and spinal alignment. Students become relaxed, physically stronger, and ultimately healthier in both mind and body.

8 Saturdays, 9/22–11/17 (no class 10/6), 10–11 am
Robert Torres | NYBG | 191WEL102A

8 Saturdays, 1/26–3/23 (no class 2/16), 10–11 am
Robert Torres | NYBG | 193WEL102B

\$119/\$129

FOREST BATHING

When surrounded by the tranquil beauty of nature, the mind naturally becomes quiet and peaceful. This is reflected in Japanese Zen, where silent meditation in serene environments is a core element of the practice. Buddhist monks, trained in both Japanese Zen and in Therāvada meditation, will teach us how to meditate and lead us on a journey of inner exploration: practicing sitting and walking meditation in NYBG's Thain Family Forest.

Tuesday, 10/23, 10 am–1 pm
Bhante Suddhaso | NYBG | 192WEL145B

Saturday, 11/10, 10 am–1 pm
David Listen | NYBG | 192WEL145C

\$55/\$59

ESSENTIAL OIL PERFUME WORKSHOP

Perfume can be traced back thousands of years to an Ancient Egyptian tradition, beloved by Cleopatra. Discover the history of perfume and the therapeutic benefits of essential oils in this hands-on workshop. Learn scent-blending techniques and how to identify and keep perfume notes. Formulate three unique signature scents using wax, carrier oils, and essential oils, and take home one solid perfume, a 2-oz. aromatherapy spray, and a roll-on perfume.

Saturday, 10/13, 11 am–2 pm
Ursula Basch | Manhattan | 192WEL134A

Saturday, 2/2, 11 am–2 pm
Karine Gordineer | NYBG | 193WEL134B

Saturday, 2/23, 11 am–2 pm
Ursula Basch | Manhattan | 193WEL134C

\$95/\$105

INTRO TO HERBAL MEDICINE

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

Saturday, 10/27, 11 am–1 pm
Karine Gordineer | NYBG | 192WEL109

\$65/\$69

NEW! NATURAL BODY SCRUB

Help your skin glow! Explore the versatile and surprisingly low-cost array of body scrubs you can make with a few simple ingredients. Learn which oils are the most hydrating, which botanicals tighten and which soothe inflammations, and when to choose which specific sugar or salt for your exfoliant. Walk away with 2–3 different scrubs of your own creation.

Saturday, 11/3, 2–4 pm
Amandine Peter | NYBG | 192WEL156A

Tuesday, 2/19, 6–8 pm
Donna Gomirato | Manhattan | 193WEL156B

\$65/\$69

SOAPMAKING WORKSHOP

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

Sunday, 11/4, 11 am–2 pm
Elizabeth Scholl | NYBG | 192WEL143A

Saturday, 1/26, 11 am–2 pm
Elizabeth Scholl | NYBG | 193WEL143B

\$109/\$119

CANDLEMAKING WITH ESSENTIAL OILS

Freshen your home while experiencing the soothing benefits of essential oils. Create custom-scented aromatherapy soy candles using essential oils to invigorate, calm, or heal. Learn the differences between petroleum-based paraffin candles and synthetic essential oil candles commonly sold in stores. Create and take home two 4-oz. container candles and two 3-oz. votive candles.

Saturday, 12/15, 11 am–2 pm
Karine Gordineer | NYBG | 192WEL138A

Saturday, 3/2, 11 am–2 pm
Karine Gordineer | Manhattan | 193WEL138B

\$95/\$105

NEW! HERBALISM: BEYOND THE BASICS

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

4 Saturdays, 1/12, 2/9, 3/9, & 4/6, 11 am–4:30 pm
Karine Gordineer | NYBG | 193WEL161

\$425/\$469

Wellness classes are presented for informational purposes only and are not intended for self-medication.

DIY Herbal Skin Care Saturday

NOVEMBER 17 | Midtown Education Center, Manhattan

Explore how to make a variety of products to keep your skin hydrated and looking fantastic from head to toe!

10:30 am–12 pm

NEW! NATURAL LIP BALM & BODY BUTTER

Whether you use shea, mango, or cacao as a base, it's easy to make the perfect moisturizer for your body or your lips that will last for months without a preservative. Experiment with adding natural ingredients to vary the scent and texture of your product. You'll take home a body butter and a lip balm of your own creation.

Donna Gomirato | 192WEL141B | \$65/\$69

12:45–2:15 pm

NEW! FACE SERUM WITH ESSENTIAL OILS

With their anti-inflammatory and anti-bacterial properties, essential oils help us look and feel amazing. Learn how your skin works and what it needs to stay healthy. Discover which essential oils will best meet your needs and match skin type. You'll work with several carrier oils as you make your own personalized face serum.

Amandine Peter | 192WEL141C | \$85/\$95

MEDICAL CANNABIS

Some 29 states have legalized the medical use of marijuana. Proponents tout it as a safe, effective treatment for symptoms of cancer, HIV, MS, Parkinson's, and other conditions—while opponents see many physical and social risks. Explore the science behind this controversial plant, as Dr. Dahmer takes you through a brief history of the endocannabinoid system, its effects on the brain, its associated risks and disorders, and an overview of medical cannabis—today and in the future—in New York and across the country.

Friday, 1/25, 10 am–11:30 pm
Stephen Dahmer, M.D. | NYBG | 193WEL128A

Thursday, 3/14, 6–7:30 pm
Stephen Dahmer, M.D. | Manhattan | 193WEL128B

\$35/\$39



3–5 pm

NEW! THE HEALING POWERS OF TURMERIC

Used in India for over 4,500 years, turmeric is a powerful remedy for your body—both inside and out. An anti-oxidant with anti-bacterial and anti-inflammatory properties, this spice can help clear up acne, decrease UV damage, and reduce scarring. Ayurvedic practitioner Sriram Moorthy shares the rich history of this powerful spice, then shows you how to make a turmeric facial mask and body wash to take home.

Sriram Moorthy | 192WEL141D | \$65/\$69

All Three Sections:
192WEL141A | \$195/\$215

HERBAL SPA BOTANICALS

Pamper yourself! In this hands-on session, learn to create facial steams, body scrubs, and moisturizers for a home spa experience. Discover which garden plants and pantry ingredients are beneficial for your skin. You'll come away with products you've customized for your own skin type, the recipes and know-how to make them again!

Sunday, 2/3, 11 am–2 pm
Elizabeth Scholl | NYBG | 193WEL135

\$109/\$119

NEW! MUSHROOMS: PHARMAS & PARIAS

Discover the healing properties of some of our local mushrooms, including Reishi, Turkey Tail, and Hen-of-the-Woods. We'll also discuss the toxicity of some of our more nefarious characters: Angel of Death, Death Cap, the Alcohol Poisoner, and various hallucinogens. (And yes, psychoactivity is officially considered a poisoning.)

2 Wednesdays, 2/13 & 2/20, 11 am–2 pm
Paul Sadowski | Manhattan | 193WEL152

\$95/\$105

ACADEMIC POLICIES & PROCEDURES

GENERAL COURSE INFORMATION

COURSE LEVELS

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

COURSES WITH PREREQUISITES

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

WORK-STUDY OPPORTUNITIES

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

SCHOOL POLICIES FOR CERTIFICATE PROGRAMS

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

Satisfactory Academic Progress Policy:

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

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

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

Grades are available via your online student account. Call 718.817.8747 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 2019 ceremony will be held on Sunday, June 2. If you expect to complete your Certificate requirements or enroll in all remaining classes by June this year, you must inform the Manager of Student Services in writing at adultedgraduation@nybg.org by February 23. You will be informed if you are eligible for a Certificate by April 20. Call the Registration Office at 718.817.8747 with any questions.

Transcripts

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

Privacy

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

STATE LICENSING AND ACCREDITATION

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

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

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

CONTINUING EDUCATION UNITS, PROFESSIONAL SOCIETIES, AND ACADEMIC PROGRAMS

Continuing Education Units (CEUs)

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



Tri-State Botanical Artists of NYBG (TSBA)

The Tri-State Botanical Artists of NYBG (TSBA) is a lively group of over 40 artists who meet to engage in critiques, monthly art challenges, a sketchbook exchange, and discussions about relevant topics. We invite all current Certificate students and alumni to join us! TSBA is recognized as an ASBA Circle. Meetings are free and held at 11 am on the last Tuesday of each month at NYBG. Please contact Jeanne Reiner reinerj@hotmail.com or Susan Sapanara ssapanara@gmail.com for more information.

Landscape Design Students and Alumni Association (LDSA)

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

American Horticultural Therapy Association (AHTA)

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

American 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

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 membership and more information visit asba-art.org

Association of Professional Landscape Designers (APLD)

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

Department of Environmental Conservation (DEC)

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

The Guild of Natural Science Illustrators (GNSI)

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

International Society of Arboriculture (ISA)

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

Northeast Organic Farming Association (NOFA)

NOFA offers CEUs to Accredited Organic Land Care Professionals (AOLCPs) who have made a commitment to practice in accordance with NOFA Organic Land Care Standards, to pursue ongoing education in methodology, and to create ecologically sound landscapes and living environments for their clients. For a complete list of NYBG courses that qualify visit nofa.org

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

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



SCHOOL OF PROFESSIONAL HORTICULTURE

The New York Botanical Garden's School of Professional Horticulture offers a comprehensive, full-time, two-year program combining the challenge of hands-on training with academic study to educate you to become a skilled and knowledgeable professional horticulturist. Our graduates enjoy a nearly 100% job placement rate. Alumni have successful careers in public and private sectors, including estate management, landscape design/build firms, and public parks and gardens.

As a student in the School of Professional Horticulture you:

- Develop a strong foundation in horticultural and botanical sciences, including native plants, green roofs, urban agriculture, sustainability, greenhouse management, and ecological garden design.
- Get hands-on training with NYBG's expert horticulturists and botanists.
- Visit nurseries, public and private gardens, ecological sites such as the New Jersey Pine Barrens, and celebrity estates.
- Attend lectures and meetings with horticulture and landscape experts from around the world.

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

Applications are due August 1 for the program beginning the following January. For a catalog, visit nybg.org/edu/soph or call 718.817.8797.

REGISTRATION

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

Classes are filled in the order that payments are received. Many classes fill quickly, so please sign up early to avoid disappointment!

Confirmations

Registration confirmations will be sent same day via email.

GENERAL INFORMATION

Entrance to the Garden on Class Days

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

Storm Closings | *Class cancellations due to inclement weather will be rescheduled.*

For closings due to weather, check our website or call 718.817.8747 at the times noted below for a recorded message on the status of your class:

7:30 am for classes beginning at 9–11:45 am

10:30 am for classes beginning at 12–3 pm

1 pm for classes beginning at 3:15–8 pm

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

A refund will be issued if your class is cancelled due to low enrollment. If you wish to withdraw from a course before it begins, you must notify the Registration Office **TEN FULL BUSINESS DAYS BEFORE THE FIRST CLASS MEETING**. We will issue a refund minus a \$10 processing fee.

If you must withdraw fewer than ten days before the first class meeting:

No refunds will be granted for course levels 0–299 and 700–999

A 75% refund minus a \$10 processing fee will be granted for course levels 300–699

Please note: Floral Design materials fees will not be refunded fewer than 5 business days before class begins.

Holidays | *NYBG observes the following 10 holidays:*

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

Accessibility

The New York Botanical Garden is accessible to persons with disabilities. Please ask about special needs 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

Library

The LuEsther T. Mertz Library keeps Adult Education required reading on reserve, has study space with WiFi available, and offers help with class assignments. Visit nybg.org/library or contact libref@nybg.org for more information.

Gift Certificates

Need the perfect gift for that plant-loving someone? Purchase a gift certificate 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

718.817.8747 Registration Office
M–F 9 am–5 pm

In Person

Drop by the Registration Office in the Watson Education Building, Room 306, or at the Midtown Education Center.

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



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