Welcome to 2019!

Spring comes alive at the Garden, and Adult Ed is ready to help you blossom—with a full slate of courses in gardening, botany, art, design, and urban nature, along with speakers who will share deep insights into the many ways we can learn from, protect, and live with our world of plants.

Starting in March, you won’t want to miss The Tree Dialogues, a series of compelling conversations with bestselling authors Richard Powers, Peter Wohlleben, and our own Horticulture instructor Bill Logan. In mid-month, we premiere the breathtaking documentary Beatrix Farrand’s American Landscapes.

In June we kick off the Garden’s major exhibition, The Living Art of Roberto Burle Marx, with a symposium exploring the genre-spanning genius of the Brazilian modernist artist, landscape architect, and conservationist. And later that month, acclaimed British garden designer/writer Noel Kingsbury arrives for a special workshop: The Rabbit’s Eye View.

So browse the catalog... you’re sure to find something enriching and fun. Whether your passion is working with a vase, in a garden, at an easel, or on a drawing board, NYBG Adult Ed is here for you! Join us and spread the #plantlove.

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.

Want to jump on the fast track? Take advantage of an opportunity to really accelerate your progress in Floral Design, Botanical Art, Landscape Design, Horticultural Therapy, or Gardening by enrolling in one of our Summer Intensive Programs. You can complete up to half the requirements toward your Certificate in just a few weeks! For more information, see the Summer Intensive sections throughout the catalog.

ABOUT THE COVER: The LuEsther T. Mertz Library and artwork 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.
THE TREE DIALOGUES

10:30–11:30 am | Ross Hall, NYBG

With the world’s forests under increasing threat, this series invites award-winning and best-selling authors for compelling conversations on critical environmental issues, eco-activism, indigenous practices, plant intelligence, and more. Join us for fascinating insights into the many ways we can learn from, protect, and live with trees and the natural world.

The Overstory: A Conversation with Richard Powers

Richard Powers has authored 12 novels, received a MacArthur Fellowship and the National Book Award, and is a Pulitzer Prize and four-time National Book Critics Circle Award finalist. His latest work, The Overstory, is a sweeping, passionate novel of activism and resistance that is also a song of praise to the natural world. In a series of interlocking stories ranging from antebellum New York to the late-20th-century Pacific Northwest timber wars, trees bring small lives together into larger acts of war, love, loyalty, and betrayal.

Lecture followed by conversation with Todd Forrest, NYBG Arthur Ross Vice President for Horticulture and Living Collections.

Thursday, March 7 | 193HRT811 | $25/$29

The Secret Wisdom of Nature: A Conversation with Peter Wohlleben

Peter Wohlleben, a career forester in his native Germany, is best known as author of the international bestsellers The Hidden Life of Trees and The Inner Life of Animals. The Secret Wisdom of Nature completes the trilogy, exploring the vast natural systems that make life on Earth possible. Describing the interplay between animals and plants, highlighting new scientific discoveries, and sharing insights from his decades of observing nature, Wohlleben helps us recapture our sense of awe and see our world with new eyes.

Lecture followed by conversation with Maria Popova, founder/editor of Brain Pickings, MIT Futures of Entertainment Fellow, and author of the newly-released, Figuring.

Wednesday, March 13 | 193HRT908 | $25/$29

Sprout Lands: A Conversation with William Bryant Logan

William Bryant Logan is an arborist on the faculty at NYBG and the award-winning author of four books. His most recent, Sprout Lands: Tending the Endless Gift of Trees, is a poetic and practical global journey to rediscover and celebrate the lost traditions of tree pruning that sustained human life and culture for millennia, a time when the responsible, reciprocal relationship between humans and trees created the healthiest, most sustainable, most diverse woodlands we have ever known.

Lecture followed by conversation with Robin Wall Kimmerer, Ph.D., SUNY Distinguished Teaching Professor, College of Environmental Science and Forestry, and author of Braiding Sweetgrass.

Tuesday, May 21 | 194HRT909 | $25/$29

Register for all three: 194HRT912 | $69/$75

Support provided by Reba and Dave Williams

Humansities Institute Presents

World Premiere Documentary: Beatrix Farrand’s American Landscapes

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

Beatrix Farrand was one of the most influential 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 Abby Aldrich Rockefeller Garden in Maine, NYBG’s Peggy Rockefeller Rose Garden, Dumbarton Oaks, and many more.

Beatrix Farrand’s American Landscapes, a new film from director Stephen Ives and horticulturist Anne Cleves Symmes, explores the innovative ideas of this distinctive American voice in landscape design. Host and narrator Lynden B. Miller, designer of many New York City public landscapes, is our guide to Farrand’s extraordinary legacy, and joins leading garden experts, historians, and scholars who take us through the groundbreaking designer’s many iconic works.

After the screening, Ives and Miller will be joined by Dumbarton Oaks Director of Garden and Landscape Studies John Beardsley in a conversation moderated by Peter Crane, President of the Oak Spring Garden Foundation.

Member $10/Non-Member $20 | 193LAN816

250th Anniversary of Alexander von Humboldt with Andrea Wulf

Friday, April 19, 10:30 am–12 pm | Ross Hall, NYBG

Andrea Wulf’s 2015 bestseller The Invention of Nature: Alexander von Humboldt’s New World, was a New York Times 2015 Top Ten Book and won literary honors around the world. To mark the 250th anniversary of the revolutionary naturalist-explorer-author’s birth, Wulf returns to the Garden, to introduce The Adventures of Alexander von Humboldt—a brilliantly evocative graphic novel developed in collaboration with Lillian Melcher.

Focusing on Humboldt’s five-year expedition in South America, Wulf and Melcher incorporate pages of his own diaries, sketches, drawings, and maps to create an intimate portrait of the radical biologist who predicted human-induced climate change, fashioned poetic narrative out of scientific observation, and influenced iconic figures such as Bolivar, Jefferson, Darwin, and Muir. Don’t miss this captivating talk with Wulf and Melcher that kicks off Earth Day Weekend at NYBG!

Member $10/Non-Member $20 | 194HRT910

Exhibition Symposium: Roberto Burle Marx—A Total Work of Art

Friday, June 7, 10:30 am–12:30 pm | Ross Hall, NYBG

To mark the opening of the Garden’s major exhibition, The Living Art of Roberto Burle Marx, this symposium explores the breadth and genre-spanning creativity of the Brazilian modernist master, celebrating his work as an innovative artist, landscape architect, and conservationist.

MODERATOR:
Edward J. Sullivan, Ph.D., Exhibition Curator; Professor of the History of Art and Deputy Director, Institute of Fine Arts, New York University

SPEAKERS:
Raymond Junes, FASLA, Founder and Principal of Raymond Junes, Inc.
Catherine Seavitt Nordinson, AASLA, AIA, Associate Professor of Landscape Architecture at CUNY’s City College; Principal, Catherine Seavart Studio
Isabela One, Executive Director, Burle Marx Institute, Rio de Janeiro, Brazil

Member $10/Non-Member $20 | 194HRT911

Illustration: The invasive Chinese Banyan Tree, Ficus microcarpa, ©Mark Issac-Williams

Photograph ©Larry Lederman

Supported by The Andrew W. Mellon Foundation

Register for all three: 194HRT912 | $69/$75

Support provided by Reba and Dave Williams
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 remains a leader in the discipline after 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.

Botanical Drawing I: Methods and Materials
Mondays, Wednesdays, & Fridays, 7/8–7/19, 10 am–1 pm | NYBG | 201BIL301A
Tuesdays, Wednesdays, & Thursdays, 7/9–7/18, 10 am–1 pm | Manhattan | 201BL301B

Botanical Drawing II: Developing Your Skills
Mondays, Wednesdays, & Fridays, 7/29–8/9, 10 am–1 pm | NYBG | 201BIL302B

Pen and Ink
Monday, Wednesday, & Friday, 7/8, 7/10, & 7/12, 10 am–4:30 pm | NYBG | 201BIL400

Colored Pencil
Tuesdays, Wednesdays, & Thursdays, 7/16–7/25, (no class 7/17), 10 am–2 pm | NYBG | 201BL415A

"The NYBG Botanical Art & Illustration Program was highly intense and thoroughly rewarding. Although I have my Master’s in Art, I learned so much more about color theory, composition, and drawing from the helpful and knowledgeable instructors. Since graduating from the program, I have exhibited nationally—one of my paintings received the Roth Award for Distinction at Filoli Gardens in San Francisco—and taught watercolor classes at local libraries and Adult Ed programs."

—LIZ FUSCO, 2017 Graduate

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

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

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 topical discussions. We invite all current Certificate students and alumni to join us! TSBA is recognized as an ASBA Circle. Meetings are free and held once a month at NYBG. See p. 55 for more information. Join us on March 26, at 12:30 pm to hear “Me and Mosses,” a talk by Dick Rauh.
**STUDENT INFORMATION**

**CLASS MATERIAL:** A materials list for every course 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.

**CERTIFICATE REQUIREMENTS**

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

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<th>COURSE (in Recommended Order)</th>
<th>CODE</th>
<th>HOURS</th>
<th>PAGE</th>
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<tr>
<td>Botanical Drawing I: Methods and Materials</td>
<td>BIL 301</td>
<td>18</td>
<td>7</td>
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<tr>
<td>Botanical Drawing II: Developing Your Skills</td>
<td>BIL 302</td>
<td>18</td>
<td>7</td>
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<td>Botanical Watercolor I</td>
<td>BIL 331</td>
<td>24</td>
<td>8</td>
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<tr>
<td>Botanical Illustration: Priscilla Ray</td>
<td>BIL 392</td>
<td>15</td>
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<tr>
<td>Plant Morphology for Botanical Artists**</td>
<td>BIL 300</td>
<td>20</td>
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<tr>
<td>Practical Aspects of Botanical Art**</td>
<td>BIL 392</td>
<td>10</td>
<td>8</td>
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**Plus one of the following:**

| Internet Tools for Creatives, Part I: Social Media* | BIL 394 | 5 | 8 |
| Internet Tools for Creatives, Part II: Website* | BIL 395 | 7 | 8 |
| Pen and Ink | BIL 400 | 18 | 8 |
| Colored Pencil | BIL 415 | 18 | 8 |

**Elective Courses**

- 221***

**ELECTIVES**

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

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<td>Foundation skills and allow the student to tailor their direction of study.</td>
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<tr>
<td>or they may choose a natural science concentration. Elective courses build on</td>
<td>BIL 304</td>
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**Total REQUIRED HOURS**

- 221***

**TOTAL REQUIRED HOURS**

- 245

**DRAWING SPRING TREES IN BLOOM**

Each spring, New York trees blossom in abundance—from simple oaks and maples, to equable dogwood, crabapples, and magnolias. Instructor Frank Guida takes you on a plein air to draw ethereal drifts of blossoms on the bough, and develop your skill at creating depth and texture. Use graphite’s subtle values to make sparkling, light-filled drawings of NYBG’s beautiful trees in spring. Drawing experience is helpful but not required.

- 2 Fridays, 5/18 & 5/25 from 9:00 am to 1:00 pm
- Frank Guida | NYBG | 194BIL226

- $145/$159

**DRAWING CONIFERS**

Learn to identify and draw the key characteristics of these large and varied group of trees. The object is to accurately draw a fully toned 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 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.** Prerequisite:** Botanical Drawing I

- 4 Tuesdays, 5/21–6/11, 6–9 pm
- Kait Lyness | NYBG | 194BIL145B

- $125/$139

**UNDERSTANDING ORCHARDS**

This one-day session is devoted to in-depth study of orchids. Look at some of the special adaptations and growth patterns, and use microscopes and lab books. Explore 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 sketchbook.

**Prerequisite:** Plant Morphology for Botanical Artists

- Saturday, 3/16, 10:00 am to 3:30 pm
- Dick Rauh | NYBG | 194BIL324

- $175/$195

**DRAWING BLOSSOMS**

Learn to translate color into black and white, mixing concepts of light source, value, and shading 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 program.

**Prerequisite:** Botanical Drawing I

- 5 Mondays, Wednesdays, & Fridays, 7/29–8/9, 10 am–1 pm
- Linda M. Nemergut | NYBG | 201BIL301C

- $435/$479

**Certificate Requirement**

**BOTANICAL DRAWING III: 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. Learn to translate color into black and white, mixing concepts of light source, value, and shading 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 program.

**Prerequisite:** Botanical Drawing I

- 4 Mondays, 4/29, 5/13, 6/3, & 6/10, 10 am–3 pm
- Betty Rogers-Knox | NYBG | 194BIL421

- $449/$495

**Certificate Requirement**

**BOTANICAL DRAWING II: DEVELOPING YOUR SKILLS**

Building on Botanical Drawing I skills, learn to tone final works, 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

- 6 Wednesdays, 3/6–4/10, 10 am–1 pm
- Linda M. Nemergut | NYBG | 194BIL302C

- 6 Wednesdays, 3/6–4/10, 6–9 pm
- Laura Vogel | NYBG | 194BIL302D

- 6 Saturdays, 5/18–6/29 (no class 5/25), 10 am–1 pm
- Laura Vogel | NYBG | 194BIL302E

- Mondays, Wednesdays, & Fridays, 7/29–8/9, 10 am–1 pm
- Linda M. Nemergut | NYBG | 201BIL302B

- $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 and blooming plant. Flowering plant. Explore compositional possibilities, textures, and details.** Prerequisite:** Botanical Drawing I

- 6 Thursdays, 4/18/5/23, 10 am–1 pm
- Linda M. Nemergut | NYBG | 194BIL303A

- 6 Wednesdays, 4/24–5/29, 10 am–1 pm
- Rose Marie James | Manhattan | 194BIL303B

- 6 Thursdays, 9/12–10/17, 6–9 pm
- Rose Marie James | Manhattan | 201BIL303C

- $435/$479

**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 program.

**Prerequisite:** Botanical Drawing I

- 4 Mondays, 4/29, 5/13, 6/3, & 6/10, 10 am–3 pm
- Betty Rogers-Knox | NYBG | 194BIL421

- $449/$495

**Certificate Requirement**

For information on the Tri-State Botanical Artists (TBSA) at NYBG and professional art organizations, see p. 55.
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 artworks. Focus 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

Tuesdays, Wednesdays, & Thursdays, 7/16–7/29, 10 am–3 pm
Laura Vogel | NYBG | 201BIL331

8 Saturdays, 5/11–6/15 (no class 5/25), 10 am–3:30 pm
Susan Sapanski | Manhattan | 194BIL207B

Wednesdays, 9/16–10/7, 10 am–11 am
Carol Ann Mirvy | NYBG | 194BIL245

$295/$315 Certificate Elective

BOTANICAL WATERCOLOR I

This comprehensive class covers the basic techniques of botanical watercolor. Learn how to use your brushes to make smooth, understated 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

5 Saturdays, 5/1–5/29, 10 am–3:30 pm
Dick Rauh | Manhattan | 201BIL221

$435/$479 Certificate Required

NEW! CARVING VIVACEOUS PLANTS

Plants that “eat” animals have intrigued naturalists for centuries, from glistening sundews to vivid, almost neon-like Venus’s flytraps. We’ll focus specifically on accurately rendering the morphology of pitcher plants with their magnificently intricate and multi-colored vials. You’ll use dissecting microscopes to examine specimens from the New York Greenhouses in order to capture their essence in minute detail. Prerequisite: Botanical Drawing II

2 Tuesdays, 5/14 & 5/21, 10 am–12 pm
Dick Raah | NYBG | 194BIL369

$195/$215 Certificate Elective

NEW! ANIMAL PORTRAITS

Learn to approach animal portraiture from an anatomical perspective. We will see how structures of the skeleton and musculature combine with texture, coloration, and expression for realistic portrayals. Techniques will be directly applicable to all animals, domestic and wild, and we will cover characteristic features of popular animal families, including cats and dogs. Prerequisite: Botanical Drawing II

Monday, Wednesday, & Friday, 7/15, 7/22, & 7/29, 10 am–4 pm
Carol Ann Mirvy | NYBG | 194BIL400

$435/$479 Certificate Required

NEW! STONES AND SHELLS IN GRAPHITE

Intricate stone and shell drawings are fun to draw! Experiment with advanced graphite techniques to create striking depictions of fossils, and striations of your natural science specimens. Please bring your own collection to draw. Recommended specimens: include shell or nautilus shells, sea urchin tests and natural stones, polished river stones, or gemstones. Prerequisite: Botanical Drawing II

3 Tuesdays, 5/30–6/14, 10 am–4 pm
Katie Miranda | Manhattan | 194BIL492

$285/$315 Certificate Elective

NEW! LEAVES IN THREE DIMENSIONS

Leaves are endlessly varied—in their arrangement on the stem, tree form and shape, their texture and margins. We will begin each class by looking at different types of leaves to inform our artwork. You’ll build on basic watercolor skills as you learn to reproduce various textures and lines of green, render believable veins, and create a sense of three dimensions as leaves turn in space. Prerequisite: Botanical Watercolor I

2 Saturdays, 7/13 & 7/20, 10 am–2:30 pm
Robin Jess | Manhattan | 201BIL488

$195/$215 Certificate Elective

NEW! DAYLILIES IN COLORED PENCIL AND WATERCOLOR

Practice layering watercolor, colored pencil, and watercolor pencil to create rich, colorful detail, and form under the expert guidance of Wendy Hollender. You’ll experiment with a dynamic blend of botanical drawing and painting techniques while focusing on the structure of daylilies in bloom. Prerequisite: Botanical Drawing II

Friday–Sunday, 6/2–6/4, 10 am–3 pm
Carol Ann Mirvy | NYBG | 201BIL434

$395/$435 Certificate Elective

NEW! BUTTERFLIES, MOTHS, AND POLLINATING INSECTS

Mindy Lighthipe, popular artist, and author of The Art of Botanical & Bird Illustration, leads this special workshop focused on accurately depicting pollinating insects in flight. Mindy will show you how to render the anatomy and wing position of butterflies, moths, and bees so your paintings soar. You will be able to study museum specimens with a dissecting microscope to identify and capture fine details. Prerequisite: Botanical Drawing II

Monday–Wednesday–Friday, 5/27–5/29, 10 am–3:30 pm
Mindy Lighthipe | NYBG | 201BIL418

$445/$489 Certificate Elective

NEW! VIBRANT COLOR AND TACTILE TEXTURES

Ann Swan—RHS Gold Medalist and author of Botanical Painting with Colored Pencils—will share her tips for creating rich, vibrant colors and realistic textures that help you capture velvety petals, soft highlights, and surface patterns. Explore using solvents and fluorescent colors in your mix and discuss the importance of planning; when and in what order do you underpaint, blend use resist, or emboss? We’ll go at all these techniques that bring depth, realism, and interest to your finished colored pencil work. Prerequisite: Botanical Drawing II

Wednesday–Friday, 5/29–5/31, 10 am–4:30 pm
Ann Swan | NYBG | 194BIL417

$445/$489 Certificate Elective

NEW! VIBRANT COLOR AND TACTILE TEXTURES

Ann Swan—RHS Gold Medalist and author of Botanical Painting with Colored Pencils—will share her tips for creating rich, vibrant colors and realistic textures that help you capture velvety petals, soft highlights, and surface patterns. Explore using solvents and fluorescent colors in your mix and discuss the importance of planning: when and in what order do you underpaint, blend use resist, or emboss? We’ll go at all these techniques that bring depth, realism, and interest to your finished colored pencil work. Prerequisite: Botanical Drawing II

Wednesday–Friday, 5/29–5/31, 10 am–4:30 pm
Ann Swan | NYBG | 194BIL417

$445/$489 Certificate Elective
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 unequaled 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

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<tr>
<th>COURSE</th>
<th>CODE</th>
<th>HOURS*</th>
<th>PAGE</th>
</tr>
</thead>
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<tr>
<td>Plant Structure</td>
<td>BOT 315</td>
<td>24</td>
<td>13</td>
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<td>Plant Physiology**</td>
<td>BOT 316</td>
<td>21</td>
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<td>Plant Diversity</td>
<td>BOT 317</td>
<td>24</td>
<td>13</td>
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<td>Demography: Woody Plant Identification</td>
<td>BOT 375</td>
<td>15</td>
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<td>Herbaceous Plant Identification</td>
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<td>Native Flora in Summer</td>
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Elective Credits (Choose current electives below) 58

TOTAL REQUIRED HOURS 169

ELECTIVES

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<th>COURSE</th>
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<tr>
<td>Botanical Latin</td>
<td>GAR 360</td>
<td>10</td>
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<tr>
<td>Nature’s Pharmacy</td>
<td>BOT 346</td>
<td>4</td>
<td>12</td>
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<td>The Science of Tree Communication</td>
<td>BOT 385</td>
<td>6</td>
<td>12</td>
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<tr>
<td>Spring Mushrooms</td>
<td>BOT 330</td>
<td>6</td>
<td>12</td>
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<td>Microscope Basics</td>
<td>BOT 398</td>
<td>6</td>
<td>13</td>
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<td>Systematic Botany</td>
<td>BOT 432</td>
<td>21</td>
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<td>Evolution and the Tree of Life: Problem Solving Through Life</td>
<td>BOT 390</td>
<td>3</td>
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<td>Saving the Plants of the World</td>
<td>BOT 386</td>
<td>3</td>
<td>12</td>
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<td>Forest Ecology</td>
<td>BOT 326</td>
<td>12</td>
<td>13</td>
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<td>Grasses, Sedges, and Rushes</td>
<td>BOT 319</td>
<td>4</td>
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<td>Morphology of Flowering Plants</td>
<td>BOT 431</td>
<td>16</td>
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*Course hours do not include exam hours
**Courses offered in the Fall-Winter Catalog

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

“I started taking NYBG classes out of curiosity and have been hooked ever since! After I graduated with a Botany Certificate, my wine business took off, and I am now a NYBG instructor myself. Attending NYBG classes—led by extremely knowledgeable teachers who also share their real-life experiences—is an eye-opening and life-changing experience, both on a personal and professional level.”

— TRENÈEUR ARBOR, 2018 Graduate
www.winebotany.com
THE GARDEN’S WORLD-RENOWNED SCIENTISTS USE CUTTING-EDGE TOOLS TO DISCOVER THE MYSTERIES OF EXOTIC AND LOCAL FLORA IN THESE ENGAGING SESSIONS.

NEW! EVOLUTION AND THE TREE OF LIFE: PROBLEM-SOLVING THROUGH TIME
Over billions of years, life on Earth has evolved in its many forms. Learn how to walk and walk through the Haupt Conservatory and use what you learn and how its information is applied to contemporary problems in human endeavors. We will explore plant fossils and examine unique ways plants communicate via chemical signals in the air (to warn and to animals and insects. Discover how trees can “talk”—to one another, to other plants, and to animals and insects. Discover how trees and plants can share water, removing heavy metals from soil, remediating polluted water, and break down pollutants. Mycologist familiar with the local mycobiota will discuss current mycological efforts around the world—including his own work in Ecuador. For novices and experts alike, using taxonomic keys. Students are required to make their own slide library. We will also discuss biomes and ecological concepts.

NEW! NATURE’S PHARMACY
Learn about a variety of plants historically used for their ability to alleviate symptoms of asthma, insomnia, sinusitis, bronchitis, and prevent asthma, insomnia, sinusitis, bronchitis, and to assist sick trees. (Cyperaceae) and rushes (Juncaceae), often confused with the more popular landscaping ones. Sedges and rush grow in wetland areas and are often used to stabilize banks and dikes. We will also cover basic botanical nomenclature.

NEW! RESULTS OF SCIENCE 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).

NEW! WHY IS YOUR TREE ON MY BLOCK?
Did you know there are over 200 tree species growing on the streets of Manhattan? Learn to distinguish among the most common genera and pinpoint particular species in this quick intro to tree identification. If you have inquiry trees in your neighborhood, bring photos and we’ll identify them together. We’ll spend some time outdoors too, so dress for the weather.

NEW! HOMES: PROBLEM-SOLVING THROUGH TIME
Learn about a variety of plants historically used for their ability to alleviate symptoms of asthma, insomnia, sinusitis, bronchitis, and to assist sick trees. (Cyperaceae) and rushes (Juncaceae), often confused with the more popular landscaping ones. Sedges and rush grow in wetland areas and are often used to stabilize banks and dikes.

NEW! THE SCIENCE OF TREE COMMUNICATION
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URBAN NATURALIST

“What a truly rewarding class and field experience! I learned so much about the incredible diversity of plants on our beloved little planet. I have never in my life seen so many different birds or experienced such deep appreciation for them.”

— J ACK BURKHALTER, Urban Naturalist student

THE CERTIFICATE PROGRAM

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

FIELD STUDY PROJECT

In order to receive a Certificate, you must complete an in-depth study of a natural site of your choosing based on observations made there over many months that includes a survey of the plants and animals found there and a plan for how the site can be improved to provide ecological and social benefits. Guidelines are available in the Registration Office.

Q U E S T I O N S ?

C O N T A C T P R O G R A M C O O R D I N A T O R

N A N C Y S L O W K

N AT C O O R D I N A T O R@N Y B G. O R G

C E R T I F I C A T E R E Q U I R E M E N T S

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<th>COURSE</th>
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<th>HOURS</th>
<th>PAGE</th>
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<tr>
<td>Introduction to Natural History</td>
<td>NAT 300</td>
<td>12</td>
<td>15</td>
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<tr>
<td>Natural History of Birds</td>
<td>NAT 321</td>
<td>12</td>
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<td>Natural History of Insects</td>
<td>NAT 322</td>
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<td>Urban Ecology Field Study Workshop</td>
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<td>Two of the four Native Flora courses:</td>
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<td>Native Flora in Autumn**</td>
<td>BOT 331</td>
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<td>Native Flora in Winter**</td>
<td>BOT 332</td>
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<td>Native Flora in Spring</td>
<td>BOT 333</td>
<td>15</td>
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<td>Native Flora in Summer</td>
<td>BOT 334</td>
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Elective Credits

TOTAL REQUIRED HOURS 96

ELECTIVES

<table>
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<tr>
<th>COURSE</th>
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<th>HOURS</th>
<th>PAGE</th>
</tr>
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<tbody>
<tr>
<td>Field Sketching</td>
<td>NAT 400</td>
<td>6</td>
<td>15</td>
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<tr>
<td>Watching Butterfly Wings: Identification and Appreciation</td>
<td>NAT 415</td>
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**Courses offered in the Fall-Winter Catalog

Courses with a prerequisite before you can register

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 Wednesdays, 4/10–4/24, (Rain date 5/1), 10 am–1 pm
Karla Risdon-Augent | NYBG & Pelham Bay Park
194AT330A

4 Wednesdays, 6/18–7/16, (Rain date 7/23), 6–9 pm
Gabriel Willow | Manhattan & Central Park
194AT330B

$295/$325 Certificate Required

NATIVE FLORA IN SPRING

Our native wildflowers, trees, and shrubs signal rebirth in spring. Learn to identify them and become familiar with their structure and taxonomy. Take part in field walks and classroom sessions, and practice using taxonomic keys. Students are required to make their own collections of plants and may borrow a herbarium press ($30 deposit required).

4 Fridays, 4/12–5/10 (no class 4/19), 10 am–1 pm
Nancy Slowik | NYBG
194B07333

$295/$325 Certificate Required

NATIVE FLORA IN SUMMER

NYBG Urban Ecology Field Study

Learn to measure and monitor the ecological diversity observed and documented in and around New York City environments. Practice using field techniques for recording observations in nature while walking along trails in the Garden. Explore the biodiversity within your chosen study patch and incorporate methods for assessing vegetation, animal life, and habitats. You will prepare a report based on data collected and present in class, which will become part of your final project.

Prerequisite: Introduction to Natural History

3 Wednesdays, 6/5–6/19 (Rain date 6/23), 10 am–1 pm
Nancy Slowik | NYBG
194EAT323

$295/$325 Certificate Required

NEW! NATURAL HISTORY OF INSECTS

Dive into the fascinating world of the creatures that make up 84% of the Animal Kingdom—what renowned biologist E.O. Wilson once called “the little things that run the world.” We’ll discuss the risks that insects play—both in maintaining healthy ecosystems as well as their own complex social systems. Explore the wonder of metamorphosis and the amazing variety of defensive strategies and adaptations they have developed to survive. We will also spend ample time in the field observing insects and learning to identify them.

3 Thursdays, 5/16–5/30 (Rain date 6/6), 10 am–1 pm
Ken Chaya | NYBG & Central Park
194AT332

$225/$245 Certificate Requirement

NEW! NATURAL HISTORY OF BUTTERFLIES:
IDENTIFICATION AND APPRECIATION

What do you see when looking at a butterfly? How do you describe its appearance and make sense of its daily habits and behavior? Where do you go to find interesting or unusual species? And once you have identified a butterfly species, what else should you take time to notice? Celebrated author and butterfly expert Rick Czech helps participants develop field observation and ID skills that enrich their technical ability and appreciation of the lepidopteran world.

3 Tuesdays, 6/13–6/27, 10 am–1 pm
Rick Czech | NYBG
194EAT415

$295/$325 Certificate Elective

NATIVE FLORA IN FALL

Learn to identify native and introduced herbs, ferns, shrubs, and trees as they appear in summer, and get to know plants that may be found in fields, on roadsides, and in woodlands and wetlands. Learn about basic plant structure and taxonomy. You’ll also make your own plant collections. You may borrow a herbarium press ($30 deposit required). Please bring sunscreen.

4 Fridays, 6/21–7/19 (no class 7/6), 10 am–1 pm
Nancy Slowik | NYBG
194B07334

$295/$325 Certificate Requirement

FIELD SKETCHING

Take your naturalist game to the next level by learning 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 birder Frank Guida will show you tips and tricks to accurately capture nature’s important details from previous drawing experience required.

2 Sundays, 5/19 & 6/9 (Rain date 6/23), 10 am–1 pm
Frank Guida | NYBG
194AT740

$145/$159 Certificate Elective

NEW! WATCHING BUTTERFLY WINGS:
IDENTIFICATION AND APPRECIATION

Prerequisite: Introduction to Natural History

Learn to observe and appreciate the amazing variety of butterflies and the amazing variety of defensive strategies and adaptations they have developed to survive. We will also spend ample time in the field observing insects and learning to identify them.

Prerequisite: Introduction to Natural History

2 Sundays, 5/19 & 6/9 (Rain date 6/23), 10 am–1 pm
Frank Guida | NYBG
194AT740

$145/$159 Certificate Elective

ADULT EDUCATION URBAN NATURALIST | 15
NEW! MUSHROOM PAPERMAKING
Use bracket fungi to create beautiful, earth-toned sheets of paper under the expert guidance of mycologist Dorothy Smullen. This hands-on class will walk you step-by-step through the papermaking process, and introduce you to the many different mushrooms you can use for a variety of uses. Your friends will be Instagramming your thank you cards in no time.

Saturday, 4/6, 11 am–2:30 pm
Dorothy Smullen | NYBG | 194CRF130
$75/$85

PAPER PEONIES WITH LIVIA CETTI
Livia Cetti—the celebrated artist who “makes paper bloom” (The New Yorker)—returns to the Garden to show you how to create a three-dimensional blossom from hand-dyed crepe paper and tissue paper to make beautiful creations. You will fashion a high-style posy, from stem to stamen by cutting and shaping your paper into petals that you will assemble using wire and floral tape. You’ll take home an exquisite, lifelike flower that will brighten your home regardless of the season.

Wednesday, 4/10, 10 am–1 pm
Livia Cetti | NYBG | 194CRF250
$149/$165

NEW! LAVENDER WREATH
In this popular wreath-making class, explore the best techniques for lavender harvesting, drying, and arranging. You will weave the base of your wreath using wild vines, then attach bundles of blue lavender and other aromatic herbs, such as lemon leaf, bay, rosemary, artemisia, and roses. Your finished wreath will make a great addition to any home.

Sunday, 4/14, 11 am–1:30 pm
Diana Conklin | NYBG | 194CRF150
$115/$125

NEW! FLORAL CROWNS
Simple yet elegant—floral crowns evoke nature and romance. Far from being a hippie throwback, they remain trendy for summer music festivals, parties, and even Parisian runways (check out Rodarte’s spring 2018 show). Join us for a lively workshop in which you fashion your own crown using seasonal blooms and fresh foliage. You’ll add textural elements for your own unique flair.

Monday, 4/15, 10 am–12 pm
Noomi Woodson | NYBG | 194CRF184A
$125/$139

NEW! FLORALIA: DYEING WITH FLOWERS
Uncover the hidden and colorful properties of flowers, as well as the history and basics of dyeing with plants by using different flowers to create tones from yellow and orange to pink and purple. Each participant will receive one silk scarf to dye during the workshop.

Friday, 5/3, 2–5 pm
María Elena Romeo | NYBG | 194CRF274
$115/$125

NEW! GIRLS’ NIGHT OUT: SPRING WILDFLOWERS
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.

Wednesday, 5/1, 6:30–8:30 pm
Jordan Chapelle | Manhattan | 194CRF170A
Thursday, 6/27, 6:30–8:30 pm
Jordan Chapelle | Manhattan | 194CRF170B
$125/$139

BOTANICAL BLUES: CYANOTYPE
Harness sunlight to create dreamlike botanical images in rich blues. Pioneered in the 1840s, cyanotype is a type of photography that doesn’t use a camera. Under the expert guidance of artist William Wolfrum, you will make 4–6 prints, while exploring the best ways to prep your paper with light-sensitive chemicals and compose your image using pressed plants.

Saturday, 5/18 (rain date 5/19), 10 am–3 pm
William Wolfrum | NYBG | 194CRF128A
Saturday, 7/13 (rain date 7/14), 10 am–3 pm
William Wolfrum | NYBG | 201CRF128B
$139/$155

NEW! BOTANICAL BRACELETS
Why restrict flowers to a vase or succulents to a pot? The new trend is to “wear” them! Create unique necklaces, earrings, bracelets, or pins—while learning simple techniques you can apply to many projects.

Wednesday, 5/15, 11 am–2 pm
Renee Marsh | NYBG | 194CRF255A
Wednesday, 8/7, 11 am–2 pm
Renee Marsh | Manhattan | 201CRF255B
$95/$105

LIVING DÉCOR: TERRARIUMS WITH AIR PLANTS & ORCHIDS
Create a mini rain forest with air plants and orchids in an open, lantern-style terrarium. Maria Colletti, author of Terrariums: Gardens Under Glass, will guide you as you design your own. She’ll also provide instruction on the care and maintenance of your miniature plant world.

Tuesday, 5/21, 6:30–8:30 pm
Maria Colletti | Manhattan | 194CRF167
$115/$125

NEW! LANDSCAPE DRAWING EN PLEIN AIR
Channel your inner Monet while you spend a morning drawing in the Garden. Botanical artist Frank Guida covers basic design principles, including focal point, contrast, perspective, line, and gesture, as well as how to choose a subject that translates well on the page. Then, you will go out on grounds to practice what you’ve learned. Beginners and experienced artists alike will receive individual guidance to hone their skills.

Thursday, 6/6 (Rain date: 6/7), 10 am–2 pm
Frank Guida | NYBG | 194CRF198
$95/$105

NEW! WATERCOLOR BASICS
You loved her recent New Yorker covers! Award-winning artist and seasoned educator Jenny Kroik is known for her loosely rendered, decisive scenes. She describes as “very responsive—like a journal.” Using cut flowers as your subject, you will learn the basics of painting with watercolor or take your work to the next level in a casual environment. Have fun while experimenting with color and creativity!

Tuesday, 7/18, 6–9 pm
Jenny Kroik | Manhattan | 201CRF277A
Saturday, 7/20, 12–2 pm
Jenny Kroik | NYBG | 201CRF277B
$95/$105

NEW! GELATIN PRINTING: PRESERVING PLANT SPECIMENS
Lillian Meisher, whose breathtaking illustrations grace the pages of The Adventures of Alexander von Humboldt, discusses how the explorers of old recorded the botanical specimens they found while fording river rapids and climbing mountain tops! Then you will experiment with color and layering using a similar, rewarding technique to make extremely detailed impressions of leaves and flowers from the Garden. Go home with an exquisite record of your visit to NYBG.

Saturday, 4/20, 10 am–1 pm
Lillian Meisher | NYBG | 194CRF134
$95/$105

NEW! INDIGO DYE WORKSHOP
Create a vibrant pair of tea towels by dyeing them in aluring, ancient indigo! You’ll experiment with several different ways to create patterns using traditional Japanese shibori techniques. Textile artist Molly George will also show you just how easy it is to create an organic indigo vat with only three natural ingredients so you can continue the fun at home!

Thursday, 7/18, 6–9 pm
Molly George | Manhattan | 201CRF164A
Saturday, 9/21, 12–3 pm
Molly George | NYBG | 201CRF164B
$115/$125
Two years ago, with a stressful job and busy life, I decided to relax with a NYBG flower arrangement class. I enjoyed it so much, I took another, and another. Now I have my Floral Design Certificate and I’m ready to offer my own floral class to share the joy with others. Thank you NYBG for the wonderful teachers, great classes, and a fabulous experience that opened a new window to my fun career.

— EMMA MELENDEZ, 2017 Graduate, Owner, EmmaFlowerFun Studio

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.

SUMMER INTENSIVE PROGRAM | July 8–August 9

In just five weeks, you can complete all classroom credits toward the NYBG Certificate, so you can get started on your internship requirement ASAP. Working one-on-one with floral design professionals, you’ll create dozens of arrangements in diverse styles for many different occasions. This concentrated program focuses on real-world situations, and includes a trip to New York’s flower district. Let this be the summer you jump-start your career in Floral Design!

CLASSES

Fundamentals of Form | Fundamentals of Style | Wedding Design I: Personals
Wedding Design II: Ceremony & Reception | Color Theory for Floral Design | Flower ID from A to Z
Interior Plantscapes | Shopping the New York Flower Market | Practical Planning for Designers
Grand-Scale Arrangements | Event Planning for the Floral Designer | Four Specialty Electives

Monday–Friday, July 8–August 9, 10 am–5 pm | NYBG | 201FDN950

TUITION AND REFUNDS

$6,435 (Member) / $7,079 (Non-Member)
A $1,995 non-refundable deposit is due at registration. Tuition includes all flowers, supplies, and a complete set of tools. An optional payment schedule is available if requested. $1,995 is due at registration, 2nd payment due May 20, final payment June 17. No refunds after Monday, June 17, 2019.

Questions about the Intensive? Call 718.817.8747 or email: adulted@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.

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

**Course Code**  
FDN 300  |  16  |  22  
FDN 310  |  16  |  22  
FDN 311  |  16  |  23  
FDN 305  |  16  |  23  
FDN 306  |  8  |  23  
FDN 308  |  8  |  23  
FDN 310  |  8  |  23  
FDN 410  |  4  |  23  
FDN 382  |  6  |  23  
FDN 305  |  16  |  23  
FDN 502  |  8  |  23  
FDN 504  |  12  |  23  
**Electives Courses**  
24  
**TOTAL REQUIRED HOURS**  
142  

The Floral Design Certificate Program is an accredited Education Partner of the American Institute of Floral Designers (AIFD). The program provides the opportunity for students to learn the art and business of floral design. The program is designed to meet the needs of students who want to pursue a career in floral design or enhance their current skills. The program is divided into two parts: The Foundation Program and the Certificate Program. The Foundation Program is a one-year program that provides a foundation in the fundamentals of floral design. The Certificate Program is a two-year program that builds upon the foundation provided in the first year. The program is recognized internationally and is accredited by the American Council on Education. The program is taught by experienced floral designers and provides hands-on experience in a variety of settings. The program offers a variety of electives to allow students to specialize in areas of interest. The program also offers a variety of opportunities for students to gain real-world experience through internships and job placements. The program is designed to be flexible and allows students to work at their own pace. The program is taught in a variety of settings, including classroom, laboratory, and field. The program is designed to be accessible to students with a variety of backgrounds and interests. The program is recognized by the American Institute of Floral Designers and is accredited by the American Council on Education. The program is taught by experienced floral designers and provides hands-on experience in a variety of settings. The program offers a variety of electives to allow students to specialize in areas of interest. The program also offers a variety of opportunities for students to gain real-world experience through internships and job placements. The program is designed to be flexible and allows students to work at their own pace. The program is taught in a variety of settings, including classroom, laboratory, and field. The program is designed to be accessible to students with a variety of backgrounds and interests. The program is recognized by the American Institute of Floral Designers and is accredited by the American Council on Education. The program is taught by experienced floral designers and provides hands-on experience in a variety of settings. The program offers a variety of electives to allow students to specialize in areas of interest. The program also offers a variety of opportunities for students to gain real-world experience through internships and job placements. The program is designed to be flexible and allows students to work at their own pace. The program is taught in a variety of settings, including classroom, laboratory, and field. The program is designed to be accessible to students with a variety of backgrounds and interests.

**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.

**Flower ID from A to Z**  
Monday, 3/21, 6–8 pm  
Rose G. Edinger  
NYBG  
- $49/$55

**Instructor Bios can be found online at NYBG.org/adulted**

**NEW! FARMHOUSE ELEGANCE TABLESCAPE**  
Learn to craft the ultimate farmhouse table in an artful blend of vintage and modern, rustic and refined. Locally sourced peonies, wildflowers, fresh herbs, and flowering cherry branches take center stage, displayed in farm-inspired metal and glass containers bursting with spriglike feather charms. You’ll fashion an elegant design, grouping blossoms, wildflowers, herbs, and botanicals with the latest in talksheets, napkin, and candle styling. Then photograph your farmhouse table for portfolio and social media before leaving with your fresh-from-the-farm and trending floral arrangement. $95 materials fee.

**NEW! MONSTERIA: LEAF OF THE MOMENT**  
Make a statement using tropical foliage such as monsteria, smilax, and bird’s nest fern. Jordan Chapelle, formerly Senior Visual Designer at Onaoka, shows you how to let the bold leaf shapes guide your design. Discover many techniques to make a strong visual impact without relying primarily on flowers and take home a tropical arrangement of the moment. $100 materials fee.

**NEW! FARMHOUSE ARMATURE TECHNIQUES**  
Learn the basic mechanics needed to create unique forms, while experimenting with making a bold statement of your own. You’ll have a wide variety of plant materials to choose from as you create, all while drawing inspiration from Josh’s lush aesthetic and sculptural approach to flowers. $85 materials fee.

**NEW! INKA: 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 kenzens. $180 materials fee. Please bring wire cutters to class.

| Drawing of a palm leaf | $235/$259 Certificate Elective |

**NEW! CLUSTERED GLASS CONTAINERS: ARTFULLY-CRAFTED FLORAL DESIGN**  
From chic weddings to intimate dinner parties, artfully presented groupings of bouquets in eclectic glass containers are a popular look. Garden roses, ranunculus, calla lilies, green moss dianthus, Queen Anne’s lace, fragrant gynestra, and hypericum berries arranged in simple vases will showcase your personal expression of color and composition. You will take home three beautiful floral displays of your own design. Material fee $95.

**NEW! NATURE-INSPIRED DESIGN WITH AMY MERRICK**  
“Color, proportion, and texture are as important in flowers as in fashion,” says Amy Merrick, who’s defining the art of floral design and botanical styling in high-profile photo shoots, websites, publications and events from Japan to New York. This half-day workshop reflects Amy’s signature aesthetic of artfully composed yet wonderfully untamed designs that juxtapose unexpected cuttings. Working with a range of locally sourced branches, blooms, stalks, herbs, fruits, and grasses, Amy will help you hone your personal style and creative vision into an arrangement that evokes the movement and textures found in nature.

| Image of a palm leaf | $135/$149 Certificate Elective |

**NEW! SCULPTURAL HEADPIECES**  
Joshua Garner’s playful headpieces are certain to delight, as his many followers on Instagram passionately attest. In this special workshop, Joshua will guide you through the basic principles as well as the moribana and kenzens. $90 materials fee.

| Image of a palm leaf | $179/$195 Certificate Elective |

**NEW! SIMPLIFIED 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 compose 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.

| Image of a palm leaf | $49/$55 Certificate Elective |

**NEW! 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.

| Image of a palm leaf | $210 Certificate Elective |

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| Image of a palm leaf | $135/$149 Certificate Elective |
CERTIFICATE REQUIREMENTS
These classes are also open to Non-Certificate students.

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 Thursdays, 3/2–4/11, 10:30–3 pm
Thomas Cavely / NYBG / 194FDN300A
3 Tuesdays & 3 Thursdays, 4/9–4/25, 6:15–8:55 pm
Nsombi Woodson / Manhattan / 194FDN300B

2 Sundays, 4/7–5/5 (no class 4/21), 11 am–3:30 pm
Nsombi Woodson / NYBG / 194FDN304C
Monday–Thursday, 7/15–7/18, 10:30 am–3 pm
Jameel Gilbert / Manhattan / 201FDN300D

4 Sundays, 5/9–10/20 (no class 9/29 & 10/13), 11 am–3:30 pm
Nsombi Woodson / NYBG / 201FDN302E
Wednesday, 6/11–10/2, 10:30 am–3 pm
Thomas Cavely / NYBG / 201FDN300F

6 Tuesdays, 9/24–11/15 (no class 10/20), 6:15–8:55 pm
Jameel Gilbert / Manhattan / 201FDN300G

$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. $340 materials fee.

Prerequisite: Fundamentals of Form

4 Thursdays, 5/7–5/28, 10:30 am–3 pm
Jameel Gilbert / NYBG / 201FDN302A
4 Sundays, 6/9–6/30, 11 am–3:30 pm
Nsombi Woodson / NYBG / 194FDN302B
Monday–Thursday, 7/22–7/25, 10:30 am–3 pm
Jameel Gilbert / Manhattan / 201FDN300C

$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 airy and tapering to create custom arrangements with fresh flowers, ribbons, and bows. Advance to the techniques of styling and assembling bridal and bridesmaid bouquets. $225 materials fee.

Prerequisite: Fundamentals of Style

4 Tuesdays, 6/4–6/25, 11 am–3:30 pm
Nsombi Woodson / NYBG / 194FDN304C
Monday–Thursday, 7/19–8/1, 10:30 am–3 pm
Jameel Gilbert / Manhattan / 201FDN304B

4 Mondays, 9/23–10/28 (no class 9/30 & 10/14), 11 am–3:30 pm
Nsombi Woodson / NYBG / 201FDN304C

$395/$435 Certificate Requirement

WEDDING DESIGN II: CEREMONY & RECEPTION
Design and create arrangements appropriate for the ceremony, season, and setting, including aisle and alter designs, pew arrangements, and banquet table centerpieces. Work with a remarkable array of flowers, foliage, and fabrics to create captivating garlands and columns. Discussions include a variety of ceremonial styles, including chuppahs, in both outdoor and indoor venues. $245 materials fee.

Prerequisite: Wedding Design I

6 Mondays, 4/8–5/13, 11:30–6:30 pm
Jordan Chapelle / Manhattan / 194FDN305C

$395/$435 Certificate Requirement

SHOPPING THE NEW YORK FLOWER MARKET
Learn to navigate the bustling New York flower district, discover which 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.

Prerequisite: Fundamentals of Form

Wednesday, 4/17, 9 am–2:30 pm
Rose G. Ediger / 01 site / 194FDN300A
Wednesday, 7/10, 9 am–12:30 pm
Rose G. Ediger / 01 site / 201FDN300B

$95/$105 Certificate Requirement

COLOR THEORY FOR FLORAL DESIGN
Colors—like flowers themselves—exude feeling and emotion in a manner a single word cannot. 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. $110 materials fee.

2 Saturdays, 4/13 & 4/27, 10–3:30 pm
Juli Jimenez / NYBG / 194FDN306A
2 Saturdays, 4/20–5/7, 11:30–5:30 pm
Rose G. Ediger / Manhattan / 194FDN306B

Claire Won Kang, AIFD / NYBG / 194FDN306C

$179/$195 Certificate Requirement

INTERIOR PLANTSCAPES
Florists and floral designers who want lasting, gorgeous interior planters 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, 5/9 & 5/16, 10 am–2:30 pm
Chris Raimondi, CLP / NYBG / 194FDN306C

$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.

3 Tuesdays, 5/2–5/14, 6:15–8:55 pm
Jameel Gilbert / Manhattan / 201FDN304B

$125 materials fee.

3 Wednesdays, 6/12–6/26, 6:15–8:55 pm
Jameel Gilbert / Manhattan / 194FDN304C

$179/$205 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 tablescapes. $185 materials fee. Prerequisite: Wedding Design I

3 Tuesdays, 3/5–3/19, 10 am–2:30 pm
Thomas Cavely / NYBG / 193FDN648
3 Wednesdays, 5/25–6/29, 10 am–3 pm
Jameel Gilbert / Manhattan / 194FDN304A

$285/$315 Certificate Requirement

NEW! MODERN SYMPATHY DESIGNS
Sympathy arrangements, properly composed, pay tribute to a demise 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. $110 materials fee.

2 Saturdays, 4/13 & 4/27, 10–3:30 pm
Juli Jimenez / NYBG / 194FDN306A
2 Saturdays, 4/20–5/7, 11:30–5:30 pm
Rose G. Ediger / Manhattan / 194FDN306B

Claire Won Kang, AIFD / NYBG / 194FDN306C

$179/$195 Certificate Requirement

GRAND-Scale ARRANGEMENTS
Full, lavish arrangements to enhance entrance halls, bathrooms, parties, and hotels are always in demand. Learn the mechanics behind how these dramatic arrangements are designed and constructed. $200 materials fee.

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

3 Wednesdays, 6/6–6/26, 6:15–8:55 pm
Jameel Gilbert / Manhattan / 194FDN304C

$225/$249 Certificate Requirement

NEW! OUTDOOR, SITE SPECIFIC INSTALLATIONS
Journey into the Garden to create a large outdoor Instagram-worthy flower sensation! Working with Liz Wright of Minfo Floral Design, you will use locally sourced seasonal flowers and blooms to transform your garden gazebo into a magical ceremonial setting. Recommended for designers who have a passion for having her designs selected as The Knot’s 2017 Dream Wedding. Liz will share her experiences, constructive feedback, and encouragement as you collaboratively design and craft an asymmetrical display. You’ll be able to use your gorgeous photos of the display in your professional portfolio! $125 materials fee.

Tuesday, 7/16 (Rain date 7/23), 9 am–2:30 pm
Liz Wright / NYBG / 201FDN393

$179/$215 Certificate Elective

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

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

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FOOD & DRINK

Create tasty treats from nature’s bounty!
Or explore the botany and horticulture behind the foods and beverages you consume.

THE WONDERS OF AGAVE: TEQUILAS, RAICELAS, MEZCALS, AND SOTOLs
Agave have been harvested from the art and “desert tequilas” of Mexico for over 5,000 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, 5/11, 6–8 pm
Brian Hockaday | Manhattan | 194CKG210
$79/$85

NEW! BOTANICAL MIXOLOGY 101
Historical bartenders and modern mixologists have long used a great variety of herbal and botanical ingredients to add flavor, body, and visual flair to drinks. So go beyond the pintail to explore the world of oeko-saccharums, infusions, simple syrups, and tinctures using plants and ingredients accessible to the urban gardener/drinker.
You’ll learn history, get growing advice, and master technique, and sample a variety of botanical ingredients to gain greater understanding of the palette of available flavors. Lastly, you’ll top off the evening by making your own tincture to take home and perk up your cocktails!
Tuesday, 4/9, 6–8 pm
Jim Freeman | Manhattan | 194CKG204A
$79/$85

NEW! INTRODUCTION TO WINE TASTING
Taste and enjoy wine in a relaxed garden environment. After sampling and discussing an assortment of white and red wines, you’ll have a better grasp of what it means for a wine to be called dry, tannic, fruity, and aggressive— all from how Honey Locust Pharm House, her small-scale, organic farm. She’ll discuss how to plant, propagate, maintain, and harvest these greens so you too can grow them! You’ll take the salad mix and dressing home to enjoy.
Saturday, 5/11, 11 am–2 pm
Nancy MacNamara | NYBG | 194CKG212
$79/$85

NEW! ITALIAN BITTER GREENS SALAD
Explore how to make the perfect, palette-cleansing salad that also promotes good digestion. Nancy MacNamara will show you how to properly mix and dress a variety of bitter green, including baby escarole, radicchio, dandelions, castelfranco, and agretti—all fresh from Honey Locust Pharm House, her small-scale, organic farm. She’ll discuss how to plant, propagate, maintain, and harvest these greens so you too can grow them! You’ll take the salad mix and dressing home to enjoy.
Saturday, 5/11, 11 am–2 pm
Nancy MacNamara | NYBG | 194CKG212
$79/$85

NEW! CANNING PEACHES
“Put up” your peaches using time-honored canning techniques for three preparations that will extend the bounty of your favorite stone fruits long after summer is gone. Create a composite to top your summer desserts; prepare for fall with warming spices; or add syrup to bring sunshine to your winter days. We’ll discuss the basics of canning and food safety while you prepare delicious treats to take home.
Saturday, 7/27, 11 am–3 pm
Stephen Novacek | NYBG | 201CKG231
$79/$85

BEEKEEPING BASICS
Expert beekeepers Frank Mortimer and Bob Stanzo 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, 8/3, 10 am–1 pm
Frank Mortimer & Bob Stanzo | NYBG | 201CKG206
$55/$59

NEW! PICKLES, THREE WAYS
Return to great-grandma’s tried and true process to make pickled cucumbers in three styles—spicy dill, sweet bread-and-butter, and zesty relish. Designed for beginners, this class covers the basics—from recipes to food prep to sterilizing. You’ll pick up tips and tricks for picking all kinds of produce and head home with recipes and jars of tasty pickled goods! Saturday, 8/24, 11 am–2 pm
Stephen Novacek | NYBG | 201CKG221
$79/$85

THE BASICS OF BLENDING TEA
There’s more to blending tea than simply tossing herbs together. Nancy MacNamara—whose tea is a perennial favorite at NYBG’s Farmers Market—will discuss the flavor profiles of various dried leaves, roots, bark, fruits, flowers, and berries, as well as how to combine these ingredients with a base of black, green, or herbal tea. You’ll sample different brose before creating your own special blend to take home.
Saturday, 7/13, 11 am–2 pm
Nancy MacNamara | NYBG | 201CKG219
$79/$85

NEW! THE TOTAL TOMATO
Wondrous what to do with your bounty of tomatoes? Preserve them, of course! We’ll show you the best ways to process and hot pack your harvest with a simple method borrowed from industrial canning. We’ll make a chill tomato salsa, marinara sauce, and crushed tomatoes for the pantry, all of which can be safely preserved for future use. When you’re dining on fresh tomatoes come December, you’ll be thankful you came!
Thursday, 9/12, 11 am–2 pm
Stephen Novacek | NYBG | 201CKG226
$79/$85

THE TOTAL TOMATO
Wondering what to do with your bounty of tomatoes? Preserve them, of course! We’ll show you the best ways to process and hot pack your harvest with a simple method borrowed from industrial canning. We’ll make a chill tomato salsa, marinara sauce, and crushed tomatoes for the pantry, all of which can be safely preserved for future use. When you’re dining on fresh tomatoes come December, you’ll be thankful you came!
Thursday, 9/12, 11 am–2 pm
Stephen Novacek | NYBG | 201CKG226
$79/$85
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 28.

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.

“I started gardening more than 25 years ago with a little help from my friends. But essentially I have been a self-taught gardener. At NYBG’s Gardening Program, I was able to refine my skills and immerse myself in the details—which, of course, makes all the difference. I am a much more skilled and educated gardener now, which is what I wanted to achieve in the program. So happy I joined in!”

— DONNA M. DORIAN, 2018 Graduate
Owner, Farmette Designs

QUESTIONS?

CONTACT PROGRAM COORDINATOR DARYL BEYERS AT GARCOORDINATOR@NYBG.ORG

SUMMER INTENSIVE PROGRAM | July 8–July 26

Fast-track your NYBG Gardening Certificate this summer! In just three short weeks, you’ll complete more than 40% of all course work required for the Certificate, giving you a solid base in the principles of environmentally sound gardening. Special electives and curator-led tours of various Garden collections combine the best of the classroom and real-world field exposure.

THE CLASSES

Fundamentals of Gardening | Soil Science for Gardeners | Insect Identification and Management
Plants for Landscaping | Container Gardening | Fundamentals of Garden Design
Gardening with Native Plants
Monday–Friday, July 8–26 | 9 am–4 pm | NYBG | 201GAR950

TUITION AND REFUNDS

$1,925 (Member) / $2,125 (Non-Member)
A $635 non-refundable deposit is due at registration.
An optional payment schedule is available if requested. $635 is due at registration, 2nd payment due May 20, final payment June 17. No refunds after Monday, June 17, 2019.

Questions about the Intensive? Call 718.817.8747 or email: adulted@nybg.org
Gardening with Tovah Martin

Join us for two special workshops with gardening guru Tovah Martin, the author of over a dozen titles whose work has been featured in numerous publications, including Country Gardens, Martha Stewart Living, Better Homes & Gardens, and Gardens Illustrated.

The Unexpected Houseplant

These aren’t your grandmother’s dowdy, dusty houseplants. These are houseplants with panache! Using lush photographs, Tovah will introduce you to many unusual, beautiful varieties you wouldn’t typically consider bringing indoors, including perennial such as Hostas and primroses. And Tovah will also talk about how to host houseplants out of their plastic pots and into a sleek future of fun, furry containers with planters for potting power.

Friday, 4/26, 10 am–12 pm  Tovah Martin  | NYBG | $194GAR303 | $58/$85

Mindful Gardening

Enhance your gardening experience! Discover how to garden with eyes wide open, ears to the ground, and hands outstretched. Tovah shares insights from her new book, The Garden in Every Sense and Season. She will lead you through an odyssey of exploration to awaken the senses and arouse your abilities of perception. When you return home, you’ll see your garden anew!

Wednesday, 7/21, 10–12 pm  Tovah Martin  | NYBG  | 201GAR393 | $59/$65

The Orchard Show: Singapore

February 23–April 28, 2019

In celebration of this annual exhibition, we offer classes at the Garden to immerse you in the world of orchids.

Phalaenopsis Care

Myths abound about how it is to care for this new super-popular plant. Frank Guida dispels these myths with plenty of sensible advice on how to treat your phalaenopsis so that it blooms year after year. Light, water, nutrients, repotting, and root care are all key. You’ll get a pot to take home, along with the confidence you need to make your orchids thrive.

Saturday, 3/30, 11 am–1 pm  Frank Guida  | NYBG  | 194GAR131A | $65/$75

Orchids: Divide, Repot, Rejuvenate

Frank Guida, Botanical Art teacher and orchid aficionado, shows you what he’s learned from years assisting in NYBG’s Rare Rhododendron about when and how to divide and repot your orchids without trauma (to you or the plants!). Learn about different types of containers and potting media, while you pot up a small orchid to take home. BYO or TO if you prefer.

Sunday, 4/7, 10–12 pm  Frank Guida  | NYBG  | 194GAR128 | $65/$75

New! Entertaining with Orchids

Create a stunning table centerpiece by planting an Oncidium orchid orchard in a tree form basket under the expert guidance of Barbara Schmidt, award-winning Philadelphia Flower Show and author of Orchid Care: For the Beginner. You will also learn tips and tricks to care for this particular orchid, as well as other orchids you may own at home.

Saturday, 4/13, 11 am–1 pm  Barbara Schmidt  | NYBG  | 194GAR123C | $75/$85

The Orchard Show Sponsors:

The Nethercutt Foundation

The Garden in Every Sense and Season

28 | GARDENING

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 drainage, growth media for balance, 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, 4/4–25, 10 am–1 pm  Manny Sinnosky  | NYBG  | 194GAR502A | $266/$295  Certificate Requirement

4 Wednesdays, 6/7–28, 6–9 pm  Manny Sinnosky  | NYBG  | 201GAR302B | $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.

4 Wednesdays, 5/1–5/22, 10 am–1 pm  Stephen Nocera  | NYBG  | 194GAR431A | $265/$289  Certificate Requirement

4 Thursdays, 8/8–8/29, 6–9 pm  Stephen Nocera  | NYBG  | 201GAR430B | $265/$289  Certificate Requirement

Garden with Native Plants

Learn how native plants enhance gardens and augment biodiversity. Study native herbaceous and woody plants: their identification, habitat, and cultural requirements about the significance of woodland soils, and how to promote a healthy environment to support spring ephemerals, summer perennials, shrubs, and trees.

3 Tuesdays, 5/14–5/28, 6–9 pm  Brad Roeller  | NYBG  | 194GAR132A  $215/$239  Certificate Requirement

3 Saturdays, 8/3–8/17, 10 am–1 pm  Brad Roeller  | NYBG  | 201GAR135B | $215/$239  Certificate Requirement

Disease Identification and Management

Examine and identify plant diseases as they become widespread in your garden. Explore the basics of disease management, and learn how to apply the principles of Integrated Pest Management (IPM) to help you maintain a strong and healthy garden. Please bring samples of diseased plants to class.

4 Thursdays, 8/7–9/11 (no class 9/4), 5–8 pm  Don Sabel  | NYBG  | 201GAR301B | $285/$319  Certificate Requirement

Perennial Plant Combinations

Whether in a shady corner or a sunny border, selecting the right plant combinations can determine the success of your perennial garden and that 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.

Saturday, 3/2, 10:30 am–3 pm  Michelle Langone  | NYBG  | 193GAR173D  $75/$85

Designing Winning Plant Combinations

Contemporary designers combine plants in naturalistic patterns to create gardens with year-round interest. Consider how color, form, texture and bloom time should inform your plant choices. Learn how to combine trees, shrubs, perennials, grasses, and annuals into gorgeous seasonal displays. Tours of the Seasonal Walk and Perennial Garden are included. Dress for the weather.

2 Wednesdays, 5/22 & 4/3, 10 am–1 pm  Jennifer Bakshi  | NYBG  | 194GAR301  $125/$139  Certificate Elective

OUTDOOR PLANTS
VERTICAL GARDENING: VINES & CLIMBERS
Vines and other climbing plants like climbing hydrangea, roses, hardly jasmine, and climbing hydrangea not only sport beautiful blossoms but 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.
Third Thursday, 3/28, 6–9 pm
Doris Loccle | Manhattan | 193GAR146
$55/$59
NEW! CUT FLOWER FARMING
Join the cut flower farming revolution! Discover the basics of how to design, plant, grow, and harvest a cutting garden that will be productive throughout the year. You’ll get hands-on practice starting seeds to train it to grow on a wall, up a trellis, or over an arbor or pergola.

Friday, 3/15, 10 am–2 pm
John Beirne | New Canaan, Conn. | 193LAN120B
$65/$75
WILDFLOWER GARDENING
Discover how to create your very own successful wildflower garden, whether you have a small urban space or a large suburban yard. We’ll discuss which native species thrive in our area and which types grow best together. You’ll walk away with all the information you need to plant and maintain a beautiful wildflower garden filled with color and life.
Friday, 5/7, 10–2 pm
Kim Beirman | NYBG | 194GAR110
$85/$89
SHADY CHARACTERS
Don’t let a lack of sun cast a shadow on your garden! Find out which plants thrive in shady conditions while bringing charm and color. You’ll learn how to expand your palette from reliable standards such as hosta and plant for architectural and textural interest across the spectrum of trees, vines, shrubs, and perennials. Discover ways to improve that shade presents, so that you can cherish your shade as the calming feature it is.
Saturday, 6/8, 10 am–1:30 pm
Lorraine Ballato | NYBG | 194GAR142
$65/$69
GARDENING TO ATTRACT POLLINATORS
Pollinators are essential to our environment, accounting for the reproduction of approximately 70% of flowering plants and a significant portion of our food crops. Many pollinators are in steep decline, but you can support and encourage them in your own landscape. Get to know your local bees, butterflies, flies, ants, butterflies, moths, and birds. Learn their habitat, forage and host plant requirements, as well as the plant traits that attract them. Come away knowing what you need to do to create a successful pollinator garden this spring.
Saturday, 6/15, 11 am–3:30 pm
Kim Beirman | NYBG | 194GAR114
$65/$69
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. Master Gardener Ryan McCalister is a bulb expert having grown hundreds of thousands on her farm. He’ll discuss the biology, cultural, cultural, and maintenance, and particular habits of a wide variety of bulb types.
Saturday, 9/21, 10 am–1 pm
Ryan McCalister | NYBG | 201GAR220
$75/$85
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 Thursdays, 3/7–3/21, 10 am–1 pm
Shari Forster | New Canaan Nature Center, New Canaan, Conn. | 193LAN100D
3 Thursdays, 4/4–4/21, 10 am–1 pm
Daryl Beyers | NYBG | 194LAN104A
3 Thursdays, 7/18–8/15, 10–11:15 pm
Daryl Beyers | Manhattan | 201LAN100B
3 Mondays, 9/16–10/7 (no class 9/30), 1–9 pm
Daryl Beyers | NYBG | 194LAN100C
3 Tuesdays, 9/17–10/1, 6–9:15 pm
Kimberly Tryba | Manhattan | 201LAN100D
$115/$125
CONTAINERgardening
Container gardening how to do it high in 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 Sundays, 3/17 & 3/34, 10 am–2:30 pm
Daryl Beyers | NYBG | 193GAR232B
2 Sundays, 4/14 & 4/28, 10 am–2:30 pm
Renee Marsh | NYBG | 194GAR232A
2 Mondays, 5/6 & 5/13, 10–11:30 pm
Daryl Beyers | Manhattan | 201LAN100C
$229/$249 Certificate Elective
LANDSCAPE FOR CURB APPEAL
Make a great first impression by creating a welcoming front garden. Review examples that work for different architectural styles, and develop a plan for your garden that you can take home to refine and implement come spring.
2 Saturdays, 5/18 & 6/1, 10 am–2:30 pm
Daryl Beyers | NYBG | 194GAR311
$225/$249 Certificate Elective
INDOOR PLANTS
INDOOR TROPICALS
Are you looking to up your houseplant game? We can help! We’ll walk you through 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 plants that are right for you. You’ll even pot up a small tropical to take home.
Saturday, 3/23, 10 am–1 pm
Colin Wright | Manhattan | 193GAR299C
$95/$105
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 hardwearing plants, and seeding systems to use, while building a small living wall, under the guidance of interior plantscape expert Chris Ramondi.
Saturday, 3/3, 10 am–2 pm
Chris Ramondi | Manhattan | 193LAN120A
Friday, 3/15, 10–2 pm
Chris Ramondi | NYBG | 193LAN120B
$125/$139
GARDEN MAINTENANCE
GARDEN MAINTENANCE
PRUNING: HOW, WHEN, AND WHERE
Learn the basics of successfully cultivating perennials in a variety of garden settings. Discussion topics include site selection, soil preparation, tools, planting techniques, maintenance, plant selection, landscape use, and design basics. Please bring lunch.
Saturday, 4/7, 9–am–5 pm
Michele Langone | NYBG | 194GAR323
$139/$155 Certificate Elective
WHIP YOUR GARDEN INTO SHAPE
Make your garden picture perfect in a few simple steps. Learn tips from a pro on how to access, clean up, and enhance your garden with basic tasks such as dead-heading, staking, edging, and adding late-season plants. Bring your pruners and gloves—students will receive hands-on, outdoor instruction on all these gardening techniques. Class is held rain or shine. Please dress for the weather.
Tuesday, 6/4, 10 am–1 pm
Daryl Beyers | New Canaan Nature Center, New Canaan, Conn. | 194GAR180
$55/$59
NEW! MANAGING GARDEN CRITTERS
Pests and pathogens don’t go away! Don’t give up on gardening out of frustration because unwanted marauders are nibbling the fruits (and nuts) of your labor. We’ll discuss how to grow your garden into a more balanced, large and small, and consisting with them can be a challenge. We will focus on understanding these animals’ needs and habits so you can make your yard less appealing, while still maintaining your garden’s beauty and bounty. You’ll even learn an all-natural deer repellent spray to take home!
Saturday, 5/4, 11 am–2 pm
Peter Marsh | NYBG | 193GAR193
$65/$75
EXPLORE GARDEN HISTORY: Persian and Japanese Garden Design
Join us for two special tours at Untermyer Gardens and the Rockleigh Estate Japanese Garden in New York. See page 48 for details.
BOSNIAI 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 tools will be provided. Bring plenty of strong chopsticks, pruning shears, and lunch to class.
Saturday, 5/19, 10 am–3 pm
John Capitani | NYBG | 194GAR912A
Saturday, 6/22, 10 am–3 pm
John Capitani | Manhattan | 194GAR912B
$195/$215
BASICS OF PERENNIAL MAINTENANCE
Learn the basics of successfully cultivating perennials in a variety of garden settings. Discussion topics include site selection, soil preparation, tools, planting techniques, maintenance, plant selection, landscape use, and design basics. Please bring lunch.
Saturday, 4/7, 9 am–5 pm
Michele Langone | NYBG | 194GAR323
$139/$155 Certificate Elective
GARDEN WORKSHOP
INTRO TO LANDSCAPE DESIGN
Good garden design isn’t easy, but for anyone with a passion for plants, a little imagination, and proper guidance, it is possible. 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, 5/18 & 6/1, 10 am–2:30 pm
Daryl Beyers | NYBG | 194GAR311
$225/$249 Certificate Elective
GARDENING | 31
INSTRUCTOR BIOS CAN BE FOUND ONLINE AT NYBG.ORG/ADULTED

Illustration: Black Pine Half-Cascade-Style Bonsai, Pinus nigra, ©Asuka Hishiki, NYBG Instructor
Garden Varieties: Summer All-Stars

Like a friendship that deepens the more time you spend together, digging deeper into the history and cultivation of a favorite genus can add layers of meaning to why we grow and enjoy the plants we choose.

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.

GARDENING GARDENING

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 and choosing the right transplant, and strategizing for irrigation, pest management, and more. Class includes time to tailor lessons learned to your particular garden space.

3 Tuesdays, 3/2-3/16, 6-9 pm

Registration fee for each section: $39/$45

MASTERING THE ART OF TOMATO GARDENING

East Reef Farm founder Annie Novak covers the tips and tricks of maintaining a healthy, organic, tomato garden in raised beds on your rooftop, in containers on your balcony, or in your backyard garden. In May, get the knowledge you need to decide if heirlooms or hybrids are right for you. Then, learn to start plants from seed, as well as how to transplant, graft, and fertilize properly. In September, learn to grow and enjoy the plants we choose.

Wednesday, 4/17, 2-5 pm

Registration fee for each section: $39/$45

$55/$59 Certified Elective

Vegetable Gardening

APRIL 27 | NYBG

Veggie Garden Basics

Vegetables have their own special requirements, and whether you’re a novice or an experienced grower, you’ll get more from your garden this season using these time-tested techniques. The two-hour session covers site selection, bed and soil preparation, optimal planting times, and harvesting strategies.

Tuesday, 4/23, 10 am–12 pm

Registration fee for each section: $39/$45

All About Containers

MAY 4 | Midtown Education Center

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 | May 4 | Manhattan | 194GAR200B

$124–$245

ALL DAY SATURDAY GARDENING WORKSHOPS

NEW! HYDRANGEA PRUNING: WHAT STAYS, WHY GOES, AND WHEN

Pruning this plant is one of the most confusing chores in the garden. Time to clear the air once and for all. We’ll dive into the pruning needs of the most common hydrangeas throughout the gardening year. Examine what stays, what goes, and when.

Sunday, 4/28, 10 am–12 pm

Registration fee for each section: $39/$45

All Three Sections: NYBG | 194GAR200A | $117/$129

$198/$240

LHASA PEONIES

Choosing the right spot to plant your peonies is key to growing large, sumptuous blossoms with little to no maintenance. Get tips for planting, culturing, and propagating this springtime showstopper from Dan Furman of Cricket Hill Garden, affectionately known as Peony Heaven. After hearing tales of the cultivation history of the various types of peonies in the U.S., Japan, and China, you will tour NYBG’s exquisite Matlich Anniversary Peony Collection with over 100 mature specimens.

Tuesday, 5/1, 10 am–1 pm

Daniel Furman | NYBG | 194GAR242

$65/$75

DISEASE AND PEST CONTROL IN POTS

Daryl Beyers

DISEASE AND PEST CONTROL IN POTS

Daryl Beyers

All of your hard work in the garden should produce healthy, nutritious food, so don’t let a host of pesticide problems ruin it for you. Learn a variety of environmentally friendly and sustainable ways to minimize or eliminate pests in your veggie garden, including promoting beneficial insects that attack bad bugs.

Remee Marsh | NYBG | 194GAR201D

Registration fee for each section: $39/$45

All Three Sections: NYBG | 194GAR201A | $99/$109

$198/$240

NEW! VEGGIES AND HERBS FOR CONTAINERS

Learn how to grow garden-fresh vegetables and herbs year-round. Discover which varieties do best in containers and how to care for them. Special attention is paid to those varieties that not only taste great but also look beautiful, including varieties that have interesting or unusual blooms and foliage.

Nick Sennig | May 4 | Manhattan | 194GAR200C

$124–$245

DESIGNING WITH CONTAINERS

Containers are wonderful in any setting—whether alone on a windowsill or terrace, or incorporated into a yard or formal garden. Learn a comprehensive approach to designing with containers, including how, when, where and why you should use a particular pot in one spot over another. Gain tips and tricks for great plant combinations in containers of all kinds.

Richard Rosiello | May 11 | Manhattan | 194GAR200D

$124–$245

POTTING MIXES AND PLANT NOURISHMENT

Get the dirt on potting mix! This session teaches you how to create the right blend of ingredients for your container plants. You’ll leave with potting mix recipes for each type of plant, and simple secrets for fertilizers, compost, and soil amendments that will help your garden thrive.

Daryl Beyers | Manhattan | 194GAR202C

$124–$245

TERRACE GARDENING

JUNE 15 | Midtown Education Center

GREAT PLANTS FOR TERRACE GARDENS

City terraces are exposed to difficult growing conditions that create microclimates out of sync with the planting zone found on the ground, and plantings in containers are particularly vulnerable to these elements. Learn how to select and maintain plants best suited for the terrace. You’ll get great recommendations for edibles and ornamentals with textures and colors that offer visual interest throughout the seasons.

Colin Wright | Manhattan | 194GAR208B

$124–$245

Great Plains Toad Mud Turtle

GREAT PLANTS FOR TERRACE GARDENS

City terraces are exposed to difficult growing conditions that create microclimates out of sync with the planting zone found on the ground, and plantings in containers are particularly vulnerable to these elements. Learn how to select and maintain plants best suited for the terrace. You’ll get great recommendations for edibles and ornamentals with textures and colors that offer visual interest throughout the seasons.

Colin Wright | Manhattan | 194GAR208B

$124–$245
SCHOOL OF HORTICULTURE AND LANDSCAPE DESIGN

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

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CODE</th>
<th>HOURS*</th>
<th>PAGES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Plant Science</td>
<td>HRT 300</td>
<td>16</td>
<td>37</td>
</tr>
<tr>
<td>Soil Science I: Physical Properties</td>
<td>HRT 301</td>
<td>18</td>
<td>37</td>
</tr>
<tr>
<td>Soil Science II: Chemistry and Nutrition</td>
<td>HRT 302</td>
<td>18</td>
<td>37</td>
</tr>
<tr>
<td>Horticultural Techniques: Greenhouse Practices**</td>
<td>HRT 312</td>
<td>15</td>
<td>—</td>
</tr>
<tr>
<td>Insect Pests of Landscape Plants</td>
<td>HRT 381</td>
<td>18</td>
<td>38</td>
</tr>
<tr>
<td>Plant Propagation I: Basic Principles</td>
<td>HRT 411</td>
<td>18</td>
<td>39</td>
</tr>
<tr>
<td>Plant Propagation II: Applications**</td>
<td>HRT 412</td>
<td>17</td>
<td>—</td>
</tr>
<tr>
<td>Disease Identification &amp; Management</td>
<td>HRT 481</td>
<td>18</td>
<td>39</td>
</tr>
<tr>
<td>Nursery and Greenhouse Management***</td>
<td>HRT 491</td>
<td>24</td>
<td>162</td>
</tr>
</tbody>
</table>

TOTAL REQUIRED HOURS: 162

*Course hours do not include exam hours
**Courses offered in the Fall–Winter Catalog
***Courses with a prerequisite before you can register

For professional horticultural organizations, see p. 55.

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

"A (very) amateur gardener for years, I decided to have a go at a career in horticulture, and enrolled in NYBG’s Sustainable Garden Design Certificate Program. There I found a staff of working professionals who blend theory, their experiences, and an unrivaled outdoor classroom into a solid foundation for professional gardening. The program has equipped me well for both my work as an urban gardener in New York and as a designer with a taste for more rural settings. And every bit of it is fun."

— TIM NOLAN, 2018 Graduate
Lead Gardener, Folia Gardens
SUSTAINABLE LANDSCAPE MANAGEMENT—TRACK 2

Introduction to Plant Science HRT 300 16 37
Soil Science I: Physical Properties HRT 301 18 37
Soil Science II: Chemistry and Nutrition HRT 302 18 37
Horticultural Techniques: Landscape Gardening HRT 311 18 39
Pruning Principles and Practices** HRT 321 15 38
Basic Design and Installation of Irrigation Systems HRT 323 12 39
Starting a Small Landscaping Business** HRT 349 14 —
Insect Pests of Landscape Plants HRT 381 — 37
Tree Management** HRT 422 14 —
Landscape Management** HRT 443 24 —
Disease Identification & Management HRT 481 18 39
Weed Identification & Management HRT 482 12 —
Mathematics for Horticulturists** HRT 356 6 —
TOTAL REQUIRED HOURS 203

ARBORCULTURE—TRACK 3

Introduction to Plant Science HRT 300 16 37
Soil Science I: Physical Properties HRT 301 18 37
Soil Science II: Chemistry and Nutrition HRT 302 18 37
Tree Climbing for Arborists HRT 304 15 39
Channelsc: Use, Safety, and Maintenance** HRT 358 6 —
Pruning Principles and Practices** HRT 321 15 38
Landscape Plants: Fall Trees and Shrubs HRT 331 12 38
Landscape Plants: Conifers** HRT 333 12 —
Landscape Plants: Spring Trees and Shrubs HRT 334 12 37
Insect Pests of Landscape Plants HRT 381 18 38
Tree Management** HRT 422 14 —
Urban Tree Care HRT 426 12 39
Written Tree Identification** HRT 440 8 —
Disease Identification & Management HRT 481 18 39
TOTAL REQUIRED HOURS 194

SUSTAINABLE GARDEN DESIGN—TRACK 4

Introduction to Plant Science HRT 300 16 37
Soil Science I: Physical Properties HRT 301 18 37
Landscape Plants: Broadleaf Evergreens** HRT 332 9 —
Landscape Plants: Spring Trees and Shrubs HRT 334 12 37
Landscape Plants: Spring Perennials HRT 336 9 38
Landscape Plants: Perennials & Grasses HRT 338 18 —
Landscape Plants: Annuals HRT 341 8 38
Landscape Plants: Bulbs HRT 342 12 37
Annual and Perennial Garden Maintenance** HRT 344 12 37
Plants for Landscaping HRT 358 16 37
Pruning Techniques HRT 321 15 38
Sustainable Garden Design HRT 557 20 38
Landscape Design History LAN 301 24 48
Graphics I LAN 311 24 49
TOTAL REQUIRED HOURS 203

*Course hours do not include exam hours
**Courses offered in the Fall/Winter Catalog
 advisable before you register for courses.
 for professional horticultural organizations, see page 55.

INTRODUCTION TO HYDROPONICS
Explore how to grow plants without soil using hydroponics, which promotes fast growth and requires less water and space than conventional gardens. You’ll learn what systems work best, which plants to choose, and how to make sure they get proper nutrition. While we will focus primarily on home-scale systems, the wider applications of hydroponics will also be discussed.
5 Tuesdays, 7/4–7/11, 6:15–8:15 pm
Maya Katz & Kate Lodvikov | NYBG | 194HRT141
$195/$215

NEW! CUT FLOWER FARMING
Join the cut flower farming revolution! Discover the basics of how to design, plant, grow, and harvest a cutting garden that will be productive throughout the season. You’ll get hands-on practice starting seeds to ensure you always have something fresh to cut. We will also cover traditional and unexpected annual and perennial cut flower species and varieties that grow well locally.
2 Saturdays, 4/13 & 4/27, 11 am–2 pm
Anne Marie Breyer | NYBG | 194HRT142
$115/$149

PLANT COMMUNITIES WORKSHOP
Plants surround us in a profusion of forms. But in naturally occurring landscapes, these combinations are far from random, and are often dictated by complex factors, which limit or encourage the growth of particular plants. In this workshop you will gain insight into how, where, and why these “plant communities” form. The concepts will fundamentally change the way you view natural landscapes and give you a new toolbox for designing plantings inspired by plant communities.
2 Fridays, 7/19 & 7/26, 9 am–1:30 pm
Jessica Arcate Schuler | NYBG | 201HRT140
$169/$185

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, systematic, and evolution, and become botanically literate. Gain practical experience in dissecting and analyzing plant structures.
7 Tuesdays, 3/24–5/26, 10:30 am–1:30 pm
Anna Pallotta | NYBG | 193HRT310
$453/$485

Soil Science I: Physical Properties HRT 300
chooses the 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, 3/7/4–5/1, 10:30 am–1:30 pm
Anna Pallotta | NYBG | 193HRT310
$453/$485

Soil Science II: Chemistry and Nutrition HRT 300
i.e. composted soil amendments, 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.
7 Tuesdays, 9/11–10/25 (no class 10/8), 10 am–12:40 pm
Vincent Simeone | NYBG | 201HRT310
$395/$435

LANDSCAPE PLANTS: SHRUBS 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.
7 Wednesdays, 3/13–4/24, 4–6 pm
Quinn Sullivan | NYBG | 193HRT341
$365/$395

7 Thursdays, 3/14–5/2, 10 am–12:40 pm
Michael Ruggiero | NYBG | 193HRT341
$395/$435

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 sages such as site, texture, color, and flowering and fruiting seasons. Review the trees, shrubs, groundcovers, annuals, and perennials suitable for landscaping in this region. Please bring the weather and wear comfortable shoes.
6 Saturdays, 3/7–5/11 (no class 4/20), 10 am–12:40 pm
Valerie D’Antonio | NYBG | 193HRT381
6 Sundays, 3/8–6/7, 10 am–12:40 pm
Michael Ruggiero | New Canaan Nature Center, New Canaan CT | 194HRT350A
5 Saturdays, 6/6–9/6, 10:30 am–1:35 pm
Vincent Simeone | NYBG | 193HRT381
6 Sundays, 9/20–10/25, 10 am–12:40 pm
Michael Ruggiero | NYBG | 201HRT381
$395/$435

LANDSCAPE PLANTS: SPRING TREES AND SHRUBS TRACK 4
This course is also required for the Landscape Design Certificate.
Learn the identification, classification, and landscape use of spring-flowering trees and shrubs. Major plant groups include Magnolia, Malus, Phlox, Lilium, and other genera, which are particularly ornamental in spring. The class goes out on the grounds rain or shine. 
Prerequisite: Introduction to Plant Science 5 Saturdays, 4/5–6/6 (no class 5/20) | NYBG | 193HRT341
5 Saturdays, 3/2–5/4, 10 am–12:40 pm
Michael Ruggiero | NYBG | 193HRT341
$395/$435

CARTER US Extension Service.
5 Thursdays, 4/11–5/9, 10 am–12:40 pm
Michael Ruggiero | NYBG | 193HRT341
$395/$435

$295/$325

36 | HORTICULTURE

Illustration: American Goldfinch on a Sunflowers. ©Sarah Why, NYBG Instructor
LANDSCAPE PLANTS: SPRING PERENNIALS TRACK 4
This course is designed for horticulturists and gardeners who are familiar with the basic culture of perennials. Review major groups of common species as well as more unusual types. Learn how to choose low-maintenance plants, and review the scientific and common names and the identification of approximately 60 perennials. Prerequisite: Introduction to Plant Science.

5 Wednesdays, 7/10–8/17 10 am–12 pm Michael Ruggiero | NYBG 204HRT341

$195/$325

LANDSCAPE PLANTS: LATE SEASON PERENNIALS & GREENS TRACK 4
Formerly Landscape Plants: Summer and Fall Perennials
This course is designed for horticulturists and gardeners who are familiar with the basic culture of perennials. Review major groups of common species as well as more unusual types. Learn how to choose low-maintenance plants, and review the scientific and common names and the identification of approximately 60 perennials. Prerequisite: Introduction to Plant Science.

5 Wednesdays, 9/4–10/19 10 am–12 pm
5 Sundays, 9/15–10/27 10 am–1 pm
Mark Kokinchak | NYBG 202HRT338

$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 flower arrangements, annuals, perennials, and bulbs. A list of required materials will be provided. Prerequisites: Graphics I, Landscape Plants: Spring Perennials and Landscape Plants: Late Season Perennials & Greens.

7 Thursdays, 9/12–10/30 10 am–1 pm
Laura Nkpa & | NYBG 202HRT551

$485/$635

INSECT PESTS OF LANDSCAPE PLANTS TRACKS 1, 2, & 3
Learn to identify the insects common to the northeastern United States that feed on woody and herbaceous plants and the damage that they cause. Learn to judge the severity of an infestation and to select and implement control measures based on the insect’s biology. Prerequisite: Introduction to Plant Science.

5 Wednesdays, 10/2–11/20 10 am–12 pm
Michael Ruggiero | NYBG 204HRT341

$295/$325

DISEASE IDENTIFICATION & MANAGEMENT TRACKS 1, 2, & 3
Learn about common diseases of woody and ornamental perennials and ornamental bulbs 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 identifying disease- and nutrient-related symptoms. Prerequisite: Introduction to Plant Science.

7 Wednesdays, 1/10–2/27 4:30–7:30 pm
Mark Kokinchak | NYBG 194HRT318

$545/$645

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, seed production, root initiation, stem and leaf cuttings, and layering. Materials included. Prerequisite: Introduction to Plant Science (or approval of the Program Coordinator)

7 Mondays, 4/5–5/27 (no class 5/20), 6–9 pm
Michael Ruggiero | NYBG 194HRT411

7 Mondays, 7/8–8/26 5:45–8:45 pm
Nick Storr | Manhattan 204HRT118

7 Mondays, 7/8–8/26 10 am–1 pm
Michael Ruggiero | NYBG 204HRT411C

7 Mondays, 9/11–10/16 (no class 10/9 & 10/14), 9:45–4:45 pm
Mitch Weilstein | NYBG 204HRT111

7 Tuesdays, 7/16–9/6 (no class 10/16), 9:45–4:45 pm
Nick Storr | NYBG 204HRT111P

$745/$855

TREE CLIMBING FOR ARBORISTS TRACK 1
Improve your climbing skills by learning techniques such as rope setting, knotted, body, bracing, doublecrotch, foot locking, and limb walking. Taught on the Garden grounds, this class offers expert instruction and critique. Wear comfortable clothing, sturdy work boots, and light cloth or leather gloves. All other equipment is provided. Please bring lunch.

3 Saturdays, 6/8–6/22 9:30–2:30 pm
Julian Piccinico and Francisco Davia NYBG 194HRT104

$395/$455

URBAN TREE CARE TRACK 3
Learn how trees survive the many perils of the urban environment. Soil compaction, construction damage, and land development practices can lead to tree decline and early mortality in trees. Examine the biology of trees, and learn how they respond to changes in the urban environment, particularly their response to natural and man-made stress. Explore techniques for assessing and preserving tree health and vigor, as well as new diagnostic tools and methods for tree and site analysis developed in urban sites.

Prerequisite: Introduction to Plant Science.

5 Saturdays, 9/11–10/26 11 am–2 pm
Julian Piccinico | NYBG 204HRT426

$295/$325

Don’t miss this all-day interactive workshop with acclaimed British garden designer/writer, Noel Kingsbury.

See page 47 for details.

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

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

SUMMER INTENSIVE CLASSES | June 10–August 24

If you have a limited amount of time, yet are devoted to learning about Horticultural Therapy, then Summer Intensive Classes are for you! All required courses are offered in a condensed format, making it easier than ever to start the Certificate this season.

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Dates</th>
<th>Times</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Horticultural Therapy</td>
<td>Monday, Wednesday &amp; Friday, 6/10, 6/12 &amp; 6/14, 10 am–3:30 pm</td>
<td>194THR301B</td>
<td></td>
</tr>
<tr>
<td>Horticultural Therapy for Older Adults</td>
<td>Monday, Wednesday &amp; Friday, 6/17, 6/19 &amp; 6/21, 10 am–3:30 pm</td>
<td>194THR401</td>
<td></td>
</tr>
<tr>
<td>Horticultural Therapy for Physical Rehabilitation</td>
<td>Monday, Wednesday &amp; Friday, 6/24, 6/26 &amp; 6/28, 10 am–3:30 pm</td>
<td>194THR403B</td>
<td></td>
</tr>
<tr>
<td>Horticultural Therapy for Exceptional Youth</td>
<td>Monday, Wednesday &amp; Friday, 7/8, 7/10 &amp; 7/12, 10 am–3:30 pm</td>
<td>201THR402</td>
<td></td>
</tr>
<tr>
<td>Activities Analysis for Horticultural Therapy</td>
<td>Saturdays, 7/13–7/27, 10 am–3:30 pm</td>
<td>201THR407</td>
<td></td>
</tr>
<tr>
<td>Horticultural Therapy in Behavioral Health Settings</td>
<td>Monday, Wednesday &amp; Friday, 7/22, 7/24 &amp; 7/26, 10 am–3:30 pm</td>
<td>201THR404</td>
<td></td>
</tr>
<tr>
<td>Horticultural Therapy Methods and Materials</td>
<td>Tuesday, Thursday &amp; Saturday, 7/30, 8/1 &amp; 8/3, 10 am–3:30 pm</td>
<td>201THR406</td>
<td></td>
</tr>
<tr>
<td>Garden Design for Special Populations</td>
<td>Fridays, 8/9–8/23, 10 am–3:30 pm</td>
<td>201THR408B</td>
<td></td>
</tr>
<tr>
<td>Horticultural Therapy Program Management</td>
<td>3 Saturdays, 8/10–8/24, 10 am–3:30 pm</td>
<td>201THR409B</td>
<td></td>
</tr>
</tbody>
</table>

Site visits are also scheduled in July and August. See class listings on page 45 for descriptions, instructors, and fees.

“Thinking of a possible second career, I enrolled in NYBG’s Horticultural Therapy Program. I loved that my instructors were practitioners in their fields. The assignments were stimulating, challenging and pulled everything together. I now provide hort therapy services at a nursing home in New Rochelle and I’m excited about the many opportunities to apply what I’ve learned.”

— JUNE HESLER, 2018 Graduate

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 HORT 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 teach cognitive, physiological, social, and psychological skills. Read about the history of horticultural therapy and the professional registration process are covered.

1. Saturdays, 6/1–6/15, 1 Saturday, 6/18 at NYBG, 10 am–3:30 pm
2. Monday, Wednesday, & Friday, 6/24, 6/26, & 6/28, 10 am–3:30 pm
3. Monday, Wednesday, & Friday, 7/8, 7/10, & 7/12, 10 am–3:30 pm

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 work practices.

HORT THERAPY FOR EXCEPTIONAL YOUTH
Children and adolescents with special needs are the focus of this course. Gain an understanding of the challenges of children with 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–tissue research and discover how horticultural therapy can aid in particular developmental and the learning process. Prerequisite: Introduction to Horticultural Therapy.

1. Monday, Wednesday, & Friday, 6/17, 6/19, & 6/21, 10 am–3:30 pm
2. Monday, Wednesday, & Friday, 7/16, 7/18, & 7/20, 10 am–3:30 pm

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

1. Monday, Wednesday, & Friday, 6/24, 6/26, & 6/28, 10 am–3:30 pm
2. Monday, Wednesday, & Friday, 7/8, 7/10, & 7/12, 10 am–3:30 pm
3. Monday, Wednesday, & Friday, 7/15, 7/17, & 7/19, 10 am–3:30 pm
4. Monday, Wednesday, & Friday, 8/12, 8/14, & 8/16, 10 am–3:30 pm

HORT THERAPY IN BEHAVIORAL HEALTH SETTINGS
Horticultural therapy is practiced in a multitude of behavioral health settings, including hospitals, inpatient psychiatric, 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.

1. Tuesday, Thursday, & Friday, 7/22, 7/25, & 7/27, 10 am–3:30 pm

COLLEGE CREDIT RECOMMENDATION
National College Credit Recommendation Service (NCCRS) recognizes the nine Horticultural Therapy courses to be the equivalent of college-level instruction level. In order to apply for one college credit per hour of coursework, a letter 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 $552 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 55 for more information.

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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.

SUMMER INTENSIVE PROGRAM | July 8–August 9
In five weeks, earn more than 30% of the course hours required for the NYBG Certificate in Landscape Design. Interactive classes with top landscape architects, designers, guest lecturers, plus trips to historic sites, and the Garden’s incomparable resources...this summer program gets your career on the fast track!

CLASSES
- Landscape Design History
- Graphics I and II
- Landscape Design 1
- Basic Plant ID
- Plants for Landscaping
- NYBG Curator-Led Tours
- Off-Site Garden Visits
- Guest Designer Presentations
- Open Studio Time

TUITION AND REFUNDS
$3,865 (Member) / $4,249 (Non-Member)
A $1,285 non-refundable deposit is due at registration. All materials needed for Graphics I and II are provided.

Questions about the Intensive? Call 718.817.8747 or email: adulted@nybg.org

Class size is limited for individualized attention. Enroll now!

“[At NYBG, I discovered more than a challenging curriculum: outstanding instructors, a community of nature enthusiasts, and inspiration through the ever-changing garden grounds. The Landscape Design Program gave me a strong foundation for lifelong learning aligned with my philosophy of a sustainable relationship with nature. As a result, my curiosity and passion for plants, art, and design evolved into an exciting and fulfilling new career as a landscape designer.”

— ANDREA SPUNBERG, 2018 Graduate, Landscape Designer, Leslie Needham Design LLC

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.

Questions? CONTACT PROGRAM COORDINATOR SUSAN COHEN AT LANCORORDINATOR@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 Thursdays, 3/7–3/21, 10 a.m.–1 p.m.
Daryl Briers | NYBG | 194LAN100A

3 Thursdays, 4/7–4/21, 10 a.m.–1 p.m.
Daryl Briers | NYBG | 194LAN101B

3 Mondays, 5/7–5/21 (no class 5/10), 10 a.m.–1 p.m.
Daryl Briers | NYBG | 194LAN105C

Tuesdays, 5/17–6/7, 6:15–9:15 p.m.
Kimberly Tryba | Manhattan | 201LAN100D

$165/$205

SUBURBAN LANDSCAPE DESIGN
Bringing innovative design to an ordinary front or back yard can transform an undersized or out-of-date area into a vibrant space. Presentations illustrate creative ways to enhance an entrance with paving and plants, make over a narrow side yard, and screen undesirable views. Topics include native trees and shrubs, new native plantings, and the use of boredom views, fencing, and terraces.

Friday, 5/29, 10 a.m.–1 p.m.
Jan Johnsen | NYBG | 193LAN160

$155/$165

NEW! DECORATIVE VEGETABLE GARDENS
Explore the origins of vegetable gardens and view examples of beautiful and productive ones in the U.S. and abroad—from Monticello in Virginia and Villandry in France to Babylonstoren in South Africa, whose contemporary, formal gardens boast over 300 plant varieties, each of which is either edible or has medicinal value. We will also discuss fencing, plant supports, and imaginative layouts, as well as the specific plants used in the designs.

Tuesday, 4/23, 10 a.m.–1 p.m.
Flornce Boggraafs | NYBG | 194LAN248

$155/$165

INTRO TO GREEN WALLS
Explore various types of green walls used in the United States and Europe. Learn what system might best fit your project, what it takes to build such a wall, and how much maintenance is needed. Gain an understanding of the process from design to installation of one interior and one exterior green wall system and which plants are the most appropriate.

Monday, 4/22, 6–8 p.m.
Hanna Packer | Manhattan | 194LAN110

$155/$165

BASIC PLANT ID
Are you a plant-lover eager to up your game and start distinguishing 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.

Tuesday, 6/7 & 6/21, 5–8 p.m.
Katie Bronson | NYBG | 194BOT310B

Saturday, 7/7, 10 a.m.–4 p.m.
Elle Barnes | Manhattan | 201BOT308C

$145/$155

INTRO TO GREEN ROOFS
Study basic design, installation, and maintenance strategies for green roofs. Using case studies and discussion, this introductory course explores approaches and standards for developing green roof technologies in the Metropolitan New York region.

Wednesday, 5/22, 6–8 p.m.
Hanna Packer | Manhattan | 194LAN112

$159/$165

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

2 Fridays, 6/7 & 6/14, 10 a.m.–2:30 p.m.
Gary Novasel | NYBG | 194LAN158

$225/$249

PLANT COMMUNITIES WORKSHOP
Plants surround us in a profusion of forms. But in naturally occurring landscapes, these combinations are far from random, and are often dictated by complex factors, which limit or encourage the growth of plant species. In this workshop you will gain insight into how, where and why these “plant communities” form. The concepts will fundamentally change the way you view natural landscapes, and give you a new toolbox for designing plantings inspired by plant communities.

2 Fridays, 7/19 & 7/26, 9 a.m.–1:30 p.m.
Jessica Arcate Schuler | NYBG | 201HRT140

$165/$185

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 plant scape expert Chris Raimondi.

Saturday, 3/9, 10 a.m.–2 p.m.
Chris Raimondi | Manhattan | 193LAN121A

$225/$249

PRACTICAL PLANT IDENTIFICATION
Gain an understanding of the process from design to installation of one interior and one exterior green wall system and which plants are the most appropriate.

Monday, 4/22, 6–8 p.m.
Hanna Packer | Manhattan | 194LAN110

$155/$165

Basic Plant ID
Are you a plant lover eager to up your game and start distinguishing 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.

Tuesday, 6/7 & 6/21, 5–8 p.m.
Katie Bronson | NYBG | 194BOT310B

Saturday, 7/7, 10 a.m.–4 p.m.
Elle Barnes | Manhattan | 201BOT308C

$145/$155

Intro to Green Roofs
Study basic design, installation, and maintenance strategies for green roofs. Using case studies and discussion, this introductory course explores approaches and standards for developing green roof technologies in the Metropolitan New York region.

Wednesday, 5/22, 6–8 p.m.
Hanna Packer | Manhattan | 194LAN112

$159/$165

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

2 Fridays, 6/7 & 6/14, 10 a.m.–2:30 p.m.
Gary Novasel | NYBG | 194LAN158

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Plant Communities Workshop
Plants surround us in a profusion of forms. But in naturally occurring landscapes, these combinations are far from random, and are often dictated by complex factors, which limit or encourage the growth of plant species. In this workshop you will gain insight into how, where and why these “plant communities” form. The concepts will fundamentally change the way you view natural landscapes, and give you a new toolbox for designing plantings inspired by plant communities.

2 Fridays, 7/19 & 7/26, 9 a.m.–1:30 p.m.
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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 plant scape expert Chris Raimondi.

Saturday, 3/9, 10 a.m.–2 p.m.
Chris Raimondi | Manhattan | 193LAN121A

$225/$249

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, 9/16, 9:30–11:30 a.m.
Hanna Packer | Manhattan | 201LAN171A

$135/$155

Certification Requirements
Course Code Hours Page
Tier 1 – Introductory Classes
Landscape Design History LAN 301 24 48
Graphics I LAN 311 24 48
Landscape Measurement LAN 340 12 48
Landscape Plants: Fall Trees and Shrubs HRT 331 12 38
Landscape Plants: Spring Trees and Shrubs HRT 334 12 37
Plants for Landscaping HRT 358 16 37

Tier 2
Landscape Design III: Site Analysis and Schematic Design LAN 401 24 48
Landscape Design II: Design Development LAN 402 24 49
Estimating† LAN 380 9 —
Graphics II LAN 411 24 49
Grading‡ LAN 421 24 —
Site Materials and Details LAN 422 24 49

Tier 3
Drainage LAN 425 12 49
Graphics III LAN 417 24 —
Landscape Design III: Planting Design LAN 403 24 49
Professional Practice for Landscape Designers LAN 481 12 49
Landscape Design IV: Design and Construction LAN 530 33 49
Portfolio and Presentation Skills LAN 555 15 49

Total Required Hours
349

*Course hours do not include exam hours
**Courses offered in the Fall/Winter Catalog
†Courses with a prerequisite before you can register
‡Courses with a prerequisite before you can register

For professional organizations, see p. 55.

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.

Instructor Bio
Dr. Noel Kingsbury
Internationally celebrated garden designer/writer Dr. Noel Kingsbury gets students down on hands and knees to explore and understand how perennials are linked to their natural habitats and ecology—and how gardeners and designers can use that knowledge to help their plants survive and thrive for maximum interest with minimum maintenance. This engaging full-day workshop encourages participants at all levels to closely observe garden and landscape plants, focusing on their growth and competitiveness throughout the year, their prospects for longevity, and their suitability for a variety of garden locations. Best known for an ecological or naturalistic approach to planting design, Dr. Kingsbury has written 20 books on plants and gardens, three of them in collaboration with Dutch designer/plantsman Piet Oudolf.

Tuesday, 9/16, 10 a.m.–4 p.m.
Noel Kingsbury | NYBG | 194LAN113 | $225/$249

The Rabbit’s Eye View: A Workshop with Noel Kingsbury
..
UNEVEN PAVING STONES ENCOURAGE
STEVE F. BYRNS AND BAYTA GORIN
NYBG & UNTERMYER GARDENS
ARCHITECTURE AND SPATIAL DEVELOPMENT OF THE GARDENS, AS WELL AS THEIR INTENDED SPIRITUAL AND SYMBOLIC
CENTURY WITH STEPHEN F. BYRNS, FOUNDER OF THE UNTERMYER GARDENS CONSERVANCY. HE WILL DISCUSS THE
ENVISIONED TO MAKE PARADISE MANIFEST ON EARTH, PERSIAN GARDENS ARE KNOWN FOR THEIR MASTERFUL USE OF

LANDSCAPE DESIGN

$195/$215
MONDAY, 6/24, 9:30 AM–3:30 PM

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.

STEPHEN MORRELL

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.

PREREQUISITES: LANDSCAPE DESIGN I AND GRAPHICS I

PRAETORIUS GRAPHICS

2014 LAN 411 B

Fridays, 9/27, 10 AM–3:30 PM

STEVE F. BYRNS AND BAYTA GORIN

UNEVEN PAVING STONES ENCOURAGE

GARDEN HISTORY:

EXPLORE GARDEN HISTORY: PERSIAN AND JAPANESE DESIGN

UNEVEN PAVING STONES ENCOURAGE

UNEVEN PAVING STONES ENCOURAGE

UNEVEN PAVING STONES ENCOURAGE
PHOTOGRAPHY

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

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.

Thursday, 3/14, 6–9 pm
Mindy Veissid | Manhattan | 193GWP261B
Saturday, 5/11, 11 am–2 pm
Mindy Veissid | NYBG | 194GWP201A
$59/$65

FLASH PHOTOGRAPHY: THE ORCHID SHOW
Photograph The Orchid Show using your DSLR 100–300 mm telephoto lens, and dedicated speedlights. Master techniques to achieve the best lighting and exposure for these vibrant flowers without the use of tripods or monopods. Afterward, return to the classroom for a review and critique of your images. Please bring lunch.

Tuesday, 4/2, 9 am–3 pm
Jeffrey Falk | NYBG | 194GWP317
$109/$119

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, 4/14 (Rain date 4/28), 4:30–7:30 pm
Douglas Dubler | NYBG | 194GWP238
$59/$65

ABSTRACT PHOTOGRAPHY
Experiment with composing abstract images using botanical subjects, taking inspiration from Georgia O’Keeffe. An expert at turning 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. Digital SLR cameras preferred.

Wednesday, 4/24, 2–5 pm
Douglas Dubler | NYBG | 194GWP231A
Saturday, 4/10, 2–5 pm
Douglas Dubler | NYBG | 201GWP211B
$59/$65

BOTANICAL BLUES: CYANOTYPE
Harness sunlight to create dreamlike botanical images in rich blues. Pioneered in the 1840s, cyanotype is a type of photography that doesn’t use a camera. Under the expert guidance of artist William Waltzman, you will make 4–6 prints, while exploring the best ways to prep your paper with light-sensitive chemicals and compose your image using pressed plants.

Saturday, 5/18 (Rain date 5/19), 10:30 am–3 pm
William Waltzman | NYBG | 194GWP128A
Saturday, 7/13 (Rain date 7/14), 10:30 am–3 pm
William Waltzman | NYBG | 201GWP128B
$139/$155

BOTANICAL PHOTOGRAPHY
Explore macro photography using your camera’s macro lens, and a keen eye for detail. Over his four-decade career, Douglas Dubler has tenaciously pursued the elusive fine art print. Now, in this in-depth workshop, he will share his insights on how to achieve superior results in digital printing, from capture/smart, monitor calibration, file preparation, color management, custom profiling, printing, and paper selection.

Wednesday, 7/16, 10 am–2 pm
Douglas Dubler | NYBG | 201GWP217
$75/$85

INTRODUCTION TO BLACK & WHITE PHOTOGRAPHY
Learn practical techniques and tips for using the iPhone, the world’s most-used camera. Learn to “see as a professional” and make proper use of your focus, flash, self-timer and zoom capabilities. See how preparation, lighting, and environmental conditions can help create unique images. Fun, weekly homework assignments and in-class critiques will challenge you to play with perspective, framing, cropping, color, size, emotion, mood and more. Familiarity with iPhone basics is required.

4 Tuesdays, 5/28–6/25 (no class 6/11), 10 am–1 pm
Donald Gambino | NYBG | 194GWP161
$190/$215

CLOSE-UP & MACRO PHOTOGRAPHY
Dive in to using low-budget table-top lighting equipment and techniques to make compelling photos of botanical subjects and floral arrangements. Photographer David Samuel Stern will discuss the basics of still life lighting design and walk you through manual camera controls to achieve optimal effect, and get the foundation on which to craft photos as striking as the old Dutch Masters paintings! Please bring a camera with manual controls and a tripod.

Sunday, 6/30, 2–5 pm
David Samuel Stern | NYBG | 194GWP228
$75/$85

ADVANCED IPHONE PHOTOGRAPHY
Learn to let intuition guide your photography.

Wednesday, 4/16, 6:30–8 pm
Donald Gambino | NYBG | 194GWP311A
Friday, 3/22, 8:30–10 am
David Samuel Stern | NYBG | 194GWP229A
$75/$85

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 learn is hands-on, and you will have your own equipment. Images will be projected on screen for discussion and review.

Saturday, 6/8, 9 am–3 pm
Jeffrey Falk | NYBG | 194GWP228
$109/$119

NEW! THE ORCHID SHOW: SPECIAL PHOTOGRAPHERS HOURS
For serious photographers only, this is a rare opportunity to capture the exquisite beauty of The Orchid Show without casual visitors present. Bring your tripod (the only time we’ll allow them in the Conservatory!), since you’ll be shooting with available light. Please minimize gear—no backpacks or screens.

Friday, 3/22, 8:30–10 am
193GWP225A
Tuesday, 4/16, 6:30–8 pm
194GWP229B
$49/$59
Wellness classes are presented for informational purposes only and are not intended for self-medication.
CONTINUING EDUCATION UNITS, PROFESSIONAL SOCIETIES, & ACADEMIC PROGRAMS

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 skillbook exchange, and topical discussions. We invite all current Certificate students and alumni to join us! TSBA is recognized as an ASBA Circle. Meetings are free and held once a month at NYBG. Please contact Jeanne Reiner reinerj@nysap.com or Susan Spaunatar spaanatar@nysap.com for more information.

Landscape Design Students and Alumni Association (LDSA) - LSDA 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 Willard at 914-723-4010 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 shows. Invited events as the Tournament of Roses Parade, the Academy Awards, and the White House Inaugural Ball. AIFD 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 1,100 members throughout the US and in 20 other countries. Dedicated to promoting awareness of contemporary botanical art, ASBA provides educational and networking opportunities through an annual conference and quarterly journal. The Botanical Artist. ASBA maintains their headquarters at NBG on the third floor of the Watson Education Building. ASBA brings the best of contemporary botanical art to the public by curating the NBG’s ‘Trivial and other exhibitions. For membership and more information visit asba.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 Preparatory for Pesticide Applicator Certification Examination (HR 357) offered at the Garden, and pass a State-administered exam. Applicators must periodically apply for recertification and must complete a number of courses that the DEC and the New Jersey State Department of Environmental Protection (DEP) have approved for recertification credit.

The Guild of Natural Science Illustrators (GNSI) - The Guild is an international organization whose members strive to maintain and further the field, assist others in entering it, and encourage high standards of competence. 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 isarbor.com.

Northeast Organic Farming Association (NOFA) - NOFA offers CEUS to Accredited Organic Land Care Professionals (OLCP) who have made a commitment to practice in accordance with NOFA’s Organic Land Care Standards, to pursue ongoing education in methods 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 & BCC) - 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 parks and public 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, botanical 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 ACCT 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 nbg.org/edu/hort or call 718.817.8971.
### Registration

Registration is 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

**Enrollment on the Garden Class Days** You must bring your printed confirmation letter for admission to the Garden, and present it at the Moshulu 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 beginning at 7:30 am for a recorded message on the status of your class.

**Refunds and Withdrawals** No discounts will be granted for missed classes. There are no refunds or credits 24 hours before a course begins. A refund will be issued if your class is canceled due to low enrollment. If you wish to withdraw from a course before it begins, you must notify the Registration Office LONG 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

**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 718.817.8713 or visit nybg.org/membership.

**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.

### The Living Art of Roberto Burle Marx, Exhibition Partners:

- LuEsther T. Mertz Charitable Trust
- The Andrew W. Mellon Foundation
- Fotografiska

### The National Endowment for the Humanities

Additional support is provided by the Anne Fontaine Foundation. Exhibitions in the End A.H. Pavilion are made possible by the Estate of End A. Haupt.

Additional support for Mertz Library exhibitions has also been provided by The Andrew W. Mellon Foundation and by a Challenge Grant from the National Endowment for the Humanities.

Exhibitions in the Arthur and Janet Rosen Gallery are made possible by support from the Arthur and Janet Rosen Fund.

### 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.
Without plants, life on Earth would be impossible. They give us so much: oxygen, food, shelter, medicine. Plants lift our spirits and inspire us. But we often overlook them—even as threats to their existence have never been greater.

At NYBG in 2019, we're showing our love for plants with a year of exhibitions and programs exploring the essential connections between plants, people, and the environment.

Join us and spread the #plantlove.