NYBG/125

ADULT EDUCATION  |  FALL 2016–WINTER 2017

NEW YORK BOTANICAL GARDEN
Welcome!

The year 2016 marks New York Botanical Garden's 125th Anniversary. Education has always been at the heart of our mission, and we proudly continue that tradition today. From gardening and horticulture to art and design, NYBG offers classes for adult learners at all levels. Study with us for an afternoon—or for a lifetime!

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 are welcome to 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… now could be the time to upgrade your professional profile and actively pursue a prestigious NYBG Certificate. Acquire new skills and contacts. Demonstrate 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—and we have a program that fits your needs as well as your schedule.

Choose from a wide variety of day, evening, and weekend classes at the Garden or at our Midtown Education Center.

Registration is now open—please visit nybg.org/adulted or call 800.322.NYBG (6924)

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

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

2 Landscape Design Portfolios Lecture Series
   Artistic Expression in the Landscape

3 Winter Lecture Series
   Great Gardens and Their Legacies

4 Andrew Carnegie Distinguished Lecture
   A Rothschild Evening: An Intimate Look at
   Two English Rothschild Gardens

4 Film Screening & Discussion
   Piet Oudolf: Fall, Winter, Spring, Summer, Fall

5 Exhibition & Symposium
   What in the World is a Herbarium?
   Entwined: Plants, Exploration, and Our Future

5 Coming in April 2017!
   Master Urban Naturalist Certificate

7 Botanical Art & Illustration

13 Botany

17 Crafts & DIY

19 Floral Design

25 Gardening

33 Horticulture

41 Horticultural Therapy

45 Landscape Design

50 Photography

53 Wellness

54 Academic Policies & Procedures

55 Professional Societies, CEUs,
   & Academic Programs

56 Classes at Midtown Education Center

inside back cover Registration & General Information

ABOUT THE COVER: HIGH NOON, LOIS WOOLLEY
On a warm, sunny Sunday in June—in celebration of our exhibition
Impressionism: American Gardens on Canvas—two dozen plein-air
artists spread out across the Garden grounds to capture familiar scenes
in a new light. Their work, all completed that day, is featured on our
cover and throughout this catalog. For more information on the artists
and paintings, visit nybg.org/impressionism.
18th Annual Landscape Design Portfolios Lecture Series

ARTISTIC EXPRESSION IN THE LANDSCAPE

Outstanding landscape architects from around the world showcase their signature projects, working methods, and design philosophies. This year’s lineup features a passionate and influential trio of landscape architect/artists who are redefining what we mean by landscape. Their bold designs for public spaces, regenerated urban sites, and city centers tell stories that resonate on profound emotional, intellectual, and poetic levels—reflecting a deep, personal connection between people and place.

MARTHA SCHWARTZ
Design and Sustainability

As principal of Martha Schwartz Partners, her iconic and often provocative designs include the dramatic Fengming Mountain Park in Chongqing, China; the redeveloped Place de la Republique in Paris; Grand Canal Square, centerpiece of Dublin’s renovated Docklands; and New Jersey’s Winslow Farm Conservancy, a 600-acre site marrying art, agriculture, and reclamation. Her many honors include the Honorary Royal Designer for Industry Award, the Cooper Hewitt National Design Award, and an ASLA Council of Fellows Award. A Professor at the Harvard Graduate School of Design, Schwartz lectures internationally on sustainable cities and the urban landscape, and her work is featured widely in publications and exhibitions.

September 26 | 171LAN801A

CHARLES JENCKS
The Universe as Artist

“What is a garden if not a celebration of our place in the universe?” asks world-renowned architectural theorist and land artist Charles Jencks. His massive Crawick Multiverse transformed an abandoned open cast Scottish coal mine into a 55-acre “cosmic landscape” that opened to the public in 2015. An influential critic, celebrated lecturer, and author of more than 30 books, including the bestselling The Language of Post-Modern Architecture, Jencks has long explored the intersection of science and spirituality, cosmology and landscape design. His notable works include the physics-inspired Garden of Cosmic Speculation in Southwest Scotland; Edinburgh’s Landform Ueda, a design reflecting and commenting on chaos theory; and the Parco Portello in Milan, where the underlying concept is the Rhythm of Time. Jencks and his late wife, Maggie Keswick, co-founded Maggie’s Centre, a network of free cancer patient support centers designed by influential architects, including Frank Gehry, Norman Foster, and Rem Koolhaas.

October 17 | 172LAN801B

RAYMOND JUNGLES
Integrity and Relevance

In exquisite gardens inspired by the lush native plants of his adopted home of Miami, landscape artist/architect Raymond Jungles has used nature as a means of self-expression over the course of his 35-year career. His original and inviting green spaces, like those of his mentor, master landscape architect Roberto Burle Marx, bring the comfort and beauty of nature into built settings, where his modernist groupings of geometric shapes highlight the natural aspects of indigenous subtropical plantings, water features, and native stone. The interplay between people and plants in his signature public projects—such as the Naples Botanical Garden, the Leon Levy Native Plant Preserve, and the Miami Beach Botanical Garden—embodies Jungles’s personal and design principles—integrity, relevance, and honoring nature. Jungles is currently working on designing new plantings for the landmark atrium gardens in the Ford Foundation’s headquarters in New York City.

November 7 | 172LAN801C

3 Mondays, September 26, October 17, November 7, 6:30–7:30 pm
Scandinavia House, 58 Park Avenue at 38th Street, Manhattan

©Roger Foley Photography

SUSAN COHEN, FASLA, RLA, COORDINATOR OF THE LANDSCAPE DESIGN PROGRAM, ORGANIZED THIS SERIES.
Registration fee for each lecture: $23/$26. Register for the series and receive a discount: 172LAN801D | $62/$69
SUPPORT PROVIDED BY THE HEIMBOLD FOUNDATION.
17th Annual Winter Lecture Series

GREAT GARDENS AND THEIR LEGACIES

Chanticleer… Hermannshof… Great Dixter. Three beloved, and influential gardens—each founded on a singular vision, each with an evolving legacy. Join us for this year’s fascinating series, as three innovative gardeners take us inside the vision to share the challenges of maintaining—and expanding—these iconic spaces. Plantsmen as well as stewards, they must protect past, present and future… balancing art, nature, technology, and the expectations of an ever-growing public.

R. WILLIAM THOMAS

The Art of Gardening at Chanticleer

“A three-dimensional work of ever-changing art” and “planted to perfection”… Chanticleer has been called America’s most romantic, imaginative and exciting public garden. Left to be a public garden in 1990 by Adolph Rosengarten, Jr, who first called it a “pleasure garden,” Chanticleer has evolved into a learning garden as well—a source of inspiration to home gardeners. The beautiful grounds encompass 15 distinct garden “rooms,” with creative, impressionist plantings seamlessly woven into rolling lawns, curving pathways, gentle hills, and magnificent woodlands.

Director and Head Gardener Bill Thomas continues to expand on the bold, innovative legacy of Chanticleer—one where gardeners have artistic freedom to choose plants, to integrate sculpture, to design and experiment—which has made this garden so special and so cherished.

Bill Thomas came to Chanticleer in 2003, as Executive Director and head gardener, after 26 years at Longwood Gardens, working in horticulture, and education. He has co-authored 4 books, most recently The Art of Gardening: Design Inspiration and Innovative Planting Techniques from Chanticleer in 2015.

January 26 | 173GAR801A

CASSIAN SCHMIDT

The New Perennial Movement at Hermannshof Gardens

Over the past 30 years, Hermannshof, the acclaimed public garden nestled in the hills north of Heidelberg, has broken new ground and set trends with its innovative blend of ecology, artistry, and imagination. Hermannshof’s dynamic mix of unique perennials and naturalistic grasses arranged by habitat and origin—woods, prairie, steppe, pond edge, dry meadow—creates an all-season kaleidoscope that is inspired by nature, without replicating it.

Director Cassian Schmidt has kept Hermannshof at the forefront of planting design, building on a legacy that includes the pioneering concepts of the celebrated Richard Hansen (Perennials and Their Garden Habitats), while expanding the garden’s artistic and ecological expression in simple, low-maintenance ways. His signature methods allow for experimental planting combinations with applications for private and public gardens.

With a landscape architecture degree, a Master’s in horticulture, and more than 25 years of experience as a professional plantsman—including 18 as Hermannshof Director—Cassian Schmidt is a designer, professor, author, and lecturer. His work uses natural plant communities as models for sustainable plant combinations in urban environments and private gardens.

February 23 | 173GAR801B

AARON BERTELSEN

Gardening at Great Dixter

Great Dixter—a Tudor house with its innovative and provocative Arts and Crafts garden was the family home of legendary gardener and writer Christopher Lloyd. His creativity and enthusiasm brought it to splendor in the mid-20th century, making it a destination for horticultural pilgrims from around the world.

While Dixter is famous for its clever succession plantings, effusive herbaceous long border and naturalized meadow areas, the kitchen garden is also an integral part of the plan. Lloyd was passionate about fruit and vegetables and Aaron Bertelsen has taken on that legacy as gardener-cook, creatively managing the vegetable garden… and kitchen.

Aaron’s love of gardening dates to his New Zealand childhood, working in his grandfather’s vegetable garden. Arriving in England in 1996 to volunteer at Great Dixter, he earned a Diploma in Horticulture at the Royal Botanic Gardens, Kew, then spent two years at Jerusalem Botanical Gardens, where he is still a trustee. Bertelsen returned to Great Dixter in 2005 and is regularly invited to speak about gardening at events worldwide. This spring, his garden-to-table recipes will be published in The Great Dixter Cookbook.

March 30 | 173GAR801C

Registration fee for each lecture: $32/$35. Register for the series and receive a discount: 173GAR801D | $85/$95 CEUs

Funded in part by the Barbara Cushing Paley Fund.
COMING THIS FALL!

**Piet Oudolf: Fall, Winter, Spring, Summer, Fall**

Documentary Film Screening & Discussion

“I think it's the journey in your life to find out what real beauty is, of course, but also to discover beauty in things that are at first sight not beautiful.”

—Piet Oudolf

Best known for the astounding success of New York's High Line and Chicago's Lurie Garden, Piet Oudolf is arguably the most influential garden designer of the last quarter century.

This new, visually stunning documentary by award-winning nonfiction film maker Thomas Piper gives viewers a rare and insightful look at the inspirational Dutch designer and plantsman—taking us inside Oudolf's creative process, from landscape blueprints, to theories on beauty, to the ecological implications of his ideas. Intimate discussions take place in Piet's own gardens at Hummelo, and on visits to his signature works in Chicago, Nantucket Island, England, Holland, and New York—including his planting design for The New York Botanical Garden's Marjorie G. Rosen Seasonal Walk. Piper’s immersive cinematography creates the experience of being present in Oudolf's gardens, in all four seasons.

The film also follows Oudolf as he designs and installs a major new garden at Hauser & Wirth Somerset, a gallery and arts center in Southwest England. And we sit in on candid conversations between Piet and some of his many collaborators including garden writer Noel Kingsbury, landscape ethicist Rick Darke, and nurseryman and designer Roy Diblik.

After the screening, join Director Thomas Piper and others for a lively discussion of the film and Oudolf's impact on landscape and gardening design.

Date to be announced.

Ross Hall, NYBG | 172HRT818 | $10/$20
EXHIBITION

What in the World is a Herbarium?

March 4–October 29, 2017
Ross Gallery, NYBG

With more than 7.8 million preserved specimens the William and Lynda Steere Herbarium is the largest herbarium in the Western Hemisphere. This special exhibition celebrates the Steere Herbarium as the centerpiece of the Garden’s botanical research program, and a priceless resource for scholars from around the world. Through this exhibition, learn some of the many ways that Garden scientists are working to study and save the plants of the world.

SYMPOSIUM

Entwined:
Plants,
Exploration,
and Our Future

Friday, March 3
10 am, Ross Hall

Exploration has been at the core of the Garden’s mission since the institution’s founding—and is needed even more now in the face of global environmental change. This symposium focuses on the vital role exploration plays in understanding the entwined relationships of plants to human and ecosystem well-being, and the challenges for sustaining those essential relationships over time.

Exploration takes place at all scales and in all places—from surveys of giant trees in tropical rain forests to investigations of DNA sequences in plant research laboratories—empowering us to understand plants in whole new ways, both today and tomorrow.

Moderated by Barbara M. Thiers, Ph.D., Entwined will feature presentations and a panel discussion by Garden scientists working in locations as near as New York City and as far-flung as the island nation of Vanuatu. After the symposium, attendees are invited to the Arthur and Janet Ross Gallery for a preview of the exhibition What in the World is a Herbarium?

COMING IN APRIL 2017!

Master Urban Naturalist Certificate

“Nature is not the antithesis of urban. It is everywhere—underfoot, overhead, and all around us.”

—Elizabeth Barlow Rogers, author of Green Metropolis

Starting this spring, The New York Botanical Garden will offer an exciting new program: the Master Urban Naturalist Certificate. We created this nine-month series of courses in response to student interest, demand from the science and conservation communities, and the growing awareness of the value of urban biodiversity.

The Master Urban Naturalist Certificate is for anyone with a passion for the natural world who wants to take it to the next level. It’s for those who love nature and want to help improve the environmental literacy in people of all ages who live in urban settings.

Graduates of the program will be qualified to work as volunteer or entry-level researchers, collecting quality data needed by scientists studying nature in cities. This research can cover invasive or endangered species… interactions between plants, pollinators and fungi… seasonal changes affecting plants and wildlife… and the impacts of habitat destruction and climate change on species and ecosystems.

PROGRAM BASICS

In less than one year you will receive a broad but focused overview of the living and non-living components that make up nature in today’s urban landscapes. Through classroom and fieldtrip sessions in our green metropolis, you will gain the perspective, confidence, and practical knowledge to observe and record scientifically useful information about plants, animals, and fungi in terrestrial, freshwater, and marine ecosystems, and you’ll learn how to interpret this knowledge for aspiring citizen scientists of all ages. And you’ll graduate with a prestigious NYBG Certificate that highlights the quality of your training and the seriousness of your commitment.
BOTANICAL ART & ILLUSTRATION
Are you a plant person, an art person, or both? Contemporary botanical art combines these interests to capture the beauty of the natural world. NYBG offered North America's first formal botanical art certificate program, and has remained a leader in the discipline for more than three decades. A well-rounded array of courses can be enjoyed singly, just for fun, or lead to a Certificate.

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 (and animals if selected).
• Learn elements of successful composition—whether for scientific illustration or fine artwork.
• Through electives, learn the history of botanical art, and explore various specialty subjects.
• Develop a personal aesthetic and a strong artistic identity.
• Enjoy access to the exceptional collection of botanical art in the Garden’s LuEsther T. Mertz Library and the library of the American Society of Botanical Artists.

STUDENT INFORMATION

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

HOMEWORK:
Homework will be assigned and it is expected that it will be completed in order to fully benefit from the class. A final project will be due if you wish the course to count toward a Certificate.

FINAL PROJECT FOR CERTIFICATION:
If you plan to graduate in June 2017, the final project proposal must be approved by the Coordinator no later than October 20, 2016. Guidelines for the Botanical Art & Illustration final project can be obtained from the Registration Office (718.817.8747).

QUESTIONS? CONTACT ROBIN JESS
AT 718.817.8747 OR BILCOORDINATOR@NYBG.ORG

ROBIN A. JESS, Program Coordinator
LAURA VOGEL, Foundations Advisor
MARY CHRISTIANSEN, Natural Science Advisor

The Program Coordinator, Robin A. Jess, is the Executive Director of the American Society of Botanical Artists. She was a freelance illustrator for Dr. Arthur Cronquist for 15 years at NYBG and the original coordinator of the Botanical Art and Illustration Certificate Program. Robin has received several fellowships and grants for her work, including the 1990 Distinguished Artist Fellowship from the New Jersey State Council on the Arts.
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.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CODE</th>
<th>HOURS</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant Morphology for Botanical Illustrators</td>
<td>BIL 300</td>
<td>20</td>
<td>9</td>
</tr>
<tr>
<td>Botanical Drawing I: Methods and Materials</td>
<td>BIL 301</td>
<td>18</td>
<td>10</td>
</tr>
<tr>
<td>Botanical Drawing II: Developing Your Skills</td>
<td>BIL 302</td>
<td>18</td>
<td>10</td>
</tr>
<tr>
<td>Botanical Drawing III: Focus on Flowers</td>
<td>BIL 303</td>
<td>18</td>
<td>10</td>
</tr>
<tr>
<td>The Basics of Visual Composition</td>
<td>BIL 421</td>
<td>18</td>
<td>10</td>
</tr>
<tr>
<td>Botanical Watercolor</td>
<td>BIL 331</td>
<td>24</td>
<td>10</td>
</tr>
<tr>
<td>Practical Aspects of Botanical Art</td>
<td>BIL 392</td>
<td>10</td>
<td>11</td>
</tr>
</tbody>
</table>

Plus one of the following:

- Internet Tools for Creatives, Part I: Social Media
- Internet Tools for Creatives, Part II: Website
- Pen and Ink I: Techniques
- Colored Pencil I: Techniques
- Elective courses

TOTAL REQUIRED HOURS 218**

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.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CODE</th>
<th>HOURS</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Botanical Oil Painting—An Introduction</td>
<td>BIL 321</td>
<td>15</td>
<td>9</td>
</tr>
<tr>
<td>Drawing Trees</td>
<td>BIL 436</td>
<td>10</td>
<td>9</td>
</tr>
<tr>
<td>Conifers in Watercolor</td>
<td>BIL 330</td>
<td>10</td>
<td>9</td>
</tr>
<tr>
<td>Colored Pencil II: Applications</td>
<td>BIL 416</td>
<td>18</td>
<td>10</td>
</tr>
<tr>
<td>Composites in Colored Pencil and Watercolor</td>
<td>BIL 605</td>
<td>16</td>
<td>9</td>
</tr>
<tr>
<td>The Secrets of Green Leaves</td>
<td>BIL 312</td>
<td>15</td>
<td>10</td>
</tr>
<tr>
<td>Flower Grouping</td>
<td>BIL 337</td>
<td>18</td>
<td>11</td>
</tr>
<tr>
<td>Oriental Lilies</td>
<td>BIL 339</td>
<td>9</td>
<td>11</td>
</tr>
<tr>
<td>Drawing Ducks</td>
<td>BIL 382</td>
<td>12</td>
<td>11</td>
</tr>
<tr>
<td>Eastern Woodland Habitat</td>
<td>BIL 341</td>
<td>12</td>
<td>11</td>
</tr>
<tr>
<td>Pineapples</td>
<td>BIL 354</td>
<td>16</td>
<td>11</td>
</tr>
<tr>
<td>Fabulous Ferns</td>
<td>BIL 344</td>
<td>15</td>
<td>11</td>
</tr>
<tr>
<td>Drawing from Pressed Plants</td>
<td>BIL 310</td>
<td>12</td>
<td>11</td>
</tr>
<tr>
<td>Lettering with Copperplate</td>
<td>BIL 427</td>
<td>15</td>
<td>9</td>
</tr>
</tbody>
</table>

**Plus a final project that meets Certificate standards

Courses with a prerequisite before you can register

For the Botanical Art & Illustration Students & Alumni Group (BILSA) and professional art organizations, see p. 55.

THE CLASSES

BOTANICAL WATERCOLOR FOR BEGINNERS AND BEYOND

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

5 Mondays, 9/12–10/24 (no class 10/3 & 10/10), 10 am–2:30 pm
Laura Vogel | Manhattan | 171BIL140A

5 Mondays, 11/7–12/12 (no class 11/21), 10 am–2:30 pm
Laura Vogel | Manhattan | 172BIL140B

5 Mondays, 1/9–2/13 (no class 1/16), 10 am–2:30 pm
Laura Vogel | Manhattan | 173BIL140C

5 Saturdays, 1/21–2/25 (no class 2/18), 10 am–2:30 pm
Laura Vogel | NYBG | 173BIL140D

5 Mondays, 3/13–4/17 (no class 4/10), 10 am–2:30 pm
Laura Vogel | Manhattan | 173BIL140E

$325/$359

BOTANICAL DRAWING FOR BEGINNERS

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

4 Thursdays, 9/22–10/13, 6–9 pm
Susan Sapanara | Manhattan | 171BIL145A

4 Tuesdays, 10/4–10/25, 10 am–1 pm
Mary Christiansen | NYBG | 172BIL145B

4 Mondays, 11/28–12/19, 6–9 pm
Susan Sapanara | Manhattan | 172BIL145C

4 Thursdays, 2/9–3/2, 10 am–1 pm
Mary Christiansen | NYBG | 173BIL145D

$219/$239

FALL LEAVES IN WATERCOLOR WORKSHOP

Practice basic watercolor techniques to capture the beautiful colors and details of autumn leaves. All levels of skill are welcome; no previous drawing or painting experience is required.

Sunday, 10/16, 10 am–3:30 pm
Laura Vogel | NYBG | 172BIL203B

Sunday, 10/30, 10 am–3:30 pm
Laura Vogel | NYBG | 172BIL203C

$89/$99

INSTRUCTOR BIOS CAN BE FOUND ONLINE AT NYBG.ORG/ADULTED
**NEW! DRAWING TREES**
This field-sketching experience focuses on the rendering of trees using technical pens on watercolor blocks. Begin with classroom discussions of tree architecture and general direction, and then go outdoors to draw. Apply observational skills and sketching techniques, including contour drawing, to the broader field of nature sketching to complete one drawing at the end of the first day. Please dress for the outdoors. Prerequisite: Botanical Drawing I
2 Saturdays, 9/17 & 9/24, 10 am–3:30 pm
Dick Rauh | NYBG | 171BIL436
$239/$265 Certificate Elective

**NEW! CAPTURING THE CHARACTER OF TREES**
Explore special drawing techniques and create dynamic compositions that capture the nature and “personality” of NYBG’s exquisite specimen trees. A weeping willow, a sturdy oak, a young sapling just branching out—these all can be visual metaphors for human emotion and expression. Please dress for the outdoors.
Friday, 9/30, 10 am–3 pm
Frank Guida | NYBG | 172BIL205
$89/$99

**NEW! PLANT MORPHOLOGY FOR BOTANICAL ILLUSTRATORS**
Examine the enormous variety of forms and structural adaptations of flowering plants—the world’s dominant plant group. Through lectures, demonstrations, and laboratory studies, learn to recognize and draw the many plant parts and growth stages of the most common plant families. Drawing experience is helpful but not required.
8 Tuesdays, 10/18–12/6, 10 am–12:30 pm
Dick Rauh | NYBG | 172BIL300A
$485/$525 Certificate Requirement

**NEW! BOTANICAL OIL PAINTING—AN INTRODUCTION**
Award-winning botanical artist Carrie Di Costanzo shows you how to capture the fine details and textures of conifers, including their characteristic needles, bark, and cones. Come away with a thorough grounding in the best way to illustrate this beautiful group’s attributes along with plenty of artistic tips. Prerequisite: Botanical Watercolor
2 Fridays, 9/9 & 9/16, 10 am–3:30 pm
Carrie Di Costanzo | NYBG | 171BIL330
$239/$265 Certificate Elective

**LETTERING WITH COPPERPLATE**
Copperplate is an elegant script that was developed during the age of the great writing masters in the 18th and 19th centuries. This luscious, curvaceous script is used extensively for both artistic and stationery needs. This class will introduce the basic miniscule and majuscule letter forms drawn with pencil, and progress to teach how to write words and sentences with a traditional pointed pen and diluted ink.
4 Fridays, 1/13, 1/20, 1/27, & 2/3 10 am–3:30 pm
Elinor Holland | NYBG | 173BIL427
$359/$395 Certificate Elective

**NEW! CONFIDENTIALITIES IN WATERCOLOR**
Award-winning artist Carrie Di Costanzo shows you how to capture the fine details and textures of conifers, including their characteristic needles, bark, and cones. Come away with a thorough grounding in the best way to illustrate this beautiful group’s attributes along with plenty of artistic tips. Prerequisite: Botanical Watercolor
2 Fridays, 9/9 & 9/16, 10 am–3:30 pm
Carrie Di Costanzo | NYBG | 171BIL330
$239/$265 Certificate Elective

**NEW! COMPOSITES IN COLORED PENCIL AND WATERCOLOR**
Layering watercolor, colored pencil and watercolor pencil is a dynamic technique that creates rich color, detail, and form. This class blends botanical education and art while students learn to draw daisies, sunflowers, chrysanthemums and other members of the composite family. Prerequisite: Botanical Drawing I
3 Fridays, 10/21–11/4, 10 am–3:30 pm
Ingrid Finnan | NYBG | 172BIL321
$359/$395 Certificate Elective

**NEW! CONIFERS IN WATERCOLOR**
Award-winning artist Carrie Di Costanzo shows you how to capture the fine details and textures of conifers, including their characteristic needles, bark, and cones. Come away with a thorough grounding in the best way to illustrate this beautiful group’s attributes along with plenty of artistic tips. Prerequisite: Botanical Watercolor
2 Fridays, 9/9 & 9/16, 10 am–3:30 pm
Carrie Di Costanzo | NYBG | 171BIL330
$239/$265 Certificate Elective

**NEW! COMPOSITES IN COLORED PENCIL AND WATERCOLOR**
Layering watercolor, colored pencil and watercolor pencil is a dynamic technique that creates rich color, detail, and form. This class blends botanical education and art while students learn to draw daisies, sunflowers, chrysanthemums and other members of the composite family. Prerequisite: Botanical Drawing I
3 Fridays, 10/21–11/4, 10 am–3:30 pm
Ingrid Finnan | NYBG | 172BIL321
$359/$395 Certificate Elective

**NEW! MARKET FLOWERS IN WATERCOLOR**
Enjoy this one-day winter workshop learning basic watercolor techniques to capture the beautiful colors and details of flowers from our local market. No previous drawing or painting experience required. Instructor will provide flowers. All levels of skills are welcome.
Sunday, 2/26, 10 am–3:30 pm
Laura Vogel | NYBG | 173BIL225
$99/$109

**NEW! COMPOSITES IN COLORED PENCIL AND WATERCOLOR**
Layering watercolor, colored pencil and watercolor pencil is a dynamic technique that creates rich color, detail, and form. This class blends botanical education and art while students learn to draw daisies, sunflowers, chrysanthemums and other members of the composite family. Prerequisite: Botanical Drawing I
3 Fridays, 10/21–11/4, 10 am–3:30 pm
Ingrid Finnan | NYBG | 172BIL321
$359/$395 Certificate Elective

**LETTERING WITH COPPERPLATE**
Copperplate is an elegant script that was developed during the age of the great writing masters in the 18th and 19th centuries. This luscious, curvaceous script is used extensively for both artistic and stationery needs. This class will introduce the basic miniscule and majuscule letter forms drawn with pencil, and progress to teach how to write words and sentences with a traditional pointed pen and diluted ink.
4 Fridays, 1/13, 1/20, 1/27, & 2/3 10 am–3:30 pm
Elinor Holland | NYBG | 173BIL427
$359/$395 Certificate Elective

**NEW! CONFIDENTIALITIES IN WATERCOLOR**
Award-winning artist Carrie Di Costanzo shows you how to capture the fine details and textures of conifers, including their characteristic needles, bark, and cones. Come away with a thorough grounding in the best way to illustrate this beautiful group’s attributes along with plenty of artistic tips. Prerequisite: Botanical Watercolor
2 Fridays, 9/9 & 9/16, 10 am–3:30 pm
Carrie Di Costanzo | NYBG | 171BIL330
$239/$265 Certificate Elective

**NEW! COMPOSITES IN COLORED PENCIL AND WATERCOLOR**
Layering watercolor, colored pencil and watercolor pencil is a dynamic technique that creates rich color, detail, and form. This class blends botanical education and art while students learn to draw daisies, sunflowers, chrysanthemums and other members of the composite family. Prerequisite: Botanical Drawing I
3 Fridays, 10/21–11/4, 10 am–3:30 pm
Ingrid Finnan | NYBG | 172BIL321
$359/$395 Certificate Elective

**NEW! MARKET FLOWERS IN WATERCOLOR**
Enjoy this one-day winter workshop learning basic watercolor techniques to capture the beautiful colors and details of flowers from our local market. No previous drawing or painting experience required. Instructor will provide flowers. All levels of skills are welcome.
Sunday, 2/26, 10 am–3:30 pm
Laura Vogel | NYBG | 173BIL225
$99/$109

**NEW! COMPOSITES IN COLORED PENCIL AND WATERCOLOR**
Layering watercolor, colored pencil and watercolor pencil is a dynamic technique that creates rich color, detail, and form. This class blends botanical education and art while students learn to draw daisies, sunflowers, chrysanthemums and other members of the composite family. Prerequisite: Botanical Drawing I
3 Fridays, 10/21–11/4, 10 am–3:30 pm
Ingrid Finnan | NYBG | 172BIL321
$359/$395 Certificate Elective

**NEW! MARKET FLOWERS IN WATERCOLOR**
Enjoy this one-day winter workshop learning basic watercolor techniques to capture the beautiful colors and details of flowers from our local market. No previous drawing or painting experience required. Instructor will provide flowers. All levels of skills are welcome.
Sunday, 2/26, 10 am–3:30 pm
Laura Vogel | NYBG | 173BIL225
$99/$109

**NEW! COMPOSITES IN COLORED PENCIL AND WATERCOLOR**
Layering watercolor, colored pencil and watercolor pencil is a dynamic technique that creates rich color, detail, and form. This class blends botanical education and art while students learn to draw daisies, sunflowers, chrysanthemums and other members of the composite family. Prerequisite: Botanical Drawing I
3 Fridays, 10/21–11/4, 10 am–3:30 pm
Ingrid Finnan | NYBG | 172BIL321
$359/$395 Certificate Elective

Illustration: Longleaf Pine (Pinus palustris), ©Carrie Di Costanzo, NYBG Instructor

**CALL FOR ENTRIES:**

**The Third NYBG Triennial**

**Out of the Woods: Celebrating Trees in Public Gardens**
Co-presented with the American Society of Botanical Artists
November 18, 2017–April 22, 2018

The theme of this Triennial is trees in public gardens, inviting artists to capture images of one of Earth’s most important and beautiful subjects. Must be found in a botanical garden or arboretum, and each entry must include the location(s) of the entered tree(s). We encourage artists to seek out unique trees in any season, and depict whatever aspect they find most engaging and inspiring.

**Submission Deadline:**
April 28, 2017

For more information visit asba-art.org
BOTANICAL DRAWING I: MATERIALS AND METHODS

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.

6 Tuesdays, 9/13–10/25 (no class 10/11), 6–9 pm
Laura Vogel | Manhattan | 171BIL301A
6 Thursdays, 9/15–10/20, 10 am–1 pm
Mary Christiansen | NYBG | 171BIL301B
6 Wednesdays, 1/11–2/15, 10 am–1 pm
Linda M. Nemergut | NYBG | 173BIL301C
6 Wednesdays, 1/11–2/15, 6–9 pm
Laura Vogel | Manhattan | 173BIL301D
$429/$475 Certificate Requirement

BOTANICAL DRAWING II: DEVELOPING YOUR SKILLS

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

6 Tuesdays, 11/1–12/13 (no class 11/8), 6–9 pm
Laura Vogel | Manhattan | 172BIL302A
6 Thursdays, 11/3–12/15 (no class 11/24), 10 am–1 pm
Mary Christiansen | NYBG | 172BIL302B
6 Wednesdays, 3/8–4/12, 10 am–1 pm
Linda M. Nemergut | NYBG | 173BIL302C
6 Wednesdays, 3/8–4/12, 6–9 pm
Laura Vogel | Manhattan | 173BIL302D
$429/$475 Certificate Requirement

BOTANICAL DRAWING III: FOCUS ON FLOWERS

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

6 Wednesdays, 9/7–10/19 (no class 10/12), 6–9 pm
Rose Marie James | Manhattan | 171BIL303B
6 Thursdays, 1/12–2/16, 10 am–1 pm
Rose Marie James | NYBG | 173BIL303C
$429/$475 Certificate Requirement

BOTANICAL WATERCOLOR

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

8 Mondays, 9/19–11/11 (no class 10/3 & 10/10), 6–9 pm
Rose Marie James | Manhattan | 171BIL331A
8 Mondays, 1/23–3/20 (no class 2/20), 10 am–1 pm
Rose Marie James | NYBG | 173BIL331B
$549/$599 Certificate Requirement

PEN AND INK I: TECHNIQUES

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

6 Tuesdays, 1/10–2/14, 10 am–1 pm
Laura Vogel | Manhattan | 173BIL400
$429/$475 Certificate Requirement

COLORED PENCIL I: TECHNIQUES

The focus of this course is on color theory and application. Colored pencil line and tone can be applied to look like either drawing or painting, making it a versatile medium for creating botanical artwork. Learn a variety of techniques, including burnishing, tonal construction, and how to layer colors to achieve different hues and color densities. Students are advised to take Colored Pencil II immediately following Colored Pencil I. Prerequisite: Botanical Drawing II

5 Saturdays, 11/5–12/10 (no class 11/26), 10 am–1 pm
Laura Vogel | Manhattan | 173BIL415A
5 Tuesdays, 1/31–2/28, 6–9 pm
Jeanne Reiner | Manhattan | 173BIL415B
$359/$395 Certificate Requirement

COLORED PENCIL II: APPLICATIONS

Illustrating with colored pencil combines the appeal of drawing with the immediacy of color application. It allows overlays of transparent hues, which create complex color dimensions that can express the subtle mingling of colors in nature. Learn to observe color hues, temperatures, and values of fresh flowers and other subjects in color studies and compositions. Students are advised to take Colored Pencil II immediately following Colored Pencil I. Prerequisite: Colored Pencil I

5 Saturdays, 1/5–12/10 (no class 11/26), 10 am–1 pm
Laura Vogel | NYBG | 172BIL416
$359/$395 Certificate Elective

THE BASICS OF VISUAL COMPOSITION

Strong composition is essential to creating memorable works of art and illustration. Through exercises addressing focal point, balance, leading the eye, the Rule of Thirds, and more, students will learn a range of principles that will inform and improve their compositions. Each week, students add to their personal composition notebooks, which will be an invaluable reference in the future. A final drawing will pull together everything explored in class. This class is best taken early in your Certificate studies. Prerequisite: Botanical Drawing II

4 Saturdays, 10/1 & 10/15, 10/29 & 11/19, 10 am–3 pm
Lauretta Jones | NYBG | 172BIL421
$429/$475 Certificate Requirement

NEW! THE SECRETS OF GREEN LEAVES

Leaves are beautiful subjects in and of themselves, and in combination with flowers, describe a plant’s characteristic form. We will carefully study the various shapes and textures of leaves in order to translate their green hues from chlorophyll to paint. Apply your Watercolor I color theory to real painting situations. Prerequisite: Botanical Watercolor

3 Wednesdays, 11/2–11/16, 10 am–3:30 pm
Betsy Rogers-Knox | NYBG | 172BIL312
$359/$395 Certificate Elective
NEW! FLOWER GROUPING
Bring a heightened reality to your painting. Learn to gracefully arrange botanical subjects in your compositions and use color, value, and focus to create convincing three-dimensional images. Add depth to a single stem with many flowers, or a group of different flowers combined in one image.
P Prerequisite: Botanical Watercolor
4 Thursdays, 11/3–12/17 (no class 11/24), 11 am–4 pm
Adele Rossetti | Manhattan | 173BIL337
$449/$495 Certificate Elective

NEW! ORIENTAL LILIES IN COLOR
These bold, exotic flowers make striking paintings. Learn the basic botany of the lily family while developing skills in painting the lovely, graded pinks of the "Stargazer" lily. Learn to make fluid color changes, as well as capture the textures of the flowers and the linear structure of the foliage.
P Prerequisite: Botanical Watercolor or Color Pencil I
3 Wednesdays, 11/30–12/14, 6–9 pm
Rose Marie James | NYBG | 173BIL354
$379/$419 Certificate Elective

NEW! DRAWING DUCKS
Each fall, resident and migratory ducks populate New York City's ponds, streams, and reservoirs. This class covers waterfowl anatomy, gestures and behavioral habits, and presents techniques for painting their vivid plumage and iridescent colors. Composition and light on form will be emphasized along with approaches to rendering reflections on water. While we will work from photographs, we'll share tips for sketching in the field as well.
P Prerequisite: Botanical Drawing II
4 Tuesdays, 1/10–1/31, 10 am–1 pm
Mary Christiansen | NYBG | 173BIL382
$285/$315 Certificate Elective

NEW! EASTERN WOODLAND HABITAT
The oak/hickory woodland of North American once stretched unbroken from New England to the Ozarks and the Atlantic Ocean to the Mississippi River. It was the most diverse temperate forest ecosystem in the world. We will study the habitat, past, present, and future focusing on the many small animals and plants that inhabit it. This class will stress research, composition, and narrative. We will discuss the history of scientific illustration and professional assignments, with an emphasis on clarity. Includes a special session at the American Museum of Natural History and a walk in The New York Botanical Garden’s own oak/hickory habitat. P Prerequisite: Botanical Drawing I
4 Fridays, 2/10–3/3, 10 am–1 pm
Patricia Wynne | NYBG | 173BIL341
$285/$315 Certificate Elective

NEW! PINEAPPLES
The pineapple is a classic subject with a rich cultural history and unusual botanical structure. Learn to build up the luscious warm tones of this iconic fruit with layers of transparent watercolor. You'll simplify the pineapple’s seemingly complex structure by learning about the Fibonacci sequence and other patterns.
P Prerequisite: Botanical Watercolor
4 Fridays, 2/24–3/17, 10 am–2:30 pm
Rose Marie James | NYBG | 173BIL354
$379/$419 Certificate Elective

NEW! FABULOUS FERNS
From the fiddlehead to the frond, ferns have a charm all their own. In the studio and the Conservatory, you’ll examine some of their special adaptations and growth patterns, then use your graphite pencil or pen and ink to create graceful images of different genera in this beautiful and varied group. Final project will be in pen and ink.
P Prerequisite: Plant Morphology for Botanical Illustrators
3 Thursday, 3/2–3/16, 10 am–3:30 pm
Dick Rauh | NYBG | 173BIL344
$359/$395 Certificate Elective

NEW! DRAWING FROM PRESESSED PLANTS
Working with pressed plant specimens from Garden scientist Daniel Atha’s botany class, students will learn two standard ways to create accurate, informative, and aesthetically pleasing scientific illustrations which include tracing and drawing from observation to make the plant look 3-dimensional. Microscope studies will be used to capture details. Work will be done in pencil and finished in pen and ink.
P Prerequisite: Pen and Ink I
3 Tuesdays, 3/7, 3/28, & 4/4, 10 am–2 pm
Robin Jess | NYBG | 173BIL310
$285/$315 Certificate Elective

NEW! INTERNET TOOLS FOR CREATIVES, PART I: SOCIAL MEDIA
Learn how to use Facebook, Instagram, Twitter, and Pinterest to showcase your work. Define your goals for using social media as a marketing tool, and create a strategy to achieve those goals. Discover tips for attracting and engaging followers. Basic smartphone fluency is recommended. If possible, please bring a smartphone with the aforementioned apps pre-downloaded. Please indicate if you have an Android or iPhone when registering.
Saturday, 2/11, 10 am–3 pm
Bill Herman | NYBG | 173BIL394
$115/$129 Certificate Requirement

NEW! INTERNET TOOLS FOR CREATIVES, PART II: WEBSITE
Having a professional online presence is essential to getting the word out about your work. In this hands-on class, you will build a simple website (no coding required!) to showcase your portfolio using Wix.com, a free and easy-to-use platform. We will also showcase free online photo-editing tools. Basic familiarity with internet navigation is expected. Please indicate if you have a PC or Mac when registering. Bring a laptop and 10–15 digital images of you, your studio and your work to use in building your new site.
Saturday, 2/25, 10 am–3 pm
Bill Herman | NYBG | 173BIL395
$115/$129 Certificate Requirement

“NYBG’s Certificate in Botanical Art & Illustration gave me a fresh start in life. The Program really focuses your skills and gives you the right tools to become an accomplished botanical artist. I start teaching for my local adult education art program this fall!”
— SARAH WRY, 2016 Graduate and NYBG Instructor
Do you have a desire to get closer to nature? Take a botany class and gain a deeper understanding of how plants connect us to the natural world. Botanical studies explore all aspects of plant growth and development, plant communities, and the role of plants in ecosystems. At the everyday level, botany can be your gateway to herbal healing, foraging for wild edibles, cross-cultural understanding, or just a deeper appreciation of nature’s seasonal beauty.

**THE CERTIFICATE PROGRAM**

The NYBG Botany Certificate Program is designed to deepen a student’s scientific understanding of the plant kingdom. Engage in subjects such as native flora, ethnobotany, ecology, and botanical nomenclature. Courses reflect the Garden’s strengths in botanical science research, as well as its world-famous and unequalled resources—the William and Lynda Steere Herbarium, housing 7.8 million dried plant specimens, and the LuEsther T. Mertz Library, with its collection of more than two million cataloged items and 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**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CODE</th>
<th>HOURS</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant Structure</td>
<td>BOT 315</td>
<td>24</td>
<td>15</td>
</tr>
<tr>
<td>Plant Physiology</td>
<td>BOT 316</td>
<td>24</td>
<td>15</td>
</tr>
<tr>
<td>Plant Diversity</td>
<td>BOT 317</td>
<td>24</td>
<td>15</td>
</tr>
<tr>
<td>Dendrology: Woody Plant Identification</td>
<td>BOT 375</td>
<td>15</td>
<td>—</td>
</tr>
<tr>
<td>Herbaceous Plant Identification*</td>
<td>BOT 376</td>
<td>15</td>
<td>—</td>
</tr>
<tr>
<td>One of the four Native Flora courses:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Native Flora in Autumn</td>
<td>BOT 331</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Native Flora in Winter</td>
<td>BOT 332</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Native Flora in Spring*</td>
<td>BOT 333</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Native Flora in Summer*</td>
<td>BOT 334</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Elective courses</td>
<td></td>
<td>61</td>
<td></td>
</tr>
<tr>
<td>TOTAL REQUIRED HOURS</td>
<td></td>
<td>175</td>
<td></td>
</tr>
</tbody>
</table>

**ELECTIVES**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CODE</th>
<th>HOURS</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant Preservation and Collection Workshop</td>
<td>BOT 338</td>
<td>12</td>
<td>14</td>
</tr>
<tr>
<td>Systematic Botany</td>
<td>BOT 432</td>
<td>21</td>
<td>15</td>
</tr>
<tr>
<td>Mushroom Mania</td>
<td>BOT 361</td>
<td>12</td>
<td>15</td>
</tr>
<tr>
<td>New York City’s Mushrooms</td>
<td>BOT 362</td>
<td>6</td>
<td>15</td>
</tr>
<tr>
<td>Nature’s Pharmacy</td>
<td>BOT 346</td>
<td>4</td>
<td>15</td>
</tr>
<tr>
<td>Medical Botany</td>
<td>BOT 305</td>
<td>12</td>
<td>15</td>
</tr>
<tr>
<td>Caffeinated Plants</td>
<td>BOT 325</td>
<td>3</td>
<td>15</td>
</tr>
<tr>
<td>Botanical Latin I</td>
<td>GAR 360</td>
<td>10</td>
<td>14</td>
</tr>
<tr>
<td>Botanical Latin II</td>
<td>GAR 366</td>
<td>6</td>
<td>14</td>
</tr>
<tr>
<td>Ferntastic!</td>
<td>BOT 312</td>
<td>4</td>
<td>14</td>
</tr>
<tr>
<td>The Hidden World of Lichens</td>
<td>BOT 313</td>
<td>3</td>
<td>14</td>
</tr>
<tr>
<td>Paleobotany: The Origin of Plants</td>
<td>BOT 434</td>
<td>12</td>
<td>15</td>
</tr>
<tr>
<td>Morphology of Flowering Plants*</td>
<td>BOT 431</td>
<td>16</td>
<td>—</td>
</tr>
</tbody>
</table>

*Courses offered in the Spring–Summer Catalog

**QUESTIONS?**

CONTACT JAMIE BOYER, PH.D., AT 718.817.8747 OR JBOYER@NYBG.ORG

“*I'd highly recommend NYBG's hands-on, student-centered Botany program. The instructors really cared about the students and wanted us to learn, whether we were in the lab or out in the field.*”

—Michael Kalistinsky, 2016 Graduate
THE CLASSES

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

4 Thursdays, 9/15–10/6, 6–9 pm
Daniel Atha and Sheranza Alli | NYBG | 171BOT338
$285/$315 Certificate Elective

BIRDS OF NEW YORK: BASIC ORNITHOLOGY
Learn how to identify commonly seen birds and understand their roles in both natural and built environments. Discover their amazing physical capabilities, forms, adaptations, and habitats...and find out who eats what—or whom! Classroom study paired with bird walks on the ground will help you recognize species by sight and sound, and understand their relationship to plants and gardens. Join naturalist, and author Dr. Leslie Day, whose Field Guide to the Neighborhood Birds of New York City has been called “fascinating” and “indispensable.”

4 Wednesdays, 9/21–10/19 (no class 10/12), 10 am–1 pm
Leslie Day | NYBG | 171BOT306A
$219/$239

NEW! MILKWEEDS FOR MONARCHS
The disturbing decline of the monarch butterfly has inspired recent efforts to restore milkweed in local parks and private gardens. This session provides an overview of the monarch life cycle and the northeast nectar plants they prefer. Learn which plant species make the best larval hosts for monarchs and how to propagate milkweed from seed. You’ll tour the Native Plant Garden to view a selection of nectar plants, and go home with two native species of milkweed to plant in your garden before the first frost. Please bring lunch and dress for the weather.

Tuesday, 9/27, 10 am–2:30 pm
Nancy Slowik | NYBG | 172BOT155
$99

NEW! THE FORAGER’S FEAST
Walk the woodlands of the Garden and encounter the many wild edibles that grow in our woods and yards. Discover where and when species can be found, how to identify them in the wild, how to harvest them sustainably, and how to prepare them in tasty recipes. Leda Meredith, author of The Forager’s Feast: How to Identify, Gather, and Prepare Wild Edibles, is your guide to transforming even the most common edible backyard weeds into guest-worthy fare.

Friday, 10/7, 10 am–12 pm
Leda Meredith | NYBG | 172BOT156
$35/$39

THE PLANT WHISPERERS

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

FERNTASTIC!
In habitats from the tropics to the poles, the world’s 14,000 ferns, horsetails, quillworts, and clubmosses are dynamic, and remarkable. Robbin Moran, NYBG Mary Flagler Cary Curator of Botany and President of the New York Chapter Fern Society, is your guide to this unique family of plants. Take a microscopic look at spores being catapulted from their cases, and learn to identify species of common ferns on Garden grounds. Dress for the weather. Recommended reading: Moran’s A Natural History of Ferns.

Friday, 9/30, 9 am–1 pm | Robbin Moran, Ph.D. | NYBG | 171BOT312
$89/$99 Certificate Elective

THE HIDDEN WORLD OF LICHENS
Rock pimples, fog fingers, old man’s beard—their common names are amusing, but lichens are among Earth’s most amazing and oldest living things, and display incredibly beautiful colors and shapes. They grow on bark, rock, and barren soil, and thrive in rain forests, deserts, the arctic—even environments simulating Mars! Lichens are sensitive environmental indicators, yet scientists are only just beginning to understand them. Join noted NYBG lichenologist James Lendemer for a captivating session that includes a microscope lab and a lichen hunt on the Garden grounds. Dress for the weather.

Thursday, 2/23, 10 am–1 pm | James Lendemer, Ph.D. | NYBG | 173BOT313
$75/$79 Certificate Elective

BOTANICAL LATIN I
Botanical Latin is essential for anyone with a serious interest in identifying plants. But, contrary to popular belief, mastering Latin plant names need not be intimidating or boring. Review the rules of taxonomy, Latin grammar, and pronunciation, and learn the history of the binomial system in use today.

5 Tuesdays, 9/13–10/18 (no class 9/20), 10:30 am–12:30 pm
Jennifer Bakshi | NYBG | 171GAR360A
$145/$159 Certificate Elective

3 Wednesdays, 1/25–2/21, 11 am–1 pm
Jennifer Bakshi | 173GAR366B
$145/$159 Certificate Elective

3 Tuesdays, 3/7–3/21, 11 am–1 pm
Jennifer Bakshi | 173GAR366B
$145/$159 Certificate Elective

3 Wednesdays, 1/25–2/8, 11 am–1 pm
Jennifer Bakshi | Manhattan | 173GAR366A
$145/$159 Certificate Elective

5 Wednesdays, 9/28–11/2 (no class 10/12), 6:15–8:15 pm
Jennifer Bakshi | Manhattan | 171GAR360B
$145/$159 Certificate Elective

5 Tuesdays, 1/10–2/7, 11 am–1 pm
Jennifer Bakshi | NYBG | 173GAR360C
$235/$259 Certificate Elective

5 Mondays, 3/13–4/10, 6:15–8:15 pm
Jennifer Bakshi | Manhattan | 173GAR360D
$235/$259 Certificate Elective

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

3 Wednesdays, 1/25–2/8, 11 am–1 pm
Jennifer Bakshi | Manhattan | 173GAR366A
$145/$159 Certificate Elective

3 Tuesdays, 3/7–3/21, 11 am–1 pm
Jennifer Bakshi | NYBG | 173GAR366B
$145/$159 Certificate Elective

3 Wednesdays, 1/25–2/8, 11 am–1 pm
Jennifer Bakshi | Manhattan | 173GAR366A
$145/$159 Certificate Elective

Illustration: Dryads Saddle (Polyporus squamosus), ©Margaret Saylor, NYBG Instructor

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

Saturday, 11/5, 10 am–2:30 pm
Andrea Candee | NYBG | 172BOT346A

Saturday, 3/4, 10 am–2:30 pm
Andrea Candee | NYBG | 173BOT346B

$95/$105 Certificate Elective

MEDICAL BOTANY
This introduction to herbalism covers herbal traditions and highlights specific, health-optimizing foods and plants. Study topics include the medicinal properties of plants used for the digestive, respiratory, and circulatory systems, as well as best practices for cultivating, harvesting, and storing herbs to protect their potency. Learn to prepare basic herbal teas, poultices, and soaks. Course focus is on general plant actions (carminatives, cholagogues, expectorants)—detailed phytochemistry is not discussed.

6 Tuesdays, 10/18–11/29 (no class 11/22), 6–8 pm
Ursula Basch | Manhattan | 172BOT470A

6 Saturdays, 2/4–3/18 (no class 2/18), 2–4 pm
Ursula Basch | NYBG | 173BOT470B

$299/$329 Certificate Elective

CAFFEINATED PLANTS
This powerful and naturally occurring psychoactive substance is found in many plants that have been used for millennia to enhance medicine, diet, and religious practice. Lecture, demonstrations, and an interactive “edible lab” will introduce you to all of the caffeine containing plants within the context of botanical nomenclature, modern medicine, traditional cultural practices, and the ethnochemistry of these fascinating and economically important species.

Thursday, 11/10, 6–9 pm
Adam Negrin | Manhattan | 172BOT305

$79/$85 Certificate Elective

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

7 Tuesdays, 10/25–12/6, Exam 12/13, 5–8 pm
Matthew Pace, Ph.D. | NYBG | 171BOT432S

$489/$529 Certificate Elective

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

7 Tuesdays, 1/31–3/14, Exam 3/21, 5–8:30 pm
Regina Alvarez, Ph.D. | NYBG | 173BOT316S

7 Wednesdays, 2/1–3/15, Exam 3/22, 5–8:30 pm
Regina Alvarez, Ph.D. | NYBG | 173BOT316B

$559/$609 Certificate Requirement

PLANT DIVERSITY
Survey diversity through the study of morphological, anatomical, and life cycle features of the major divisions of organisms traditionally grouped in botany. An introduction to the principles and mechanics of evolution and classification provides the framework for understanding how these divisions are defined. Fundamental nutrient cycles and ecological concepts are presented. Prerequisite: Plant Structure

8 Mondays, 10/17–12/5, Exam 12/12, 6:15–9:15 pm
Janey Boyer, Ph.D. | NYBG | 172BOT317

$559/$609 Certificate Requirement

DENDROLOGY: WOODY PLANT IDENTIFICATION
From towering tulip trees to creeping partridge berries, native plants make up the forests of the northeast. Learn to identify trees, shrubs, and woody vines by their vegetative characteristics, using their scientific and common names. The focus is on both native and naturalized species, as well as some most commonly planted in New York City. Class meets outdoors, rain or shine. Bring a hand lens 10x or greater.

5 Saturdays, 9/17–10/29 (no class 10/8 & 10/15), Exam 11/5, 10 am–1 pm
James Kaechel | NYBG | 171BOT375

$359/$395 Certificate Requirement

NATIVE FLORA IN AUTUMN
Learn to identify native trees, shrubs, wildflowers, and weeds, including the common but easy-to-confuse goldenrods and asters. Lectures are conducted both in the classroom and on Garden grounds. Dress for the weather.

4 Fridays, 10/7–10/28, 10 am–1 pm
Nancy Slovik | NYBG | 172BOT331

$285/$315 Certificate Requirement

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

4 Thursdays, 1/19–2/9, 10 am–1 pm
Nancy Slovik | NYBG | 173BOT332

$285/$315 Certificate Requirement
CRAFTS & DIY

The holidays offer fresh inspiration to get crafty with plants!
We make it easy—all materials are included!
**NEW!  BOTANICAL JEWELRY: THE POWER OF SEEDS**

History and indigenous cultures teach us that plants worn and carried on the body can have an effect on our spiritual side. Focusing on seeds, we’ll explore our mystical connection to plants as symbols and ornaments. Learn how to harvest and prepare seeds for stringing, and design your own unique necklace, pendant, bracelet, or earrings.

- **Wednesday, 10/19, 10–1pm**
  - Margarita Poulson  |  NYBG |  172CRF125A
- **Tuesday, 3/14, 6:30–8:30 pm**
  - Maria Colletti  |  NYBG |  173CRF167A
  - $79/$85

---

**LIVING DÉCOR: SUCCULENTS, STONES, AND MOSS TERRARIUM**

Use a selection of plump succulents, thick moss, and stones, housed in a large, geometric glass vessel, to make a delightful oasis garden, under the guidance of an instructor who literally wrote the book on terrariums.

- **Monday, 10/24, 6:30–8:30 pm**
  - Maria Colletti  |  NYBG |  172CRF162
  - $79/$85

---

**BEESWAX CANDLE-MAKING WORKSHOP**

Decorate your Thanksgiving table with natural beeswax candles you made yourself! These candles have a lovely honey aroma, and unlike paraffin, burn without smoking or dripping. See how to melt and mold raw beeswax, then roll your own beeswax into candles to take home—ideal as a DIY gift or for your own holiday table.

- **Saturday, 11/5, 10 am–1 pm**
  - Kazumi Terada  |  NYBG |  172CRF152A
- **Saturday, 11/19, 10 am–1 pm**
  - Kazumi Terada  |  Manhattan |  172CRF152B
  - $69/$75

---

**GIRLS’ NIGHT OUT: AUTUMN CENTERPIECE**

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

- **Tuesday, 10/18, 6–8 pm**
  - Yoli LaGuerre  |  Manhattan |  172CRF114A
- **Thursday, 11/17, 6–8 pm**
  - Yoli LaGuerre  |  Manhattan |  172CRF114B
  - $79/$85

---

**NEW!  PAPER SNOWFLAKE TECHNIQUES**

Awaken your inner child and create intricate storybook snowflakes with paper artist Jenny Lee Fowler. She’ll share tips and techniques, as well as design considerations for folded and repeated patterns. In this hands-on workshop, you’ll cut snowflakes suitable for framing, for holiday decoration, or greetings.

- **Friday, 11/11, 1–3 pm**
  - Jenny Lee Fowler  |  NYBG |  172CRF127
  - $79/$85

---

**NEW!  BOTANICAL PAPER CUTTING: TREE OF LIFE**

Many folk traditions from around the world draw on botanical references to create gorgeous and symbolic paper cuttings. We’ll look at examples and create our own original tree of life paper silhouettes under the guidance of paper artist Jenny Lee Fowler. Finished 8˝x10˝ frame-ready art is yours to keep or give as a special gift.

- **Saturday, 11/12, 10 am–12 pm**
  - Jenny Lee Fowler  |  NYBG |  172CRF129
  - $79/$85

---

**CREATE A BOTANICAL BUILDING**

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

- **Saturday, 11/19, 9:30 am–4 pm**
  - Madeline Yanni  |  NYBG |  172CRF142A
  - $169/$189

---

**TABLETOP HOLIDAY TOPIARY**

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

- **Saturday, 12/3, 1:30–4 pm**
  - Diana Conklin  |  NYBG |  172CRF158
  - $89/$99

---

**LIVING DÉCOR: TERRARIUMS WITH AIR PLANTS & ORCHIDS**

Create your own mini rain forest with air plants and orchids in an open-style terrarium. Maria Colletti, author of Terrariums, will guide you expertly and provide instruction on the care and maintenance of your miniature plant world.

- **Monday, 2/27, 6:30–8:30 pm**
  - Maria Colletti  |  NYBG |  173CRF167A
- **Tuesday, 3/14, 6:30–8:30 pm**
  - Maria Colletti  |  Manhattan |  173CRF167B
  - $69/$75

---

**LAVENDER WREATH**

In this popular wreath-making class, explore the best techniques for lavender harvesting, drying, care and arranging, all while learning how to create your own wild vine base. Embellish your wreath with fall botanicals such as eucalyptus, boxwood, and more. The finished wreath makes a great addition to any home.

- **Saturday 10/29, 10:30am–1 pm**
  - Diana Conklin  |  NYBG |  172CRF150
  - $89/$99

---

**NEW!  WINTER WONDERLAND WREATH**

Take inspiration from the wintry outdoors as you recreate a nature scene on a three-dimensional, lighted grapevine wreath using preserved cedar, juniper, mushroom birds, and other seasonal botanicals. Then top it off with a sprinkling of faux snow.

- **Sunday, 12/11, 9:30 am–1 pm**
  - Madeline Yanni  |  NYBG |  172CRF155
  - $65/$75

---

**NEW! GIFTS FROM YOUR KITCHEN**

Plan ahead, and you will always have a homemade edible gift to bring to a party—or whip up for your own. In this class, receive new recipes, festive packaging tips, and the opportunity to sample: Almond Truffle Temptations, Bacon Jam, Curried Lentil Soup in a Jar, Mini Cheesecakes with Sugared Pecans, Toffee Blondies in a Jar, Walnut Bites, and more!

- **Wednesday, 12/7, 6–8 pm**
  - Nancy Contessa  |  NYBG |  172CRF112A
  - $59/$65

---

**NEW!  BEESWAX CANDLE-MAKING WORKSHOP**

Decorate your Thanksgiving table with natural beeswax candles you made yourself! These candles have a lovely honey aroma, and unlike paraffin, burn without smoking or dripping. See how to melt and mold raw beeswax, then roll your own beeswax into candles to take home—ideal as a DIY gift or for your own holiday table.

- **Thursday, 11/17, 6:30–9:30 pm**
  - Margarita Poulson  |  Manhattan |  172CRF114B
  - $69/$75

---

**NEW!  PLANTS & ORCHIDS**

Orchids in an open-style terrarium. Maria Colletti, author of Terrariums, will guide you expertly and provide instruction on the care and maintenance of your miniature plant world.

- **Tuesday, 12/7, 6–8 pm**
  - Margarita Poulson  |  NYBG |  172CRF112A
  - $69/$75

---

**NEW!  MUSHROOM BIRD WREATH**

Recreate a nature scene on a three-dimensional, lighted grapevine wreath using preserved cedar, juniper, mushroom birds, and other seasonal botanicals. Then top it off with a sprinkling of faux snow.

- **Saturday, 12/3, 1:30–4 pm**
  - Diana Conklin  |  NYBG |  172CRF158
  - $89/$99

---

**NEW!  CARDINALS IN A GRAPEVINE WREATH**

Create a round topiary in a grapevine wreath using preserved cedar, juniper, grapevine, and cardinal birds. Bring a box to transport your topiary home.

- **Saturday, 12/3, 1:30–4 pm**
  - Diana Conklin  |  NYBG |  172CRF158
  - $89/$99

---

**NEW!  WINTER WONDERLAND WREATH**

Take inspiration from the wintry outdoors as you recreate a nature scene on a three-dimensional, lighted grapevine wreath using preserved cedar, juniper, mushroom birds, and other seasonal botanicals. Then top it off with a sprinkling of faux snow.

- **Sunday, 12/11, 9:30 am–1 pm**
  - Madeline Yanni  |  NYBG |  172CRF155
  - $65/$75
FLORAL DESIGN
Expressing yourself through flowers can be a personal passion… or a professional career. From designing arrangements for your own table to delivering a client event, our hands-on classes covering every aspect of this creative art will help get you started—or take you to the next level. 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. No experience is necessary—just your flair and enthusiasm.

During the course of the program, students will:

• Design and fashion their own signature arrangements with fresh and silk flowers.
• Create floral designs for many occasions, including weddings, parties, and holidays.
• Develop skills needed to build or sustain a thriving floral business: retail ordering, cost analysis, scheduling, project management, marketing, client relationships, and managing personnel.

STUDENT INFORMATION

REGISTRATION

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

• Payment for flowers and other materials must be made at the time of registration.
• Refunds will not be granted fewer than five business days before classes begin.

CLASS MATERIALS

• Students are required to bring their own florist knife and clippers to class.
• Please bring lunch to classes meeting all day.
• Please bring a box or bag in which to take arrangements home.

To purchase a tool kit, including a knife, wire cutter, scissors, and pruners, please email adulted@nybg.org or call 718.817.8747.

CERTIFICATE STUDENTS

Students must complete 158 total course hours (126 required + 32 elective), plus a 80-hour internship. Students are also required to complete and present a notebook on all classes, and create a portfolio with a minimum of eight (8) photographs of their own arrangement (not class assignments).

CERTIFICATION DEADLINE

Students who expect to complete their Certificate requirements in time for graduation on June 4, 2017, must inform the Registration Office in writing of their candidacy by February 24, 2017. Students will be contacted by April 15 to confirm that all their course requirements have been met. If you are not contacted, please call the Registration Office at 718.817.8747. The Floral Design Notebook & Portfolio must be submitted to the Registration Office no later than May 5, 2017.

The Program Coordinator is Trish O’Sullivan of the Trish O’Sullivan Design Group, one of New York City’s leading floral designers for over 25 years. Among her creations are floral designs for The Dr. Oz Show, living walls for the set of The Nate Berkus Show, and arrangements for four- and five-star hotels. She holds a Certificate in Floral Design from the Botanical Garden, where, as Coordinator, she incorporates sustainable design practices while inspiring students with the beauty of nature.

QUESTIONS? CONTACT PROGRAM COORDINATOR TRISH O’SULLIVAN AT 718.817.8747 OR FDNCOORDINATOR@NYBG.ORG

Painting ©Shari Blaukopf, Allium, Watercolor, Ruth Rea Howell Family Garden, NYBG
CERTIFICATE REQUIREMENTS

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CODE</th>
<th>HOURS</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fundamentals of Form</td>
<td>FDN 300</td>
<td>16</td>
<td>22</td>
</tr>
<tr>
<td>Fundamentals of Style</td>
<td>FDN 302</td>
<td>16</td>
<td>22</td>
</tr>
<tr>
<td>Wedding Design I: Personals</td>
<td>FDN 304</td>
<td>16</td>
<td>22</td>
</tr>
<tr>
<td>Wedding Design II: Ceremony &amp; Reception</td>
<td>FDN 305</td>
<td>16</td>
<td>22</td>
</tr>
<tr>
<td>Color Theory for Floral Design</td>
<td>FDN 306</td>
<td>8</td>
<td>23</td>
</tr>
<tr>
<td>Flower ID from A to Z</td>
<td>FDN 308</td>
<td>8</td>
<td>23</td>
</tr>
<tr>
<td>Interior Plantscapes</td>
<td>FDN 310</td>
<td>8</td>
<td>23</td>
</tr>
<tr>
<td>Shopping the New York Flower Market</td>
<td>FDN 400</td>
<td>4</td>
<td>23</td>
</tr>
<tr>
<td>Arranging with Silk Flowers</td>
<td>FDN 405</td>
<td>6</td>
<td>23</td>
</tr>
<tr>
<td>Practical Planning for Designers</td>
<td>FDN 408</td>
<td>8</td>
<td>23</td>
</tr>
<tr>
<td>Grand-Scale Arrangements</td>
<td>FDN 502</td>
<td>8</td>
<td>23</td>
</tr>
<tr>
<td>Event Planning for the Floral Designer*</td>
<td>FDN 504</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

**Electives**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CODE</th>
<th>HOURS</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrangea Happenings</td>
<td>FDN 331</td>
<td>3</td>
<td>20</td>
</tr>
<tr>
<td>Basic Armature</td>
<td>FDN 314</td>
<td>3</td>
<td>21</td>
</tr>
<tr>
<td>Ikebana: A Comprehensive Approach</td>
<td>FDN 325</td>
<td>9</td>
<td>21</td>
</tr>
<tr>
<td>Cascading Bouquet</td>
<td>FDN 371</td>
<td>3</td>
<td>21</td>
</tr>
<tr>
<td>Designing with Tropical Flowers</td>
<td>FDN 391</td>
<td>4</td>
<td>21</td>
</tr>
<tr>
<td>East Meets West: Autumnscape</td>
<td>FDN 339</td>
<td>3</td>
<td>21</td>
</tr>
<tr>
<td>Woodland Arrangements</td>
<td>FDN 606</td>
<td>6</td>
<td>21</td>
</tr>
<tr>
<td>Botanical Couture</td>
<td>FDN 606</td>
<td>6</td>
<td>21</td>
</tr>
<tr>
<td>Magnolia Leaf Wreath</td>
<td>FDN 355</td>
<td>4</td>
<td>22</td>
</tr>
<tr>
<td>Holiday Greens Workshop</td>
<td>FDN 335</td>
<td>5</td>
<td>22</td>
</tr>
<tr>
<td>Della Robbia Wreath</td>
<td>FDN 337</td>
<td>5</td>
<td>22</td>
</tr>
<tr>
<td>Designing with Succulents</td>
<td>FDN 372</td>
<td>5</td>
<td>21</td>
</tr>
<tr>
<td>White Christmas: New York Style</td>
<td>FDN 352</td>
<td>4</td>
<td>22</td>
</tr>
<tr>
<td>Compote Arrangements</td>
<td>FDN 349</td>
<td>5</td>
<td>21</td>
</tr>
<tr>
<td>Boho Chic</td>
<td>FDN 389</td>
<td>5</td>
<td>21</td>
</tr>
<tr>
<td>Floral Techniques: Submerging, Floating, and Stacking</td>
<td>FDN 399</td>
<td>5</td>
<td>21</td>
</tr>
<tr>
<td>Floral Techniques: All About the Vase</td>
<td>FDN 368</td>
<td>4</td>
<td>22</td>
</tr>
<tr>
<td>Seasonal Bridal Bouquet</td>
<td>FDN 342</td>
<td>3</td>
<td>22</td>
</tr>
<tr>
<td>Embracing the Negative Space</td>
<td>FDN 607</td>
<td>3</td>
<td>23</td>
</tr>
<tr>
<td>Upstate Dahlias</td>
<td>FDN 376</td>
<td>3</td>
<td>20</td>
</tr>
</tbody>
</table>

*Courses offered in the Spring-Summer Catalog

**THE CLASSES**

**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.

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Instructor</th>
<th>Location</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday, 9/20</td>
<td>6–8 pm</td>
<td>Robb Moss</td>
<td>Manhattan</td>
<td>171FDN210A</td>
</tr>
<tr>
<td>Thursday, 10/20</td>
<td>11 am–1 pm</td>
<td>Rose G. Edinger</td>
<td>NYBG</td>
<td>172FDN210B</td>
</tr>
<tr>
<td>Tuesday, 11/1</td>
<td>11 am–1 pm</td>
<td>Rose G. Edinger</td>
<td>Manhattan</td>
<td>172FDN210C</td>
</tr>
<tr>
<td>Wednesday, 11/9</td>
<td>11 am–1 pm</td>
<td>Rose G. Edinger</td>
<td>NYBG</td>
<td>172FDN210D</td>
</tr>
<tr>
<td>Tuesday, 2/7</td>
<td>11 am–1 pm</td>
<td>Rose G. Edinger</td>
<td>Manhattan</td>
<td>173FDN210E</td>
</tr>
</tbody>
</table>

**EASY AND ELEGANT FLORAL DESIGN IDEAS**

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

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Instructor</th>
<th>Location</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thursday, 10/27</td>
<td>11 am–1 pm</td>
<td>Rose G. Edinger</td>
<td>NYBG</td>
<td>172FDN203A</td>
</tr>
<tr>
<td>Thursday, 11/10</td>
<td>6–8 pm</td>
<td>Robb Moss</td>
<td>Manhattan</td>
<td>172FDN203B</td>
</tr>
<tr>
<td>Tuesday, 2/28</td>
<td>6–8 pm</td>
<td>Rose G. Edinger</td>
<td>Manhattan</td>
<td>173FDN203C</td>
</tr>
</tbody>
</table>

**NEW! UPSTATE DAHLIAS**

Vibrant, locally sourced dahlias make for dramatic arrangements that are perfect for a mantel, entry table, or dining centerpiece. Trending designer Ariel Dearie shows you how to fashion a free-flowing yet sculptural statement that showcases these exuberant blooms. $90 materials fee. Prerequisite: Fundamentals of Form or Fundamentals of Style

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Instructor</th>
<th>Location</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday, 9/13</td>
<td>10 am–1 pm</td>
<td>Ariel Dearie</td>
<td>NYBG</td>
<td>171FDN376</td>
</tr>
</tbody>
</table>

**HYDRANGEA HAPPENINGS**

Impressively large, durable, and easy-to-handle, hydrangeas lend themselves to drying with a natural look. Learn when and how to prune them to keep their color, and then create a gorgeous wreath to last throughout the season. $60 materials fee.

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Instructor</th>
<th>Location</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thursday, 9/22</td>
<td>10:30 am–1:30 pm</td>
<td>Rose G. Edinger</td>
<td>Manhattan</td>
<td>171FDN331A</td>
</tr>
<tr>
<td>Tuesday, 9/27</td>
<td>10:30 am–1:30 pm</td>
<td>Rose G. Edinger</td>
<td>NYBG</td>
<td>171FDN331B</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Time</th>
<th>Instructor</th>
<th>Location</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>$75/$79</td>
<td>Certificate Elective</td>
<td>Rose G. Edinger</td>
<td>Manhattan</td>
<td>171FDN331B</td>
</tr>
</tbody>
</table>

NEW! BASIC ARMATURE
Creative, imaginative, and sometimes even gravity-defying, armatures are the key to many simple yet jaw-dropping arrangements. Learn the basic techniques for fashioning stylish frameworks from natural and man-made materials as well as wire. By the end of this workshop, students will have learned how to use their own creativity to create dramatic armature designs with tried-and-true techniques. $85 materials fee.

Tuesday, 11/1, 6–9 pm
Yoli LaGuerre | NYBG | 172FDN314
$75/$79 Certificate Elective

IKEBANA: A COMPREHENSIVE APPROACH
This ancient Japanese art form seeks to create a living sculpture that transcends the beauty of nature. More than merely arranging flowers, ikebana often emphasizes other areas of the plant, such as its stems and leaves, focusing on shape, line, harmony, and balance. Instructor Junko Miura, acclaimed floral artist and a second-generation ikebana master, guides you through the basic principles as well as the moribana and nageire forms. $160 materials fee.

3 Thursdays, 10/13–10/27, 11 am–2 pm
Junko Miura | Manhattan | 172FDN325
$215/$235 Certificate Elective

NEW! EAST MEETS WEST: AUTUMNSCAPE
Using techniques like curling, bridging, and ribboning, you can learn to weave branches, greens and flowers into a celebration of textures and movement. You’ll compose a lush autumnscape that incorporates elements of contemporary design and traditional Japanese floral principles, and take home a unique arrangement. $60 materials fee.

Friday, 10/28, 10 am–1 pm
Jan L. Gordon | NYBG | 172FDN339
$75/$79 Certificate Elective

DESIGNING WITH SUCCULENTS
Versatile and long-lived, succulents make a creative statement in any floral design… from terrariums to mixed arrangements with traditional blooms to a growing use as wedding decor. You’ll work with a selection of succulents—echeveria, jade, crassula, sempervivum, aeoniums, and sedum—in a range of colors. Combining them with exotic foliage and flowers in a rustic terra-cotta container, you’ll create a striking centerpiece for your home. $95 materials fee.

Friday, 1/27, 10 am–2:30 pm
Trish O’Sullivan | NYBG | 173FDN372
$119/$129 Certificate Elective

NEW! COMPOTE ARRANGEMENTS
Learn the techniques and secrets to creating chic arrangements in the trendy footed container so popular on Instagram and Pinterest. This vintage-inspired centerpiece style is all the rage and in this class, you’ll learn the tricks to crafting a lush, romantic composition. $85 materials fee.

Wednesday, 2/1, 10:30 am–3 pm
Thomas Sebenius | Manhattan | 173FDN349
$119/$129 Certificate Elective

BOHO CHIC
Using vintage mercury glass vases and a selection of blooms, branches, berries, and mosses fresh from the New York Flower Market, learn to create a striking arrangement that embraces a loose and romantic bohemian feel with a hint of understated urban glamour. $90 materials fee.

Friday, 2/3, 10 am–3:30 pm
Trish O’Sullivan | NYBG | 173FDN389
$119/$129 Certificate Elective

FLORAL TECHNIQUES: SUBMERGING, FLOATING, AND STACKING
Below the waterline, blooms are magnified, revealing new aspects of beauty in these chic alternatives to above-the-vase displays. A single blossom brings new focus to its delicate petals. And multiple elements stacked underwater add a sophisticated “wow factor.” Using creamy-white French tulips, burgundy mini calla lilies, and purple-blue roses, create your own dramatic moment. The session covers vase selection, how to introduce textures with stones and foliage, and techniques for anchoring the plants into an integrated design. $90 materials fee.

Wednesday, 2/15, 10 am–3:30 pm
Trish O’Sullivan | NYBG | 173FDN399
$119/$129 Certificate Elective

NEW! BASIC ARMATURE
Creative, imaginative, and sometimes even gravity-defying, armatures are the key to many simple yet jaw-dropping arrangements. Learn the basic techniques for fashioning stylish frameworks from natural and man-made materials as well as wire. By the end of this workshop, students will have learned how to use their own creativity to create dramatic armature designs with tried-and-true techniques. $85 materials fee.

Tuesday, 11/1, 6–9 pm
Yoli LaGuerre | NYBG | 172FDN314
$75/$79 Certificate Elective

IKEBANA: A COMPREHENSIVE APPROACH
This ancient Japanese art form seeks to create a living sculpture that transcends the beauty of nature. More than merely arranging flowers, ikebana often emphasizes other areas of the plant, such as its stems and leaves, focusing on shape, line, harmony, and balance. Instructor Junko Miura, acclaimed floral artist and a second-generation ikebana master, guides you through the basic principles as well as the moribana and nageire forms. $160 materials fee.

3 Thursdays, 10/13–10/27, 11 am–2 pm
Junko Miura | Manhattan | 172FDN325
$215/$235 Certificate Elective

CASCADING BOUQUET
Love those flowing, lush, and dramatic bouquets you see in magazines, Pinterest, and Instagram? Join bouquet guru Tom Sebenius and learn the basics of the European hand-tie method while working with gorgeous blooms bursting with texture, romance, and color. $85 materials fee.

Monday, 10/17, 6–9 pm
Tom Sebenius | Manhattan | 172FDN371
$75/$79 Certificate Elective

DESIGNING WITH TROPICAL FLOWERS
With their spare, severe look and clean, dramatic lines, tropics can make a dazzling modern impact. Learn about selecting and preparing these long-lasting, heat-resistant tropicals, and go home with two eye-catching arrangements of your own. $95 materials fee.

Friday, 2/3, 10 am–3:30 pm
Trish O’Sullivan | NYBG | 173FDN389
$119/$129 Certificate Elective

BOHO CHIC
Using vintage mercury glass vases and a selection of blooms, branches, berries, and mosses fresh from the New York Flower Market, learn to create a striking arrangement that embraces a loose and romantic bohemian feel with a hint of understated urban glamour. $90 materials fee.

Friday, 2/3, 10 am–3:30 pm
Trish O’Sullivan | NYBG | 173FDN389
$119/$129 Certificate Elective

FLORAL TECHNIQUES: SUBMERGING, FLOATING, AND STACKING
Below the waterline, blooms are magnified, revealing new aspects of beauty in these chic alternatives to above-the-vase displays. A single blossom brings new focus to its delicate petals. And multiple elements stacked underwater add a sophisticated “wow factor.” Using creamy-white French tulips, burgundy mini calla lilies, and purple-blue roses, create your own dramatic moment. The session covers vase selection, how to introduce textures with stones and foliage, and techniques for anchoring the plants into an integrated design. $90 materials fee.

Wednesday, 2/15, 10 am–3:30 pm
Trish O’Sullivan | NYBG | 173FDN399
$119/$129 Certificate Elective

NEW! COMPOTE ARRANGEMENTS
Learn the techniques and secrets to creating chic arrangements in the trendy footed container so popular on Instagram and Pinterest. This vintage-inspired centerpiece style is all the rage and in this class, you’ll learn the tricks to crafting a lush, romantic composition. $85 materials fee.

Wednesday, 2/1, 10:30 am–3 pm
Thomas Sebenius | Manhattan | 173FDN349
$119/$129 Certificate Elective

VERSACE MEETS EAST: AUTUMNSCAPE
Using techniques like curling, bridging, and ribboning, you can learn to weave branches, greens and flowers into a celebration of textures and movement. You’ll compose a lush autumnscape that incorporates elements of contemporary design and traditional Japanese floral principles, and take home a unique arrangement. $60 materials fee.

Friday, 10/28, 10 am–1 pm
Jan L. Gordon | NYBG | 172FDN339
$75/$79 Certificate Elective

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

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

Wednesday, 11/30, 10 am–2:30 pm
Thomas Cawley | NYBG | 172FDN355

**HOLIDAY GREENS WORKSHOP**
The holidays come to life with fragrant, long lasting decorations for your door, table and center. Explore working with fresh pine, fir, cedar, boxwood, juniper and arborvitae. Cones and berries will add seasonal flair. Personalize your projects with accents of ribbons and millimeter balls. $80 materials fee.

Saturday, 12/3, 10:30 am–4 pm
Ken Norman, AIFD | NYBG | 172FDN335A

Sunday, 12/4, 10 am–3:30 pm
Ken Norman, AIFD | NYBG | 172FDN335B

$119/$129 Certificate Elective

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

Tuesday, 12/6, 10:30 am–3 pm
Thomas Cawley | NYBG | 172FDN337

$119/$129 Certificate Elective

**NEW! WHITE CHRISTMAS: NEW YORK STYLE**
Elegant white with a touch of sparkling silver defines New York holiday style. And it’s amazing how a seemingly limited palette can unleash so much decorating fun and creativity. Using the latest holiday containers and shapes, with seasonal selections of flowers, branches, berries, mosses and accessories from the New York City Flower Market, create two sophisticated arrangements. $90 materials fee.

Wednesday, 12/7, 10 am–2:30 pm
Trish O’Sullivan | Manhattan | 172FDN352A

Wednesday, 12/14, 10:30 am–3 pm
Trish O’Sullivan | NYBG | 172FDN352B

$95/$105 Certificate Elective

**FLORAL TECHNIQUES: ALL ABOUT THE VASE**
A designer’s bread and butter is the “weekly,” a standing order of vase arrangements created for regular clients each week. While all designers have the basic skills for working with vases, this class expands those creative abilities using a variety of containers, including tall glass cylinders, round bubble bowls, and long rectangles. $90 materials fee. Prerequisites: Fundamentals of Form or Fundamentals of Style

Wednesday, 2/22, 10:30 am–3 pm
Thomas Sebenius | NYBG | 173FDN368

$95/$105 Certificate Elective

**FUNDAMENTALS I: FORM**
Understanding form underpins successful floral design. From round and triangular to parallel line and the Hogarth curve, building on form, shape, and line is the key to a beautiful and balanced arrangement. $245 materials fee.

6 Wednesdays, 9/21–11/2 no class 10/12, 6:15–8:55 pm
Trish O’Sullivan | Manhattan | 171FDN300A

4 Wednesdays, 10/5–11/2 (no class 10/12), 10:30 am–3 pm
Thomas Sebenius | NYBG | 172FDN300B

4 Saturdays, 10/29–11/19, 10:30 am–3 pm
Yoli LaGuerra | Manhattan | 172FDN300C

4 Tuesdays, 1/24–2/21 (no class 2/14), 10 am–2:30 pm
Thomas Sebenius | NYBG | 173FDN300D

$369/$409 Certificate Requirement

**FUNDAMENTALS II: STYLE**
The ability to command a broad vocabulary of styles defines the professional floral designer. From romantic and English garden to landscape and cascade, understanding floral styles expands your design options, evokes specific moods, and helps create the perfect setting. $245 materials fee.

4 Saturdays, 9/17–10/15 (no class 10/8), 10:30 am–3 pm
Trish O’Sullivan | Manhattan | 171FDN302A

4 Fridays, 9/23–10/14, 10:30 am–3 pm
Trish O’Sullivan | NYBG | 171FDN302B

6 Mondays, 11/14–12/19, 6:15–8:55 pm
Yoli LaGuerra | Manhattan | 172FDN302C

2 Tuesdays, Wednesdays, Thursdays, 1/17–1/26, 6:15–8:55 pm
Jameel Gilbert | Manhattan | 173FDN302D

4 Mondays, 2/27–3/20, 10 am–2:30 pm
Thomas Cawley | NYBG | 173FDN302E

$369/$409 Certificate Requirement

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

4 Mondays, 11/7–11/28, 10 am–2:30 pm
Thomas Cawley | NYBG | 172FDN304A

4 Tuesdays, 11/15–12/13 (no class 11/22), 6:15–8:55 pm
Thomas Sebenius | Manhattan | 172FDN304B

4 Saturdays, 1/21–2/11, 10 am–2:30 pm
Yoli LaGuerra | Manhattan | 173FDN304C

$369/$409 Certificate Requirement

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

4 Saturdays, 3/11–4/1, 10:30 am–3 pm
Yoli LaGuerra | Manhattan | 173FDN305A

4 Wednesdays, 3/15–4/5, 10 am–2:30 pm
Thomas Cawley | NYBG | 173FDN305B

$369/$409 Certificate Requirement
**COLOR THEORY FOR FLORAL DESIGN**

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

- 2 Tuesdays, 10/6 & 10/13, 10:30 am–3 pm
  - Rose Edinger | NYBG | 172FDN308A
- 3 Thursdays, 1/24–2/16, 6:15–8:55 pm
  - Jameel Gilbert | Manhattan | 172FDN308B
- 2 Tuesdays, 2/28 & 3/7, 10:30 am–3 pm
  - Trish O’Sullivan | Off site | 172FDN308C

$139/$155 Certificate Requirement

**SHOPPING THE NEW YORK FLOWER MARKET**

See flowers firsthand in the heart of the New York flower district under the guidance of the Floral Design Certificate Coordinator. Meeting location in the flower district is identified in your confirmation letter. Lunch is not included. Dress for the weather. Prerequisite: Fundamentals of Form or Fundamentals of Style

- Thursday, 9/29, 9 am–1:30 pm
  - Trish O’Sullivan | Off site | 171FDN400A
- Friday, 11/4, 9 am–1:30 pm
  - Thomas Sebenius | Off site | 172FDN400B

$95/$105 Certificate Requirement

**ARRANGING WITH SILK FLOWERS**

Explore the basic techniques of handling silk flowers to create lush, long-lasting arrangements. Gain helpful skills like wiring and use of hot glue, and learn how to select the best materials for achieving original and unusual effects. Bring wire cutters. $120 materials fee. Prerequisites: Fundamentals of Form and Fundamentals of Style

- Friday, 12/2, 10 am–4:30 pm
  - Trish O’Sullivan | NYBG | 172FDN405A
- Thursday, 2/23, 10:30 am–5 pm
  - Trish O’Sullivan | Manhattan | 173FDN405B

$139/$155 Certificate Requirement

**INTERNET TOOLS FOR CREATIVES**

Learn to showcase your work with these practical one-day workshops in social media and web design.

- February 11 and 25
  - See p. 11 for details.

**INTERIOR PLANTSCAPES**

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

- 2 Thursdays, 10/6 & 10/13, 10:30 am–3 pm
  - Rose Edinger | NYBG | 172FDN308A
- 3 Thursdays, 2/2–2/16, 6:15–8:55 pm
  - Jameel Gilbert | Manhattan | 172FDN308B
- 2 Tuesdays, 2/28 & 3/7, 10:30 am–3 pm
  - Thomas Sebenius | NYBG | 173FDN308C

$189/$209 Certificate Requirement

**EMBRACING THE NEGATIVE SPACE**

Taylor Patterson, founder of Fox Fodder Farm, is known for her slightly wild yet structural arrangements that play on the use of negative space to add depth and dimension. In this workshop, Taylor shows you how to utilize this space between flowers and foliage in designs that are expansive and layered, while light and airy. Working with seasonal flowers, you will craft multiple arrangements that are both simple yet complex. You’ll also receive Fox Fodder Farm’s signature ceramic vase, handmade by Light and Ladder. $100 materials fee. Prerequisites: Fundamentals of Form or Fundamentals of Style

- Thursday, 11/3, 10 am–1 pm
  - Taylor Patterson | NYBG | 172FDN607

$119/$129 Certificate Elective

**GRAND-SCALE ARRANGEMENTS**

Full, lavish arrangements to enhance entrance halls, ballrooms, parties, and hotels are always in demand. Learn the mechanics behind how these dramatic arrangements are designed and constructed. $200 materials fee. Prerequisite: Wedding Design

- 2 Wednesdays, 4/12 & 4/19, 10 am–2:30 pm
  - Thomas Cawley | NYBG | 173FDN502

$189/$209 Certificate Requirement

---

**THE CUTTING EDGE**

A Floral Design Series

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

THE CERTIFICATE PROGRAM

The NYBG Gardening Certificate Program covers sustainable gardening techniques, soil science, plant propagation, and garden care and design. Regional experts guide you through the art and science of plant selection and care for home or small-scale residential/urban/community gardens and greening projects. Certificate classes begin on page 27.

Upon completion of the program, students will:

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

CERTIFICATE REQUIREMENTS

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CODE</th>
<th>HOURS</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fundamentals of Gardening</td>
<td>GAR 301</td>
<td>12</td>
<td>29</td>
</tr>
<tr>
<td>Introduction to Plant Science*</td>
<td>HRT 300</td>
<td>16</td>
<td>—</td>
</tr>
<tr>
<td>Soil Science for Gardeners</td>
<td>GAR 302</td>
<td>12</td>
<td>29</td>
</tr>
<tr>
<td>Gardening with Native Plants*</td>
<td>GAR 315</td>
<td>9</td>
<td>—</td>
</tr>
<tr>
<td>Insect Identification and Management*</td>
<td>GAR 320</td>
<td>12</td>
<td>—</td>
</tr>
<tr>
<td>Disease Identification and Management*</td>
<td>GAR 324</td>
<td>9</td>
<td>—</td>
</tr>
<tr>
<td>Fundamentals of Garden Design</td>
<td>GAR 342</td>
<td>12</td>
<td>29</td>
</tr>
<tr>
<td>Vegetable Gardening</td>
<td>GAR 431</td>
<td>12</td>
<td>29</td>
</tr>
<tr>
<td>Complete Garden Maintenance</td>
<td>GAR 440</td>
<td>18</td>
<td>29</td>
</tr>
<tr>
<td>Pruning Principles and Practices</td>
<td>HRT 321</td>
<td>15</td>
<td>—</td>
</tr>
<tr>
<td>Plants for Landscaping*</td>
<td>HRT 358</td>
<td>16</td>
<td>—</td>
</tr>
<tr>
<td>Plant Propagation I: Basic Principles*</td>
<td>HRT 411</td>
<td>18</td>
<td>—</td>
</tr>
<tr>
<td>Elective GAR or HRT courses</td>
<td></td>
<td>23</td>
<td></td>
</tr>
<tr>
<td>TOTAL REQUIRED HOURS</td>
<td></td>
<td>184</td>
<td></td>
</tr>
</tbody>
</table>

ELECTIVES

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CODE</th>
<th>HOURS</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weekend Garden Design Workshop</td>
<td>GAR 317</td>
<td>8</td>
<td>31</td>
</tr>
<tr>
<td>Container Gardening*</td>
<td>GAR 327</td>
<td>8</td>
<td>—</td>
</tr>
<tr>
<td>Basic Botany for Gardeners</td>
<td>GAR 312</td>
<td>8</td>
<td>26</td>
</tr>
<tr>
<td>Stonework in the Garden</td>
<td>GAR 351</td>
<td>4</td>
<td>27</td>
</tr>
<tr>
<td>Botanical Latin I</td>
<td>GAR 360</td>
<td>10</td>
<td>29</td>
</tr>
<tr>
<td>Botanical Latin II</td>
<td>GAR 366</td>
<td>6</td>
<td>29</td>
</tr>
<tr>
<td>Color in the Garden: Sequencing and Complementary Colors</td>
<td>GAR 367</td>
<td>4</td>
<td>27</td>
</tr>
</tbody>
</table>

*Courses offered in the Spring–Summer Catalog
P Courses with a prerequisite before you can register

For professional organizations, see p. 55.

The Program Coordinator, Daryl Beyers, has more than 20 years of professional gardening experience and is the lead landscape designer at Poundridge Nurseries in Pound Ridge, N.Y. He has been a staff writer and editor for Fine Gardening magazine and has written for Horticulture and HGTV Magazine. He teaches gardening and garden design courses at NYBG and is currently a contributing garden editor for Martha Stewart Living.

GET NYBG CERTIFIED

Whether you are an aspiring gardener or already have a green thumb, a NYBG Gardening Certificate will provide you with the core knowledge, hands-on training, and the credentials you need to succeed in any garden setting with complete confidence.

QUESTIONS? CONTACT DARYL BEYERS AT 718.817.8747 OR GARCOORDINATOR@NYBG.ORG
THE CLASSES

NEW! BASIC CANNING
Turn organic cucumbers and spices into a jar of delicious dill pickles using the tried-and-true process great-grandma used. Designed for beginners, and using the classic Ball Jar with separate lid and sealer ring, this class covers the basics—from recipes to food prep to sterilizing. We’ll discuss various tips and tricks for canning all kinds of produce and you’ll head home filled with canning confidence—and your jar of tasty pickles!
Sunday, 9/18, 10 am–1 pm
Michael Blakeney | NYBG | 171GAR205
$75/$79

NEW! EXPLORING NATIVE HERBS
Many of the familiar herbs we typically plant are exotic plants from the Mediterranean. Why not try some native plants that are useful, delicious, and ecological? Discover which native herbs you can grow successfully, how to use them, and which creatures they support in our backyard ecosystems.
Saturday, 9/24, 10 am–2:30 pm
Kim Eierman | NYBG | 171GAR214
$75/$79

NEW! WINTER-SOWN SEEDS
Many seeds for greens, flowers, and even garlic and onions prefer a cold/freezing period to aid germination. This workshop shows how planting vegetable seeds outdoors in fall and winter can give you an easy head start on spring.
Saturday, 10/22, 10:30 am–3 pm
Michael Blakeney | NYBG | 172GAR207
$105/$109

PUT YOUR GARDEN TO BED
What can you do this fall to ensure a healthy garden next spring? Get a head start on your best garden ever by taking care of it now! Learn techniques to improve soil quality, protect perennials and tender plants through the winter, eliminate choice over-wintering sites for insects and diseases, and manage all those fallen leaves.
Sunday, 10/2, 10 am–12 pm
Leda Meredith | NYBG | 172GAR185A
Thursday, 10/6, 6–8 pm
Leda Meredith | Manhattan | 172GAR185B
$39/$45

NEW! BASIC BOTANY FOR GARDENERS
Understanding how plants grow is vital to successful gardening. Ideal for gardeners at any level, this course explores the basic principles of plant physiology with a focus on vital aspects of botany that every gardener should understand. Learn helpful tricks and tips as we study core botanical principles in fast and friendly terms.
3 Mondays, 10/24–11/14 (no class 11/7), 10–12:40 pm, Daryl Beyers | NYBG | 172GAR312
$189/$209 Certificate Elective

NEW! NATIVE GRASSES: PROVIDING FALL SPLENDOR
Native grasses are some of the most low maintenance plants in the garden and add a compelling element to landscape design. They come in many heights, textures, and colors, while seed heads and foliage provide fall and winter interest. Discover the full and rich variety of grasses in the Native Plant Garden that can be used as groundcovers, specimen plants, vertical design elements, and also for erosion control. Please dress for the weather.
Saturday, 11/5, 10 am–1 pm
Bill Kolvek | NYBG | 172GAR119
$55/$59

NEW! PRUNING: HOW, WHEN, AND WHERE
This one-day course covers the basics of pruning evergreens, deciduous trees, and shrubs, as well as how to maintain the woody plants in your garden. Bring your pruners—we’ll discuss tool selection and maintenance, then spend the afternoon outdoors analyzing proper techniques. Class is held rain or shine. Please dress for the weather and bring lunch.
Saturday, 11/5, 10 am–3 pm
Ann Perkowski | NYBG | 172GAR236A
Saturday, 11/12, 10 am–3 pm
Ann Perkowski | New Canaan Nature Center, New Canaan, Conn. | 172GAR236B
Sunday, 3/5, 10 am–3 pm
John Beirne | NYBG | 173GAR236C
$95/$99

“Getting my Gardening Certificate from NYBG was one of the best decisions I’ve ever made. The unique combination of inspiring, world-class instructors, the wide range of interesting classes, terrific fellow students, and the magnificent NYBG grounds created an outstanding learning environment. It’s so rewarding to use my new skills to design and build community gardens, help homeowners transform their landscapes, and much more.”

—Amy Sherwood, 2016 Graduate
NEW! CREATIVE PRUNING
What distinguishes a good garden from a great one? Exceptional pruning. Move beyond the basics into more creative techniques like pyramids, espaliers, curved hedges, knot gardens, and cloud pruning—and be inspired to use them in your garden. In class, we’ll explore glorious private and public gardens from Sissinghurst to Great Dixter, and the chateau gardens of the French Dordogne. Then we’ll stroll select NYBG gardens to see how shrubs are clipped with creative flair and to learn how you can achieve similar results. Class is held rain or shine. Please dress for the weather and bring lunch. Pruning: How, When, and Where or basic pruning skills strongly recommended.

Saturday, 2/25, 10 am–2:30 pm
Ann Perkowski | NYBG | 173GAR239
$75/$79

STONEMARK WORKSHOPS IN THE GARDEN
Stone is an essential landscape component that is indispensable in garden design. Explore the many ways to incorporate stone in your designs, including walls, patios, walkways, and steps. Learn the significance of cairns and stone circles, how to position stones in interesting ways, and how the Japanese classify stones in their famed rock gardens. Please bring lunch.

Tuesday, 11/15, 10 am–2:30 pm
Jan Johnsen | NYBG | 172GAR351
$99/$105 Certificate Elective

GROW GOURMET MUSHROOMS INDOORS
Mushrooms have been called the food of the gods, yet they are difficult to find fresh and reasonably priced in most markets. This beginner level course teaches you how to grow gourmet mushrooms at home on recyclable paper and in used coffee grounds, using safe and simple methods. Learn the straightforward techniques of growing oyster (Pleurotus ostreatus) and shiitake (Lentinula edodes) mushrooms indoors, as well as establishing outdoor colonies. Go home with a pack of Blue or Pearl Oyster Mushroom mycelium to get your garden going.

Wednesday, 1/18, 6:15–9:15 pm
Karl Friedl | Manhattan | 173GAR233
$55/$59

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, beetles, 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.

Wednesday, 1/25, 10:30 am–1:30 pm
Kim Eierman | NYBG | 173GAR114
$55/$59

COLOR IN THE GARDEN: SEQUENCING AND COMPLEMENTARY COLORS
Learn how to effectively use color in plant combinations. Study the properties of value, hue, and intensity as they relate to choosing specific garden plants. Visual presentations and discussions are used to analyze various color schemes including analogous, sequential, complementary, and monochromatic. Please bring lunch.

Thursday, 2/9, 10 am–2:30 pm
Laura McKillop | NYBG | 173GAR367A

Thursday, 2/23, 10 am–2:30 pm
Laura McKillop | NYBG | 173GAR367B
$99/$105 Certificate Elective

TERRARIUMS WORKSHOP
Explore the fascinating history and different styles of terrariums, from Wardian cases to modern vivariums and paludaria. View samples for inspiration and then make your own. Please bring a one-gallon, clear-glass vessel with an opening large enough to get your hand through. Wide-bottomed vessels such as fish bowls tend to work best.

Thursday, 2/16, 6–9 pm
Noel Rose | Manhattan | 173GAR138
$69/$79

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

Thursday, 2/2, 10:30 am–3 pm
Sheri Forster | New Canaan Nature Center, New Canaan, Conn. | 173GAR173A

Wednesday, 2/22, 10:30 am–3 pm
Richard Rosiello | NYBG | 173GAR173B

Saturday, 3/4, 10:30 am–3 pm
Sheri Forster | Manhattan | 173GAR173C

Tuesday, 3/7, 10:30 am–3 pm
Sheri Forster | Manhattan | 173GAR173D
$75/$79

LANDSCAPING WITH PERENNIALS
Learn the basics to successfully cultivate perennials in a variety of garden settings. Discussion topics include site selection, soil preparation, tools and planting techniques, maintenance practices, plant selection, landscape use, and design basics. Please bring lunch.

Sunday, 2/26, 9 am–4 pm
Michael Ruggiero | NYBG | 173GAR231
$129/$139

Bonsai Workshops

BONSAI FOR BEGINNERS WORKSHOP
Learn the fundamentals for turning ordinary nursery stock into a living work of art. This workshop covers the five major styles of bonsai along with plant and container selection, branch and root pruning, wiring, and potting. Students have the option of working with a tree that can grow indoors or outdoors. Your choice is determined by the location where you intend to winter the tree—upon registration please indicate if you prefer to work with an Indoor Tree or Outdoor Tree. Soil, container, wire, and tree will be provided. Please bring sturdy chopsticks, good pruning shears, and lunch to class.

Sunday, 10/23, 10 am–3:30 pm
John Capobianco | NYBG | 172GAR912
$159/$175

JAPANESE MAPLE BONSAI WORKSHOP
Bonsai artists often use Japanese maples because they are vigorous growers, thrive in all four seasons, and are cold hardy. Learn about the history of bonsai, basic training techniques, and maintenance. Each student creates, under supervision, a Japanese maple bonsai of their own. Materials included. Please bring sturdy wooden chopsticks, good pruning shears, and lunch to class. Note: Because Japanese maples require a winter dormant period, they need to be outside during the winter. So come to class with a location in mind where you can safely winter the tree.

Saturday, 10/29, 10 am–2:30 pm
John Capobianco | NYBG | 172GAR929
$125/$139
VINES AND CLIMBERS
Vines and other climbing plants like clematis, wisteria, roses, hardy jasmine, and climbing hydrangea not only sport beautiful blossoms, they also provide strong vertical design—in backyards and patios, or rooftops and terraces. They can create outdoor enclosures or cover 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 on a wall, up a trellis, or over an arbor or pergola. Dress for the weather.

Saturday, 3/11, 2–5 pm
Doris Loechle | NYBG | 173GAR146A

$55/$59

NEW! DOGSCAPING: CREATING A PET FRIENDLY GARDEN
Our pets are an essential part of our everyday lives and family. But it can be a challenge for gardeners to balance a healthy, safe, and beautiful garden with the needs of their four-footed friends. This session provides many helpful ideas: recommending safe, durable surfaces and materials; reducing landscape wear and tear; avoiding toxic plants; using containers effectively; and even growing fruit, vegetable and herbal pet treats! Come learn how to make your garden enjoyable for dogs (and cats) as well as their human companions.

Sunday, 3/12, 10 am–1 pm
Vincent Simeone | NYBG | 173GAR234

$55/$59

COMPOST: THE KEY TO HEALTHY GARDENS
Soil of poor quality or even toxic soils are the unfortunate starting points for many urban gardeners. The solution is compost—it provides a clean, safe medium for growing food and supplies the micro-nutrients that plants require to overcome diseases and pests. Learn three methods of composting that will improve soil fertility and structure: hot composting, bokashi (Japanese fermented composting), and sheet mulching.

Tuesday, 3/14, 6–8 pm
Claudia Joseph | Manhattan | 173GAR251

$39/$45

BUILD A SUSTAINABLE URBAN GARDEN
Transform your urban garden into a “living landscape” for native birds, insects, and other urban fauna. Develop an ecologically sustainable garden that provides much-needed habitat for pollinator insects as well as songbirds, hummingbirds, and butterflies. Review resources for sourcing plant material, best practices for sourcing soil, and designing a garden and gardening habits for long-term success. This course will get you started—or help you improve on last season’s efforts!

Thursday, 3/16, 6–9 pm
Annie Novak | Manhattan | 173GAR240

$55/$59

Get Ready for Spring
Grow your own veggies and herbs with will help you start a vegetable garden, or...

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

Saturday, 1/21, 10 am–1 pm
Ryan McAllister | NYBG | 173GAR155

$55/$59

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

Wednesday, 3/8, 10:30 am–1:30 pm
Nick Storrs | NYBG | 173GAR134

$55/$59

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

2 Wednesdays, 2/15 & 2/22, 6:15–9:15 pm
Annie Novak | Manhattan | 173GAR204

$115/$125

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

Saturday, 3/4, 10 am–1 pm
James Carr | NYBG | 173GAR116

$55/$59

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

Saturday, 3/4, 2–4 pm
James Carr | NYBG | 173GAR280

$35/$39

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

3 Tuesdays, 3/14–3/28, 6–9 pm
Annie Novak | Manhattan | 173GAR102

$165/$185

Illustration: Yellow Beet ©Betsy Rogers Knox, NYBG Instructor

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

FUNDAMENTALS OF GARDENING
This course is also required for the Horticultural Therapy Certificate.

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

4 Thursdays, 9/22–10/20 (no class 10/13), 10 am–1 pm
Manny Grossman | Manhattan | 172GAR302B
6:15–9:15 pm
Manny Grossman | NYBG | 172GAR302A
4 Sundays, 10/2–10/30 (no class 10/9), 10 am–1 pm
Manny Grossman | Manhattan | 172GAR301B
4 Tuesdays, 1/10–1/31, 6:15–9:15 pm
Manny Grossman | Manhattan | 173GAR301C
6 Fridays, 1/27–3/3, 10 am–12 pm
Michael Ruggiero | NYBG | 173GAR301D
4 Tuesdays, 2/7–2/28, 6:15–9:15 pm
Manny Grossman | Manhattan | 173GAR301E
3 Saturdays, 3/11–3/25, 10 am–3:30 pm
Daryl Beyers | NYBG | 171GAR301A
4 Thursdays, 3/2–3/23, 6:15–9:15 pm
Daryl Beyers | NYBG | 171GAR301B
4 Fridays, 3/2–3/23, 10 am–1 pm
Michael Ruggiero | NYBG | 171GAR301C
5 Tuesdays, 9/13–10/11, 10:30 am–12:30 pm
Jennifer Bakshi | NYBG | 171GAR366A
3 Wednesdays, 1/25–2/8, 11 am–1 pm
Jennifer Bakshi | NYBG | 171GAR366B
3 Tuesdays, 3/7–3/21, 11 am–1 pm
Jennifer Bakshi | NYBG | 171GAR366C
5 Tuesdays, 9/13–10/11, 10:30 am–12:30 pm
Jennifer Bakshi | NYBG | 171GAR360A
5 Tuesdays, 1/10–2/7, 11 am–1 pm
Jennifer Bakshi | Manhattan | 173GAR360B
5 Mondays, 3/13–4/10, 6:15–8:15 pm
Jennifer Bakshi | Manhattan | 173GAR360C
$285/$315 Certificate Requirement

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

4 Sundays, 10/2–10/30 (no class 10/9), 10 am–1 pm
Manny Grossman | NYBG | 172GAR302A
4 Thursdays, 11/3–12/1 (no class 11/24), 6:15–9:15 pm
Manny Grossman | Manhattan | 172GAR302B
4 Thursdays, 1/12–2/2, 10 am–1 pm
Manny Grossman | NYBG | 173GAR302C
4 Thursdays, 2/16–3/9, 6:15–9:15 pm
Manny Grossman | Manhattan | 173GAR302D
$285/$315 Certificate Requirement

FUNDAMENTALS OF GARDEN DESIGN
This class introduces basic garden design principles using the interplay of structural features, plant characteristics, and site assessment. Learn to creatively combine trees, shrubs, perennials, annuals, and bulbs based on color, shape, texture, and size. Prerequisite: Plants for Landscaping

5 Wednesdays, 10/19–11/16, 10:30 am–1 pm
Sheri Forster | NYBG | 172GAR342A
4 Thursdays, 3/2–3/23, 6:15–9:15 pm
Daryl Beyers | Manhattan | 173GAR342B
$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. Prerequisites: Fundamentals of Gardening and Soil Science for Gardeners or Soil Science I

4 Tuesdays, 2/28–3/21, 6:15–9:15 pm
Nick Storrs | NYBG | 173GAR431
$285/$315 Certificate Requirement

COMPLETE GARDEN MAINTENANCE
Learn sustainable garden and landscape maintenance techniques, including planting methods, plant care, and maintenance regimens for trees, shrubs, lawn, and perennial gardens. Discuss site analysis and plant selection, principles of IPM (Integrated Pest Management), organic gardening practices, and a calendar of landscape and garden tasks. Prerequisite: Fundamentals of Gardening

4 Saturdays, 9/24–10/29 (no class 10/8 & 10/15), 10 am–3 pm
Mobee Weinstein | NYBG | 171GAR440
$429/$475 Certificate Requirement
Saturday Gardening Workshops in Manhattan

All About Containers

OCTOBER 29
Midtown Education Center, Manhattan

Plants in pots can turn an ordinary deck, rooftop, terrace or front porch, into a bountiful gardening space filled with foliage and flowers. Autumn brings new opportunities—and challenges—for every container gardener, whatever their experience level. Learn how to extend the season in style, get your plants through the cold months, and build upon your success next spring. Please bring lunch.

10 am–12 pm
CONTAINER GARDENING 101
Container gardening requires some specialized knowledge to achieve quality results. Learn the basics for planting and maintaining a healthy outdoor container garden: materials and styles of containers, customized potting mixes, fertilization, and watering requirements. Learn which plants thrive in containers and you’ll be ready to go!

Daryl Beyers | 172GAR200A

12:45–2:45 pm
FABULOUS FALL AND WINTER CONTAINERS
Don’t let the end of summer end your love for container gardening. Learn how to transition from summer flowers to fall favorites, including small trees and conifers. Learn how to build a display of long-lasting plant combinations to carry your containers through the season.

Michele Langone | 172GAR200B

3–5 pm
OVERWINTERING CONTAINERS INDOORS
It takes more than just moving your container plants into your living room to successfully overwinter tender perennials. Dry heat and low light can challenge your plants’ ability to thrive until they can move back outdoors next spring. Learn the best methods to ensure your plants’ successful transition from outdoors to indoors. Discover which plants benefit from a dormant period over the winter and how to bring them into and out of dormancy.

Richard Rosiello | 172GAR200C

Registration fee for each section: $35/$39
All Three Sections: Manhattan | 172GAR200D | $99/$109

Manhattan Apartment Gardener’s Saturday

NOVEMBER 12
Midtown Education Center, Midtown

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

10 am–12 pm
CREATING AN INDOOR GARDEN
Successful indoor gardening requires knowledge of both plant material and growing techniques. Learn to select the right plants for various locations, based on light levels, temperatures, and aesthetics. Discuss unusual plants, tools and supplies, and maintenance such as grooming, nutrition, and pest control that will keep your plants in good shape.

Chris Raimondi, CLP | 172GAR299A

12:45–2:45 pm
SUCCEED WITH LOW-LIGHT PLANTS
Houseplants don’t have to be dull! Find out about new and unusual plants that thrive in the light-deprived corners of your home or office. Learn how to analyze light conditions to choose the right plants for your space. Discover cultivation techniques for these shade-loving species, including fertilization, water management, and pest control. Your household flora will never be the same again!

Richard Rosiello | 172GAR299B

3–5 pm
GROWING HERBS INDOORS
You can have fresh herbs year-round by learning specific techniques for growing them indoors. Whether you want to successfully transplant your herb plants from an outdoor garden to an indoor one, or are starting your indoor herb garden from scratch, this class will teach you the essentials of managing indoor growing conditions for aromatic herbs. You will also learn the best ways to harvest herbs and how to store them for maximum flavor and fragrance.

Nick Storrs | 172GAR299C

Registration fee for each section: $35/$39
All Three Sections: Manhattan | 172GAR299D | $99/$109
**Saturday Gardening Workshops at NYBG**

**Wake Up Your Garden!**

**FEBRUARY 11**

**Watson Education Building, NYBG**

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

10 am–12 pm

**SPRING GARDENERS TASK LIST**

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

Daryl Beyers | 173GAR225A

12:45–2:45 pm

**SOIL BASICS: GET IT RIGHT!**

If you get your soil right from the start, your garden will explode in lustiness. Rich, nutritious soil makes for large, healthy plants and reduces the need for regular fertilization. Learn the difference between soil structure and texture; how these differences affect plant growth; and how you can modify your soil to improve its qualities. Give your garden a solid foundation, and you'll reap the benefits for years to come.

Nick Storrs | 173GAR225B

3–5 pm

**PRUNING: SHAPE-UP FOR SPRING**

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

Michael Ruggiero | 173GAR225C

Registration fee for each section: $35/$39

All Three Sections: Manhattan | 173GAR225D | $99/$109

**LANDSCAPE DESIGN CLASSES FOR GARDENERS**

**WEEKEND GARDEN DESIGN WORKSHOP**

Good garden design isn't easy, but for anyone with a passion for plants, a little imagination, and proper guidance, it is possible to succeed. Learn the basics of garden design, review examples that work for different architectural styles and site conditions, and develop a go-to plant list for your home landscape. In the second session, you will develop and draw a basic design plan for your garden that you can take home to refine and implement come spring.

Saturday and Sunday, 11/12 & 11/13,
10 am–2:30 pm
Daryl Beyers | NYBG | 172GAR317A

Saturday and Sunday, 2/4 & 2/5,
10 am–2:30 pm
Daryl Beyers | NYBG | 173GAR317B

$209/$229 Certificate Elective

**A GARDEN DESIGN PRIMER**

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

Saturday, 1/28, 10 am–12 pm
Daryl Beyers | NYBG | 173GAR222A

Monday, 2/27, 6–8 pm
Daryl Beyers | Manhattan | 173GAR222B

$39/$45

**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 Tuesdays, 9/13–10/4 (no class 9/20),
6:15–9:15 pm
Daryl Beyers | Manhattan | 171LAN100C

3 Mondays, 9/19–10/10, (no class 10/3)
10 am–1 pm
Nancy Gerlach-Spriggs | NYBG | 171LAN100D

3 Saturdays, 2/25–3/11, 10 am–1 pm
Jeffrey Erb | Manhattan | 173LAN100E

3 Thursdays, 3/9–3/23, 10 am–1 pm
Sheri Forster | New Canaan Nature Center, New Canaan, Conn. | 173LAN100F

$169/$185

REGISTER ONLINE AT NYBG.ORG/ADULTED OR CALL 800.322.NYBG (6924)
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><strong>PLANT PRODUCTION</strong>: TRACK 1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Introduction to Plant Science</td>
<td>HRT 300</td>
<td>16</td>
<td>34</td>
</tr>
<tr>
<td>Soil Science I: Physical Properties</td>
<td>HRT 301</td>
<td>18</td>
<td>35</td>
</tr>
<tr>
<td>Soil Science II: Chemistry and Nutrition</td>
<td>HRT 302</td>
<td>16</td>
<td>35</td>
</tr>
<tr>
<td>Horticultural Techniques: Greenhouse Practices</td>
<td>HRT 312</td>
<td>15</td>
<td>35</td>
</tr>
<tr>
<td>Insect Pests of Landscape Plants*</td>
<td>HRT 381</td>
<td>15</td>
<td>—</td>
</tr>
<tr>
<td>Plant Propagation I: Basic Principles</td>
<td>HRT 411</td>
<td>18</td>
<td>37</td>
</tr>
<tr>
<td>Plant Propagation II: Applications</td>
<td>HRT 412</td>
<td>15</td>
<td>37</td>
</tr>
<tr>
<td>Disease Identification &amp; Management</td>
<td>HRT 481</td>
<td>15</td>
<td>38</td>
</tr>
<tr>
<td>Nursery and Greenhouse Management</td>
<td>HRT 491</td>
<td>24</td>
<td>38</td>
</tr>
<tr>
<td><strong>TOTAL REQUIRED HOURS</strong></td>
<td></td>
<td>152</td>
<td></td>
</tr>
</tbody>
</table>

*Courses offered in the Spring–Summer Catalog
Courses with a prerequisite before you can register
For professional horticultural organizations, see p. 55.

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

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 helps professionals enhance their profile with a serious credential, 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**

CHARLES YURGALEVITCH, PH.D.,
AT 718.817.8747 OR
HRTCOORDINATOR@NYBG.ORG
### THE CLASSES

All classes are open to Certificate and Non-Certificate students.

#### INTRODUCTION TO PLANT SCIENCE

**ALL TRACKS**

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

7 Tuesdays, 9/13–10/25, Exam 11/1, 10 am–12:20 pm
Gary Lincoff | NYBG | HRT300C

7 Tuesdays, 9/13–10/25, Exam 11/1, 2:30–4:50 pm
Gary Lincoff | NYBG | HRT300D

7 Tuesdays, 9/20–11/8 (no class 10/11), Exam 11/15, 6:15–8:55 pm
Manny Grossman | Manhattan | HRT300A

5 Saturdays, 10/1–11/5 (no class 10/8), Exam 11/12, 10 am–1:20 pm
Manny Grossman | NYBG | HRT300B

6 Mondays, 10/17–11/21, Exam 11/28, 10am–12:40 pm
Gary Lincoff | Manhattan | HRT300C

3 Mondays and 3 Thursdays, 1/9–1/30 (no class 1/16), Exam 2/2, 6:15–8:55 pm
Gary Lincoff | Manhattan | HRT300D

7 Thursdays, 1/12–2/23, Exam 3/2, 10 am–12:20 pm
Gary Lincoff | NYBG | HRT300F

5 Saturdays, 1/28–3/4 (no class 2/18), Exam 3/11, 10 am–1:20 pm
Manny Grossman | NYBG | HRT300E

$389/$429

This course is also required for the Gardening and Horticultural Therapy Certificates.

---

### CERTIFICATE REQUIREMENTS (cont.)

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CODE</th>
<th>HOURS</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SUSTAINABLE LANDSCAPE MANAGEMENT: TRACK 2</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Introduction to Plant Science</td>
<td>HRT 300</td>
<td>16</td>
<td>34</td>
</tr>
<tr>
<td>Soil Science I: Physical Properties</td>
<td>HRT 301</td>
<td>18</td>
<td>35</td>
</tr>
<tr>
<td>Soil Science II: Chemistry and Nutrition</td>
<td>HRT 302</td>
<td>16</td>
<td>35</td>
</tr>
<tr>
<td>Horticultural Techniques: Landscape Gardening</td>
<td>HRT 311</td>
<td>18</td>
<td>35</td>
</tr>
<tr>
<td>Pruning Principles and Practices</td>
<td>HRT 321</td>
<td>15</td>
<td>35</td>
</tr>
<tr>
<td>Basic Design and Installation of Irrigation Systems</td>
<td>HRT 323</td>
<td>12</td>
<td>36</td>
</tr>
<tr>
<td>Starting a Small Landscaping Business</td>
<td>HRT 349</td>
<td>14</td>
<td>37</td>
</tr>
<tr>
<td>Insect Pests of Landscape Plants*</td>
<td>HRT 381</td>
<td>18</td>
<td>—</td>
</tr>
<tr>
<td>Tree Management</td>
<td>HRT 422</td>
<td>14</td>
<td>37</td>
</tr>
<tr>
<td>Landscape Management</td>
<td>HRT 443</td>
<td>24</td>
<td>37</td>
</tr>
<tr>
<td>Disease Identification &amp; Management</td>
<td>HRT 481</td>
<td>18</td>
<td>38</td>
</tr>
<tr>
<td>Weed Identification &amp; Management</td>
<td>HRT 482</td>
<td>12</td>
<td>38</td>
</tr>
<tr>
<td>Mathematics for Horticulturists</td>
<td>HRT 356</td>
<td>6</td>
<td>38</td>
</tr>
<tr>
<td>TOTAL REQUIRED HOURS</td>
<td></td>
<td>201</td>
<td></td>
</tr>
</tbody>
</table>

| ARBORICULTURE: TRACK 3                          |       |       |      |
| Introduction to Plant Science                   | HRT 300 | 16    | 34   |
| Soil Science I: Physical Properties             | HRT 301 | 18    | 35   |
| Soil Science II: Chemistry and Nutrition        | HRT 302 | 16    | 35   |
| Tree Climbing for Arborists*                    | HRT 304 | 15    | —    |
| Chainsaws: Use, Safety, and Maintenance         | HRT 308 | 6     | 35   |
| Pruning Principles and Practices                | HRT 321 | 15    | 35   |
| Landscape Plants: Fall Trees and Shrubs         | HRT 331 | 12    | 36   |
| Landscape Plants: Conifers                      | HRT 333 | 12    | 36   |
| Landscape Plants: Spring Trees and Shrubs*      | HRT 334 | 12    | —    |
| Insect Pests of Landscape Plants*               | HRT 381 | 18    | —    |
| Tree Management                                  | HRT 422 | 14    | 37   |
| Tree Structure and Biology for Tree Preservation in the Built Environment | HRT 426 | 12    | 38   |
| Winter Tree Identification                      | HRT 440 | 12    | 37   |
| Disease Identification & Management             | HRT 481 | 18    | 38   |
| TOTAL REQUIRED HOURS                             |       | 196   |      |

| SUSTAINABLE GARDEN DESIGN: TRACK 4              |       |       |      |
| Introduction to Plant Science                   | HRT 300 | 16    | 34   |
| Soil Science I: Physical Properties             | HRT 301 | 18    | 35   |
| Landscape Plants: Broadleaved Evergreens        | HRT 332 | 9     | 36   |
| Landscape Plants: Spring Trees and Shrubs*      | HRT 334 | 12    | —    |
| Landscape Plants: Spring Perennials*            | HRT 336 | 9     | —    |
| Landscape Plants: Summer and Fall Perennials    | HRT 337 | 9     | 36   |
| Landscape Plants: Grasses*                      | HRT 340 | 9     | —    |
| Landscape Plants: Annuals*                      | HRT 341 | 8     | —    |
| Landscape Plants: Bulbs                         | HRT 342 | 12    | 36   |
| Annual and Perennial Garden Maintenance         | HRT 344 | 8     | 36   |
| Plants for Landscaping                          | HRT 358 | 16    | 37   |
| Tropical Plants                                 | HRT 361 | 15    | 37   |
| Sustainable Garden Design                       | HRT 551 | 20    | 38   |
| Landscape Design History                        | LAN 301 | 24    | 47   |
| Graphics I                                       | LAN 311 | 24    | 47   |
| TOTAL REQUIRED HOURS                             |       | 209   |      |

*Courses offered in the Spring–Summer Catalog

Courses with a prerequisite before you can register

---

Garden sketch: ©Jeanette Gurney

BIOS OF OUR INSTRUCTORS CAN BE FOUND ONLINE AT NYBG.ORG/ADULTED
SOIL SCIENCE I: PHYSICAL PROPERTIES  
ALL TRACKS  
Soil is a dynamic, living organism and the very foundation of sustainable horticulture and agriculture. This course focuses on the texture, structure, density, and color of different soils and the dynamic relationship that exists among soil, water, and plants. Learn irrigation and drainage techniques and explore the importance of soil organic matter and microbiology in relationship to plant health and soil conservation.

6 Thursdays, 10/6–11/10, Exam 11/17, 2–5 pm  
Anya Paltseva | NYBG | 172HRT301A

6 Thursdays, 1/26–3/2, Exam 3/9, 6:15–9:15 pm  
Anya Paltseva | NYBG | 173HRT301B

6 Saturdays, 1/28–3/11 (no class 2/18), Exam 3/22, 10:30 am–1:30 pm  
George Lozefski | NYBG | 172HRT301C

7 Wednesdays, 1/21–3/15, Exam 3/22, 10 am–12:35 pm  
George Lozefski | NYBG | 173HRT301D

$455/$495

SOIL SCIENCE II: CHEMISTRY AND NUTRITION  TRACKS 1, 2, & 3  
Learn how to nurture the soil so it can sustain your plants. Gain an understanding of the cornerstones of soil chemistry: pH and its effects on nutrient availability to plants and the ionic exchange capacities of soil. Macronutrient cycles in the soil will be studied with emphasis on the complex nitrogen cycle and its importance to environmental and horticultural sustainability. Explore the use of organic and inorganic fertilizers and composted soil amendments. Students will perform an analysis of their own soil sample in class. In addition, study commercial soil tests and plant tissue tests as important tools in monitoring plant nutrition and health.

6 Wednesdays, 11/30–1/18 (no class 12/21 & 12/28), Exam 1/25, 2–4:40 pm  
Maha Deeb | NYBG | 172HRT302S

6 Thursdays, 1/5–2/9, Exam 2/16, 2–4:40 pm  
George Lozefski | NYBG | 173HRT302B

$399/$445

CHAINSAWS: USE, SAFETY, AND MAINTENANCE  TRACK 3  
Whether you are a budding arborist or weekend woodcutter, knowing how to use your chainsaw safely and maintain it properly are keys to success. This lecture-demonstration course by an ISA-certified arborist teaches you the basics of chainsaw use and care, sharpening, and bar tensioning. Please bring lunch.

Saturday, 2/4, 9 am–3:30 pm  
Travis Wolf | NYBG | 173HRT308

$145/$159

HORTICULTURAL TECHNIQUES: LANDSCAPE GARDENING  TRACK 2  
Learn the basic techniques of landscape gardening, with an emphasis on sustainable, ecologically appropriate practices. Topics include soil preparation, efficient water and fertilization practices, planting and transplanting, cultivation techniques, and maintaining healthy plants. Wear comfortable clothes and sturdy shoes, and come prepared to work outdoors. Please bring lunch to classes meeting all day. Prerequisites: Introduction to Plant Science and Soil Science I

5 Tuesdays, 3/14–4/25, (no class 4/11) Exam 5/2, 4:30–7:30 pm, & Tuesday, 3/21, 10 am–4 pm, (Rain Date: Wednesday, 3/22)  
Mobee Weinstein | NYBG | 173HRT311A

5 Tuesdays, 3/15–4/19, (no evening class on 3/22) Exam 4/26, 4:30–7:30 pm, & Tuesday, 3/21, 10 am–4 pm (Rain Date: Wednesday, 3/22)  
Mobee Weinstein | NYBG | 173HRT311S

$429/$475

HORTICULTURAL TECHNIQUES: GREENHOUSE PRACTICES  TRACK 1  
This course introduces students to the practical skills required for growing plants in greenhouses with an emphasis on integrated management techniques. Topics include structures and equipment, soils and other growing media, irrigation and fertilization practices, potting and repotting, and cultural practices. Wear work clothes and bring pruning shears to class. Prerequisites: Introduction to Plant Science and Soil Science I

5 Thursdays, 2/2–3/2, Exam 3/9, 4:30–7:30 pm  
Michael Ruggiero | NYBG | 173HRT312S

$355/$395

PRUNING PRINCIPLES AND PRACTICES  TRACKS 2 & 3  
This course combines class study and hands-on pruning, matching knowledge to practice. Topics include woody plant structure and physiology as they relate to pruning; correct pruning techniques and tools; pruning timing; and pruning as an integral part of plant health care. Pruning of trees and shrubs, conifers and broadleaves, and evergreen and deciduous plants is covered. Creation and maintenance of hedges is considered, along with authentic pollarding techniques. Come dressed for field work, and bring bypass pruners if you have them.

5 Thursdays, 10/6–11/10, Exam 11/17, 2–5 pm  
Bill Logan | NYBG | 172HRT321A

5 Wednesdays, 11/2–12/7 (no class 11/23), Exam 12/14, 2–5 pm  
Bill Logan | NYBG | 172HRT321B

5 Tuesdays, 11/8–12/6, Exam 12/13, 10 am–1 pm  
Bill Logan | NYBG | 172HRT321C

5 Tuesdays, 1/11–2/8, Exam 2/15, 10 am–1 pm  
Bill Logan | NYBG | 173HRT321D

5 Saturdays, 1/28–3/4 (no class 2/18), Exam 3/11, 10 am–1 pm  
Samuel Bishop | NYBG | 173HRT321E

$355/$395

This course is also required for the Gardening Certificate.
BASIC DESIGN AND INSTALLATION OF IRRIGATION SYSTEMS  TRACK 2
Learn the basic requirements for the design, installation, and maintenance of conventional and specialty drip and micro-drip irrigation systems. Discussions focus on layout and installation procedures, including basic hydraulics and irrigation product reviews. Drip systems are useful for rooftop and terrace gardens, planters, raised beds, and many landscape and nursery production systems. Learn to troubleshoot, practice visual maintenance, and identify service requirements. Design books supplied. Please bring lunch.
Tuesday & Wednesday, 1/10 & 1/11, 10 am–4:30 pm
Robert Schilke | NYBG | 173HRT323
$289/$319

LANDSCAPE PLANTS: FALL TREES AND SHRUBS  TRACK 3
Explore the identification and landscape use of major groups of shade trees and shrubs native to and hardy in our region. Major groups studied include Acer, Quercus, Viburnum, and other genera, which are particularly ornamental in fall. The class goes out on the grounds rain or shine. The continuation of this course is Landscape Plants: Spring Trees and Shrubs. ▼ Prerequisite: Introduction to Plant Science
6 Thursdays, 9/8–10/13, Exam 10/20, 4:30–6:30 pm
Katie Bronson | NYBG | 171HRT331S
4 Sundays, 10/16–11/6, Exam 11/13, 10 am–1 pm
Michael Ruggiero | NYBG | 172HRT331B
6 Wednesdays, 9/28–11/9, (No Class 10/12), Exam 10/20, 4:30–6:30 pm, Katie Bronson | NYBG | 171HRT331C
$289/$319
This course is also required for the Landscape Design Certificate.

LANDSCAPE PLANTS: BROADLEAVED EVERGREENS  TRACK 4
Learn native and non-native broadleaved evergreens; become familiar with their cultural requirements, identification features, and landscape uses. Learn how to incorporate this important group of plants into both naturalistic and formal landscape settings. Major plant groups studied include Ilex, Rhododendron, Buxus, and evergreen groundcovers. Classroom lectures are reinforced with walks on the Garden’s grounds. Dress for the weather. ▼ Prerequisite: Introduction to Plant Science
4 Wednesdays, 10/5–10/26 (no class 10/12), Exam 11/9, 10 am–12:15 pm
Manny Grossman | NYBG | 172HRT332A
4 Wednesdays, 10/5–11/2 (no class 10/12), Exam 11/9, 4:30–6:30 pm
Deanna Curtis | NYBG | 172HRT332S
4 Saturdays, 11/12–12/17 (no class 11/19 & 11/26), 10 am–12:15 pm, Exam 12/17, 12:30–1:30 pm
Vincent Simeone | NYBG | 172HRT332B
$219/$239

LANDSCAPE PLANTS: CONIFERS  TRACK 3
Learn the identification, classification, and landscape use of native and non-native conifers that may be grown in the northeastern United States. Major plant groups studied include Chamaecyparis, Picea, and Pinus. Gain a working knowledge of the best species and cultivars of conifers for naturalistic and formal landscape designs. Come prepared to go outdoors rain or shine. ▼ Prerequisite: Introduction to Plant Science
6 Tuesdays, 11/15–1/3 (no class 12/20 & 12/27), Exam 1/10, 1:30–3:30 pm
Michael Ruggiero | NYBG | 172HRT333S
6 Wednesdays, 2/1–3/8, Exam 3/15, 2–4 pm
Michael Ruggiero | NYBG | 173HRT333B
$289/$319

LANDSCAPE PLANTS: SUMMER AND FALL PERENNIALS  TRACK 4
This course is designed for horticulturists who are familiar with the culture of bulbs and who wish to learn more about their biology, identification, and classification. Learn about familiar and unusual spring-, summer-, and autumn-flowering bulbs. ▼ Prerequisite: Introduction to Plant Science
3 Saturdays, 3/18–4/1, Exam 4/8, 10 am–12:40 pm
Deirdre Carsto | NYBG | 173HRT344
$195/$215

LANDSCAPE PLANTS: FALL TREES AND SHRUBS  TRACK 3
Explore the identification and landscape use of major groups of shade trees and shrubs native to and hardy in our region. Major groups studied include Acer, Quercus, Viburnum, and other genera, which are particularly ornamental in fall. The class goes out on the grounds rain or shine. The continuation of this course is Landscape Plants: Spring Trees and Shrubs. ▼ Prerequisite: Introduction to Plant Science
6 Thursdays, 9/8–10/13, Exam 10/20, 4:30–6:30 pm
Katie Bronson | NYBG | 171HRT331S
4 Sundays, 10/16–11/6, Exam 11/13, 10 am–1 pm
Michael Ruggiero | NYBG | 172HRT331B
6 Wednesdays, 9/28–11/9, (No Class 10/12), Exam 10/20, 4:30–6:30 pm, Katie Bronson | NYBG | 171HRT331C
$289/$319
This course is also required for the Landscape Design Certificate.

LANDSCAPE PLANTS: BROADLEAVED EVERGREENS  TRACK 4
Learn native and non-native broadleaved evergreens; become familiar with their cultural requirements, identification features, and landscape uses. Learn how to incorporate this important group of plants into both naturalistic and formal landscape settings. Major plant groups studied include Ilex, Rhododendron, Buxus, and evergreen groundcovers. Classroom lectures are reinforced with walks on the Garden’s grounds. Dress for the weather. ▼ Prerequisite: Introduction to Plant Science
4 Wednesdays, 10/5–10/26 (no class 10/12), Exam 11/9, 10 am–12:15 pm
Manny Grossman | NYBG | 172HRT332A
4 Wednesdays, 10/5–11/2 (no class 10/12), Exam 11/9, 4:30–6:30 pm
Deanna Curtis | NYBG | 172HRT332S
4 Saturdays, 11/12–12/17 (no class 11/19 & 11/26), 10 am–12:15 pm, Exam 12/17, 12:30–1:30 pm
Vincent Simeone | NYBG | 172HRT332B
$219/$239

LANDSCAPE PLANTS: CONIFERS  TRACK 3
Learn the identification, classification, and landscape use of native and non-native conifers that may be grown in the northeastern United States. Major plant groups studied include Chamaecyparis, Picea, and Pinus. Gain a working knowledge of the best species and cultivars of conifers for naturalistic and formal landscape designs. Come prepared to go outdoors rain or shine. ▼ Prerequisite: Introduction to Plant Science
6 Tuesdays, 11/15–1/3 (no class 12/20 & 12/27), Exam 1/10, 1:30–3:30 pm
Michael Ruggiero | NYBG | 172HRT333S
6 Wednesdays, 2/1–3/8, Exam 3/15, 2–4 pm
Michael Ruggiero | NYBG | 173HRT333B
$289/$319

LANDSCAPE PLANTS: SUMMER AND FALL PERENNIALS  TRACK 4
This course is designed for horticulturists who are familiar with the culture of bulbs and who wish to learn more about their biology, identification, and classification. Learn about familiar and unusual spring-, summer-, and autumn-flowering bulbs. ▼ Prerequisite: Introduction to Plant Science
3 Saturdays, 3/18–4/1, Exam 4/8, 10 am–12:40 pm
Deirdre Carsto | NYBG | 173HRT344
$195/$215

ANNUAL AND PERENNIAL GARDEN MAINTENANCE  TRACK 4
Learn how to manage annual and perennial gardens using a variety of in-season and post-season maintenance practices. Topics include soil and weed management, watering, basic pest identification and control, and seasonal clean-up. Develop a management plan for a small perennial garden. ▼ Prerequisites: Soil Science I and Plants for Landscaping or Landscape Plants: Perennials
3 Saturdays, 3/18–4/1, Exam 4/8, 10 am–12:40 pm
Deirdre Carsto | NYBG | 173HRT344
$195/$215

INSTRUCTOR BIOS CAN BE FOUND ONLINE AT NYBG.ORG/ADULTED
STARTING A SMALL LANDSCAPING BUSINESS TRACK 2

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

4 Fridays, 1/13–2/3, Exam 2/10, 10 am–1:20 pm
Myra Marsocci | NYBG | 173HRT349
$329/$369

PLANTS FOR LANDSCAPING TRACK 4

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

6 Tuesdays, 9/19–10/31 (no class 10/10), Exam 11/7, 5:45–8:45 pm, Mobee Weinstein | NYBG | 171HRT411S
$459/$499

This course is also required for the Gardening and Horticultural Therapy Certificates.

PLANT PROPAGATION I: BASIC PRINCIPLES TRACK 1

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

6 Mondays, 9/19–10/31 (no class 10/10), Exam 11/7, 5:45–8:45 pm, Mobee Weinstein | NYBG | 171HRT411S

6 Tuesdays, 9/20–11/1 (no class 10/11), Exam 11/15, 6–9 pm, Mobee Weinstein | NYBG | 171HRT411C

6 Tuesdays, 1/24–2/28, Exam 3/7, 2–5 pm
Michael Ruggiero | NYBG | 173HRT411A

6 Mondays, 1/30–3/13 (no class 2/20), Exam 3/20, 10:30 am–1:30 pm
Michael Ruggiero | NYBG | 173HRT411B

$459/$499

This course is also required for the Gardening and Horticultural Therapy Certificates.

PLANT PROPAGATION II: APPLICATIONS TRACK 1

Through lectures, laboratories, and field trips, learn how to work with plants that are difficult to propagate by seed or cuttings. Subjects include advanced seed propagation and techniques of grafting, budding, and micropropagation. Learn about tissue culture at the Garden’s Pfizer Laboratory, and tour a retail nursery for a hands-on grafting project that you can take home. Prerequisite: Plant Propagation I

6 Mondays, 9/19–10/31 (no class 10/10), Exam 11/7, 5:45–8:45 pm, Mobee Weinstein | NYBG | 171HRT411S

6 Tuesdays, 9/20–11/1 (no class 10/11), Exam 11/15, 6–9 pm, Mobee Weinstein | NYBG | 171HRT411C

6 Tuesdays, 1/24–2/28, Exam 3/7, 2–5 pm
Michael Ruggiero | NYBG | 173HRT411A

6 Mondays, 1/30–3/13 (no class 2/20), Exam 3/20, 10:30 am–1:30 pm
Michael Ruggiero | NYBG | 173HRT411B

$459/$499

WINTER TREE IDENTIFICATION TRACK 3

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

3 Mondays, 1/23–2/6, Exam 2/13, 5–8 pm, Plus an all-day field trip TBA, 8 am–4 pm
Mobee Weinstein | NYBG | 173HRT412S

3 Tuesdays, 1/24–2/7, Exam 2/14, 5–8 pm, Plus an all-day field trip TBA, 8 am–4 pm
Mobee Weinstein | NYBG | 173HRT412A

$370/$390

LANDSCAPE MANAGEMENT TRACKS 2 & 3

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

9 Wednesdays, 10/5–12/14 (no class 10/12), 2–4 pm
3 Tuesdays, 10/11, 10/25, 11/22, 2–4 pm, Exam Wednesday, 12/14, 4–5 pm
Kurt Morrell | NYBG | 172HRT443S

$555/$599

TREE MANAGEMENT TRACKS 2 & 3

Explore a holistic approach to keeping trees healthy and vigorous. Topics include planting and transplanting, pruning, fertilization, root system management, common problems, tree defenses, and lightning protection. Samples of tree problems, supplies, and tools are exhibited. Prerequisite: Soil Science II

6 Wednesdays, 1/4–2/8, & Monday, 1/9, Exam 2/15, 6–8 pm
Wayne Cahilly | NYBG | 173HRT422S

$329/$369

Horticulture Therapy Certificates.

TROPICAL PLANTS TRACK 4

Learn the identification, classification, and culture of houseplants, greenhouse, and conservatory plants. Major plant groups to be studied include aroids, bromeliads, Marantaceae, and other ornamental tropical plants grown indoors. Prerequisite: Introduction to Plant Science

6 Mondays, 11/14–1/9 (no class 12/19, 12/26, 1/2), Exam 1/17, 4:30–7 pm
Eric Lieberman | NYBG | 172HRT361S

$355/$395

Materials included.

Register online at nybg.org/adulted or call 800.322.NYBG (6924)
DISEASE IDENTIFICATION & MANAGEMENT TRACKS 1, 2, & 3
Learn about common diseases of woody and herbaceous ornamentals and turfgrass caused by bacteria, fungi, nematodes, viruses, and abiotic factors and the cultural, biological, and least toxic strategies for their control. Discuss diagnoses of plant problems, including identification of disease- and nutrient-related symptoms. Prerequisite: Introduction to Plant Science
6 Tuesdays, 9/6–10/11, Exam 10/18, 10 am–1 pm
Paul Trader | NYBG | 171HRT481S
6 Wednesdays, 9/14–10/26 (no class 10/12), Exam 11/2, 5:15–8:15 pm
Don Gabel | NYBG | 171HRT481A
$435/$479

WEED IDENTIFICATION & MANAGEMENT TRACK 2
Learn how to identify and manage the common turf and landscape weeds found in residential and commercial sites. A variety of weed control methods, including non-chemical approaches, are examined. Weed biology, biochemical pathways, herbicides and their application techniques, and equipment calibration and care are studied, as are seasonal weed control programs. Field walks on the Garden grounds are included. Dress for the weather. Prerequisite: Introduction to Plant Science
4 Wednesdays, 10/5–11/9 (no class 10/12 & 10/26), Exam 11/16, 4:30–7:05 pm
Don Gabel | NYBG | 172HRT481S
$355/$395

NURSERY & GREENHOUSE MANAGEMENT TRACK 1
The multibillion-dollar greenhouse and nursery industries have an increased need for skilled personnel trained in sound business practices and advanced horticultural techniques. Learn the basic principles and best practices of industry-associated economics, greenhouse and nursery construction and design, and commercial greenhouse and field plant production. Understand how to manage a commercial growing operation, including site selection, planning and layout, and production methods of greenhouse and nursery crops, both in the field and in containers. The course includes a field trip to area nurseries. Prerequisite: Introduction to Plant Science
7 Tuesdays, 10/4–11/22 (no class 10/11), Exam 11/29, 4:30–7:05 pm, Plus an all-day field trip Friday, 11/4, 8 am–4 pm
Marc Hachadourian | NYBG | 172HRT491S
$549/$589

SUSTAINABLE GARDEN DESIGN TRACK 4
Learn the fundamental principles of design in this studio-oriented course, including site analysis, schematic and finished planting plans, and various garden styles. Study the effective use of color when selecting specific garden plants and learn various color schemes such as analogous or sequential, complementary, and monochrome. Visual presentations, discussions, and design projects combine practical information with the more theoretical aspects of garden design. Review flowering trees, shrubs, perennials, annuals, and bulbs. A list of required materials will be provided. Prerequisites: Graphics I, Landscape Plants: Annuals, Landscape Plants: Spring Perennials
7 Wednesdays, 2/22–4/5, 6:15–9:05 pm
Laura McKillop | NYBG | 173HRT551
$485/$525

TREE STRUCTURE AND BIOLOGY FOR TREE PRESERVATION IN THE BUILT ENVIRONMENT TRACK 3
Over millions of years trees have adapted to everything nature can throw at them—wind, snow, ice, fire, floods—to rank among the planet’s largest and oldest living organisms. But how do our urban trees survive the particular rigors of city and suburb? Soil compaction, construction damage, and land development practices can lead to tree decline and early mortality. We’ll examine the biology of trees, and learn how they respond to changes in the built environment and adjust biomechanically to stress. We will also explore techniques for assessing and preserving tree health and vigor, as well as new diagnostic tools and methods for tree and site analysis in developed urban sites. Please bring lunch. Prerequisite: Introduction to Plant Science
2 Sundays, 10/30–11/6, Exam 11/13, 9 am–4 pm
Christopher Roddick | NYBG | 173HRT426
$289/$319

MATHEMATICS FOR HORTICULTURISTS TRACK 2
This course is designed for horticulturists who are responsible for maintaining or directing the maintenance of outdoor landscapes. Methods of calculating areas, application rates for fertilizers, and amounts of soil amendments are reviewed during the first session, and a set of homework problems is analyzed during the second session.
3 Tuesdays, 2/21–3/7, 4:30–6:30 pm
Mobee Weinstein | NYBG | 173HRT356S
$145/$159

Illustration: Leucodendrum plumosum, ©Sarah Wry, 2016 Graduate and NYBG Instructor
CERTIFICATION EXAMS

PREPARATION FOR PESTICIDE APPLICATOR CERTIFICATION EXAMINATION
Prepare now for the Core (Basic) and Category 3 (Ornamentals and Turf) Pesticide Applicator Certification examinations given by the New York State Department of Environmental Conservation and required of all pesticide applicators. Topics include handling, use, storage, and application of pesticides; safety and environmental considerations; and insect and disease problems. Several manuals are required. New York State mandates either three years of work experience or at least 30 hours of class instruction to be eligible to take the certification exams.

4 Tuesdays, 1/3–1/24, and 4 Thursdays, 1/5–1/26, 4:15–8:45 pm
Shawn Spencer | NYBG | 173HRT357S
$715/$785

ISA ARBORIST CERTIFICATION EXAM PREPARATION COURSE
This intensive, one-day review program prepares individuals for the International Society of Arboriculture (ISA) Certified Arborist exam and helps those already certified to obtain additional Continuing Education Units (CEUs). The all-day class includes a review of each chapter in the ISA Arborists’ Certification Study Guide. Participants are strongly advised to read the study guide in advance; copies are available for purchase at Shop in the Garden. Please bring lunch. Approved for CEUs.

Saturday, 10/22, 9 am–5:45 pm
Deanna Curtis & Wayne Cahilly | NYBG | 172HRT150
NYBG or ISA Members $189/Non-Member $209

ISA ARBORIST CERTIFICATION EXAM
To register for the ISA exam, one must file an application with exam fees to the ISA at least 12 working days in advance of the exam date. Prepayment is required. Forms are available online at isa-arbor.com, or by calling 217.355.9411. No exceptions, no walk-ins. Approved for CEUs.

Saturday, 11/19, 8 am–12 pm | NYBG | 172HRT152

ASHS-CERTIFIED HORTICULTURIST EXAM
The American Society for Horticultural Science (ASHS) is offering a Certified Horticulturist Certification, the national credential validating the knowledge and skills of practitioners in the horticulture industry. The ASHS-CH exam tests and assesses performance in 35 tasks in seven major categories of horticultural practice. This designation provides assurance that ASHS-Certified Horticulturists possess the requisite ability to communicate with, educate, and provide advice to a wide audience on topics related to their professional horticultural responsibilities. Approved for CEUs.

The application deadline for the exam is January 25, 2017. For more information about ASHS and the ASHS-Certified Horticulturist Program, and to download an application, please visit ashs.org or call 703.836.4606.

Saturday, 2/11, 9 am–1 pm | NYBG | 173HRT148

“NYBG’s Horticulture Program is taught by a remarkable set of instructors, many of whom bring decades of experience with them, and whose passion for horticulture is infectious in the most wonderful way.”
—David Saidoff, 2016 Graduate

Enhance your Certificate with these topical courses:

NEW!
PLANTING A POLLINATOR GARDEN
This one-day session helps you develop a strategic and responsible plan for a pollinator-friendly habitat. Session topics include design and placement of landscape elements, choice of plants with high nutritional value for pollinators, sustainable garden techniques, and methods for attracting and hosting specific pollinators. Concrete examples will be demonstrated and resources identified so you can immediately implement techniques at home or for your clients.

Monday, 10/24, 6–8 pm
Rebecca McMackin | Manhattan | 172HRT364
$49/$55

NEW!
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 with a new toolbox for designing plantings inspired by plant communities.

Friday, 11/4, 9 am–1:30 pm
Uli Lorimer | NYBG | 172HRT353
$109/$119

ENTOMOLOGY FOR HORTICULTURISTS
Gain a basic understanding of the structure, growth, ecology, and evolution of insects and their role in human life. Learn how to collect, identify, classify, and preserve a wide variety of insects.

5 Mondays, 2/6–3/13 (no class 2/20), Exam 3/20, 12–3 pm
Tam Nguyen | NYBG | 173HRT480S
$355/$395
HORTICULTURAL THERAPY
If you have a passion for plants and helping people, then pursue horticultural therapy and learn how to bring people and the natural environment together for healing purposes. Acquire the therapeutic skills and horticultural techniques needed to serve a broad population of people in need. Enroll in a single class or pursue a Horticultural Therapy Certificate.

THE CERTIFICATE PROGRAM

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

Upon completion of the program, students will:

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

CERTIFICATE REQUIREMENTS

Certificate students must complete 189 course hours (181 required + 8 site visit hours), plus a 100-hour internship. After completing a minimum of six courses, students should contact the Program Coordinator to arrange for their internship. To be considered for graduation on June 4, 2017, all internship documentation must be submitted to the Registration Office by May 12, 2017.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CODE</th>
<th>HOURS</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Horticultural Therapy</td>
<td>THR 301</td>
<td>15</td>
<td>42</td>
</tr>
<tr>
<td>Horticultural Therapy for the Aging Population</td>
<td>THR 401</td>
<td>15</td>
<td>43</td>
</tr>
<tr>
<td>Horticultural Therapy for Exceptional Youth</td>
<td>THR 402</td>
<td>15</td>
<td>42</td>
</tr>
<tr>
<td>Horticultural Therapy for Physical Rehabilitation</td>
<td>THR 403</td>
<td>15</td>
<td>43</td>
</tr>
<tr>
<td>Horticultural Therapy in Behavioral Health Settings</td>
<td>THR 404</td>
<td>15</td>
<td>43</td>
</tr>
<tr>
<td>Horticultural Therapy Methods and Materials*</td>
<td>THR 406</td>
<td>15</td>
<td>—</td>
</tr>
<tr>
<td>Activities Analysis for Horticultural Therapy</td>
<td>THR 407</td>
<td>15</td>
<td>43</td>
</tr>
<tr>
<td>Garden Design for Special Populations</td>
<td>THR 408</td>
<td>15</td>
<td>43</td>
</tr>
<tr>
<td>Horticultural Therapy Program Management*</td>
<td>THR 409</td>
<td>15</td>
<td>—</td>
</tr>
<tr>
<td>Fundamentals of Gardening I</td>
<td>GAR 301</td>
<td>12</td>
<td>29</td>
</tr>
<tr>
<td>Introduction to Plant Science</td>
<td>HRT 300</td>
<td>16</td>
<td>34</td>
</tr>
<tr>
<td>Plant Propagation I: Basic Principles</td>
<td>HRT 411</td>
<td>18</td>
<td>37</td>
</tr>
<tr>
<td>Horticultural Therapy Site Visits (see below)</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>TOTAL REQUIRED HOURS</td>
<td>—</td>
<td></td>
<td>189</td>
</tr>
</tbody>
</table>

SITE VISITS

<table>
<thead>
<tr>
<th>SITE VISITS</th>
<th>CODE</th>
<th>HOURS</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>NYU Langone Medical Center, Therapeutic Horticulture Services</td>
<td>THR 525</td>
<td>4</td>
<td>43</td>
</tr>
<tr>
<td>Green Chimneys</td>
<td>THR 535</td>
<td>4</td>
<td>43</td>
</tr>
<tr>
<td>Cardinal Cooke Health Center</td>
<td>THR 528</td>
<td>4</td>
<td>43</td>
</tr>
</tbody>
</table>

*Courses offered in the Spring–Summer Catalog

| Courses with a prerequisite before you can register | —     | —     | —    |

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

GET NYBG CERTIFIED

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

QUESTIONS?

CONTACT PHYLLIS D’AMICO, HTM, AT 718.817.8747 OR THRCOORDINATOR@NYBG.ORG
INTRODUCTION TO HORTICULTURAL THERAPY

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

3 Saturdays, 9/24–10/15 (no class 10/8), 10 am–3:30 pm
Anne Meore, HTR | NYBG | 171THR301A

3 Wednesdays, 1/4–1/18, 10 am–3:30 pm
Matthew Wichrowski, HTR | NYBG | 173THR301B

2 Saturdays, 1/28 & 2/11, 10 am–3:30 pm | Manhattan
and 1 Saturday, 2/4, 10 am–3:30 pm | NYBG
Matthew Wichrowski, HTR | 173THR301C

3 Saturdays, 3/4–3/18, 10 am–3:30 pm
Anne Meore, HTR | NYBG | 173THR301D

$365/$399
$45 College Credit Recommendation Fee (Optional)

HORTICULTURAL THERAPY FOR EXCEPTIONAL YOUTH

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

4 Thursdays, 10/6–10/27, 5:30–9:15 pm
Phyllis D’Amico, HTM | NYBG | 172THR402

$369/$409
$45 College Credit Recommendation Fee (Optional)

COLLEGE CREDIT RECOMMENDATION

The University of the State of New York, Regents Research Fund, National College Credit Recommendation Service recognizes the nine (9) Horticultural Therapy courses to be the equivalent of college level instruction. In order to receive one college credit hour per course, a passing grade of C or better and a $45 college credit fee are required for each course. The college credit and transcript will be processed through Excelsior College. For more information, 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.

“The Horticultural Therapy instruction transferred readily to my rehabilitation counseling consultant job, and helped me create the “Greening Up!” program in the rehab agency. My patients enthusiastically participated, unaware that it was therapy! Now as an intern at a large rehabilitation hospital in Manhattan, I’m using what I learned at NYBG every day in my horticultural therapy practice.”

— Ciri J. Malamud, MA, CRC, CSW, LCADC, 2014 Graduate, Partner at T and C Associates, LLC

Garden sketch: ©Jeanette Gurney

INSTRUCTOR BIOS CAN BE FOUND ONLINE AT NYBG.ORG/ADULTED
Horticultural therapy is practiced in a multitude of behavioral health settings, including hospitals, day treatment programs, group homes, and in private practice. Learn the diagnostic criteria for major psychiatric conditions, including anxiety, mood, psychotic, cognitive, and substance abuse disorders. Review actual case studies and create treatment plans utilizing horticulture activities for specific needs. Please bring lunch. Prerequisite: Introduction to Horticultural Therapy.

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

3 Saturdays, 12/3–12/17, 10 am–3:30 pm
Matthew Wichrowski, HTR | NYBG | 172THR403
$45 College Credit Recommendation Fee (Optional)
$369/$409

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

3 Saturdays, 2/25–3/11, 10 am–3:30 pm
TBA, HTR | NYBG | 173THR407
$390/$419
$45 College Credit Recommendation Fee (Optional)

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

Wednesday, 3/15, 9:30 am–3 pm
Donna Arabian, HTR | Off site | 173THR528
$135/$149

**NYU LANGONE MEDICAL CENTER, THERAPEUTIC HORTICULTURE SERVICES, MANHATTAN**
The focus of this individualized intensive training is on physical medicine and rehabilitation—history, philosophy, and team functions. Participate in horticulture treatment sessions that deal with patient functioning, treatment goals, and precautions.

Tuesday, 11/1, 8:30 am–1 pm
Matthew Wichrowski, HTR, and staff Off site | 172THR525A
$135/$149

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

Wednesday, 3/15, 9:30 am–3 pm
Donna Arabian, HTR | Off site | 173THR528
$135/$149

**GREEN CHIMNEYS, BREWSTER, NY**
Founded in 1947, Green Chimneys is a nationally renowned leader in creating opportunities for children facing social, emotional, and behavioral issues through innovative programs utilizing horticulture, animals, and nature. Tour the organic garden and greenhouse tended by children, experience the animal-assisted therapy program, observe a horticultural class, and participate in a hands-on activity.

Wednesday, 10/19, 8:30 am–1 pm
Michelle Marquez and staff | Off site | 172THR535
$135/$149
LANDSCAPE DESIGN
The need to develop, preserve, and protect our open spaces and environmental and cultural resources has never been greater. NYBG’s engaging, career-oriented program gives you a solid, plant-focused foundation along with the skills and confidence to start your own business. And the Garden offers 250 inspiring acres of sustainable, functional landscapes for up-close, in-depth study. Take a single class for pleasure or pursue a professional Certificate in Landscape Design.

THE CERTIFICATE PROGRAM

The NYBG Landscape Design Certificate Program prepares students for creative careers as landscape designers. Outstanding instructors who are working professionals cover every step of the design process, from landscape history to site analysis and design development. This interactive program enables you to take on a spectrum of projects from simple to complex and also to offer complete landscape design services.

Upon completion of the program, students will:

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

CERTIFICATE REQUIREMENTS

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CODE</th>
<th>HOURS</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tier 1—Introductory Classes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Landscape Design History</td>
<td>LAN 301</td>
<td>24</td>
<td>47</td>
</tr>
<tr>
<td>Graphics I</td>
<td>LAN 311</td>
<td>24</td>
<td>47</td>
</tr>
<tr>
<td>Landscape Measurement</td>
<td>LAN 340</td>
<td>12</td>
<td>47</td>
</tr>
<tr>
<td>Landscape Plants: Fall Trees and Shrubs</td>
<td>HRT 331</td>
<td>12</td>
<td>36</td>
</tr>
<tr>
<td>Landscape Plants: Spring Trees and Shrubs*</td>
<td>HRT 334</td>
<td>12</td>
<td>—</td>
</tr>
<tr>
<td>Plants for Landscaping</td>
<td>HRT 358</td>
<td>16</td>
<td>37</td>
</tr>
<tr>
<td>Tier 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Landscape Design I: Site Analysis and Schematic Design</td>
<td>LAN 401</td>
<td>24</td>
<td>47</td>
</tr>
<tr>
<td>Landscape Design II: Design Development</td>
<td>LAN 402</td>
<td>24</td>
<td>47</td>
</tr>
<tr>
<td>Estimating</td>
<td>LAN 380</td>
<td>9</td>
<td>47</td>
</tr>
<tr>
<td>Graphics II</td>
<td>LAN 411</td>
<td>24</td>
<td>48</td>
</tr>
<tr>
<td>Grading</td>
<td>LAN 421</td>
<td>24</td>
<td>48</td>
</tr>
<tr>
<td>Site Materials and Details</td>
<td>LAN 422</td>
<td>24</td>
<td>48</td>
</tr>
<tr>
<td>Tier 3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drainage</td>
<td>LAN 425</td>
<td>12</td>
<td>48</td>
</tr>
<tr>
<td>Graphics III</td>
<td>LAN 417</td>
<td>24</td>
<td>48</td>
</tr>
<tr>
<td>Landscape Design III: Planting Design</td>
<td>LAN 403</td>
<td>24</td>
<td>47</td>
</tr>
<tr>
<td>Professional Practice for Landscape Designers</td>
<td>LAN 485</td>
<td>12</td>
<td>48</td>
</tr>
<tr>
<td>Landscape Design IV: Design and Construction</td>
<td>LAN 520</td>
<td>33</td>
<td>48</td>
</tr>
<tr>
<td>Portfolio and Presentation Skills</td>
<td>LAN 555</td>
<td>16</td>
<td>48</td>
</tr>
<tr>
<td>Total Required Hours</td>
<td></td>
<td>350</td>
<td></td>
</tr>
</tbody>
</table>

*Courses offered in the Spring–Summer Catalog
Courses with a prerequisite before you can register
For professional organizations, see p. 55.

The Program Coordinator, Susan Cohen, FASLA, RLA, is principal of Susan Cohen Landscape Architect in Greenwich, Connecticut. She lectures and writes on landscape topics, and coordinates NYBG’s Landscape Design Portfolios Lecture Series, now in its 18th year. A graduate of Smith College, Susan earned a Certificate in Landscape Design at NYBG and a BS in Landscape Architecture from City College of New York. She is a member of the Garden’s Board of Advisors and has designed several exhibition gardens for NYBG. Her new book, The Inspired Landscape, is published by Timber Press.

GET NYBG CERTIFIED

Landscape designers play an increasingly pivotal role as society deals with the fundamental question of how our land—public and private—is used. 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 SUSAN COHEN AT 718.817.8747 OR Lancoordinator@nybg.org

Painting ©Stewart White, Split Rock, Watercolor, Native Plant Garden, NYBG
THE CLASSES

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 Tuesdays, 9/13–10/4 (no class 9/20), 6:15–9:15 pm
Daryl Beyers | Manhattan | 171LAN100C

3 Mondays, 9/19–10/10, (no class 10/3) 10 am–1 pm
Nancy Gerlach-Spriggs | NYBG | 171LAN100D

3 Saturdays, 2/25–3/11, 10 am–1 pm
Jeffrey Erb | Manhattan | 171LAN100E

3 Thursdays, 3/9–3/23, 10 am–1 pm
Sheri Forster | New Canaan Nature Center, New Canaan, Conn. | 173LAN100F

$169/$185

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, 10/17, 6:15–8:15 pm
Hanna Packer | Manhattan | 171LAN175

$59/$65

NEW! PLANT COMMUNITIES
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 with a new toolbox for designing plantings inspired by plant communities.

Friday, 11/4, 9 am–1:30 pm
Uli Lorimer | NYBG | 172HRT353

$109/$119

ALIGNING WITH NATURE: SUSTAINABLE DESIGN IDEAS
From “bee hotels” to green roofs, unique stormwater catchment systems to native plantings, America’s public parks and gardens have made great advances in sustainable design. This one-day session looks at some of these best practices and shows ways we can adapt them for our home gardens and landscapes. Class will conclude with a discussion of native plants—which combinations work well and why, in a variety of landscape settings. A bibliography will be provided as well as nursery sources for mature plants.

Thursday, 11/17, 10 am–3:30 pm
Jan Johnsen | NYBG | 172LAN167

$119/$129

NEW! LANDSCAPE DESIGN TIPS: LEARNING FROM BEFORE AND AFTER
Using illustrative before and after photos of various projects she has executed throughout her long career, landscape designer Jan Johnsen shares 25 specific tips to enhance your garden. Techniques include “Lure of the Sheltered Corner,” “The Principle of Three Depths,” “Raising the Canopy,” and many more. Students will be given a handout listing all tips discussed in class.

Thursday, 12/8, 10 am–3:30 pm
Jan Johnsen | NYBG | 172LAN169

$119/$129

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

8 Fridays, 1/20–3/10, 10 am–1 pm
William Harris Einhorn, RLA | NYBG | 173LAN427

$555/$599 (There is an additional software fee of $125. Special cancellation policy applies.)

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

Friday, 2/17, 10 am–12 pm
Duncan Brine | NYBG | 173LAN226

$59/$65

NEW! CAPABILITY BROWN
This year marks the 300th anniversary of the birth of Capability Brown, “England’s greatest gardener” and the Western world’s most influential landscape architect. His designs at more than 170 country houses and estates—with acres of undulating grass, scatterings of trees, and serpentine lakes—swept away the well-known formal English style, transforming the look of Britain and beyond. This series of classes examines four of Brown’s signature gardens, identifying what made his designs so successful and revolutionary in 18th-century Europe and America.

2 Fridays, 3/3 & 3/10, 10 am–1 pm
Linda Chisholm | NYBG | 173LAN352

$135/$149

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 BIOS CAN BE FOUND ONLINE AT NYBG.ORG/ADULTED
CERTIFICATE CLASSES

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

8 Wednesdays, 9/21–11/16 (no class 10/12), Exam 11/30, 6:15–9:15 pm
Mark Bunnell, RLA | Manhattan | 171LAN311A
8 Thursdays, 9/22–11/10, Exam 11/17, 10 am–1 pm
Linda Chisholm | NYBG | 171LAN301B
8 Tuesdays, 1/10–2/28, Exam 3/7, 10 am–1 pm
Linda Chisholm | NYBG | 173LAN301C
8 Tuesdays, 1/10–2/28, Exam 3/7, 6:15–9:15 pm
Mark Bunnell, RLA | Manhattan | 173LAN301D
8 Tuesdays, 1/31–3/21, Exam 3/28, 10 am–1 pm
Marta McDowell | NYBG | 173LAN301S
$555/$599 Certificate Requirement

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

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

8 Wednesdays, 9/21–11/16 (no class 10/12), 10 am–1 pm
William Harris Einhorn, RLA | NYBG | 171LAN311A
8 Thursdays, 9/22–11/10, 2–5 pm
Gustavo Capparelli | NYBG | 171LAN311B
8 Mondays, 10/17–11/12 (no class 10/24), 6:15–9:15 pm
Elizabeth Poccia | Manhattan | 172LAN311C
8 Tuesdays, 1/10–2/28, 10 am–1 pm
William Harris Einhorn, RLA | NYBG | 173LAN311D
8 Wednesdays, 1/18–3/15 (no class 2/22), 2–5 pm
Gustavo Capparelli | NYBG | 173LAN311E
$575/$619 Certificate Requirement

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

LANDSCAPE MEASUREMENT
Precise field measurement is the crucial first step in landscape design. Learn how to properly use automatic levels, tapes, and sophisticated survey instruments such as a total-station and mapping-grade GPS. Topics will include accurately measuring distances, differences in elevation, and angles. A basic understanding of geometry and trigonometry is helpful. Dress for the weather.

4 Saturdays, 9/10–10/1, 10 am–1 pm
Wayne Cahilly and Sarah Hettinger | NYBG | 171LAN340B
$285/$315 Certificate Requirement

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

3 Wednesdays, 1/11–1/25, Exam 2/1, 10 am–1 pm
Bruce G. Eckerson, PLA | NYBG | 173LAN380A
3 Wednesdays, 1/11–1/25, Exam 2/1, 2–5 pm
Bruce G. Eckerson, PLA | NYBG | 173LAN380B
$219/$239 Certificate Requirement

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

8 Thursdays, 1/12–3/2, 2–5 pm
Erin Hill | NYBG | 173LAN403B
$575/$619 Certificate Requirement

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

8 Wednesdays, 9/14–11/9 (no class 9/21), 10 am–1 pm
Nancy Gerlach-Spriggs | NYBG | 171LAN402B
8 Wednesdays, 1/11–3/1, 2–5 pm
Michael Payton | NYBG | 173LAN402C
8 Mondays, 1/23–3/20 (no class 2/20), 6:15–9:15 pm
Nathaniel Harris | Manhattan | 173LAN402D
$575/$619 Certificate Requirement

LANDSCAPE DESIGN III: PLANTING DESIGN
Through a series of design assignments, learn how to prepare planting plans for a variety of projects. Explore the significance of site conditions as well as plant form, texture, color, and ecological associations. Learn to develop plans that are practical, appropriate, and aesthetically satisfying. Prerequisites: Landscape Design II, Graphics III, and Plants for Landscaping. Recommended: Landscape Plants: Fall Trees and Shrubs and Landscape Plants: Spring Trees and Shrubs

8 Tuesdays, 9/13–11/1, 6:15–9:15 pm
Nathaniel Harris | NYBG | 171LAN403C
8 Tuesdays, 9/20–11/8, 10 am–1 pm
Leslie Needham | NYBG | 171LAN403A
8 Thursdays, 1/12–3/2, 2–5 pm
Erin Hill | NYBG | 173LAN403B
$575/$619 Certificate Requirement

Illustration: Indian Pipes (Monotropa uniflora), ©Margaret Saylor, NYBG Instructor
GRAPHICS III
Build and expand upon your graphic presentation skills to create professional presentations to clients. Trimble SketchUp, a 3D sketching software program, is the focus of this advanced graphics class. Laptop computers with SketchUp are required. Prerequisite: Graphics II
8 Thursdays, 9/15–11/10 (no class 10/20), 10 am–1 pm
William Harris Einhorn, RLA | NYBG | 171LAN417C
$575/$619 Certificate Requirement

GRADING
Grading serves both practical and aesthetic purposes in landscape design. Learn the principles of grading and how to create grading plans for your landscape projects. Through classroom discussions, exercises, and weekly assignments, students progress from mastering the use of contours and profiles to the creation of more complex grading plans including walkways, terraces, structures, and retaining walls. Prerequisites: Landscape Measurement and Graphics II
8 Fridays, 10/14–12/16 (no class 10/21 & 11/25), 10 am–1 pm
William Harris Einhorn, RLA | NYBG | 172LAN421
$565/$609 Certificate Requirement

SITE MATERIALS AND DETAILS
Learn the basic principles of constructing residential landscape features such as walks, steps, simple decks, garden structures, walls, and benches. Study landscape construction standards, techniques, and commonly used materials, and learn to draft construction details. Prerequisite: Graphics II
8 Mondays, 9/19–11/28 (no class 10/3, 10/10 & 10/24), 6:15–9:15 pm
William Harris Einhorn, RLA | NYBG | 171LAN422B
$575/$619 Certificate Requirement

DRAINAGE
Explore the importance of managing storm water runoff utilizing low-impact design techniques. Through lectures, demonstrations, in-class projects, and assignments, learn to identify potential effects of runoff and how to develop a drainage plan to meet the needs of each site. Also, learn to recognize and solve problems of subsurface drainage. Please bring lunch. Prerequisite: Grading
3 Saturdays, 10/15–10/29, 10 am–2:30 pm
Jane L. Didona, ASLA, RLA | NYBG | 172LAN425
$295/$319 Certificate Requirement

PORTFOLIO AND PRESENTATION SKILLS
Create visually compelling portfolios to present to potential clients. Learn how to develop professional documentation for a variety of audiences through in-class design charrettes and individualized projects. Both print and electronic media presentations will be discussed. Prerequisite: Landscape Design III
5 Thursdays, 3/16–4/13, 6–9:15 pm
Lisa DuRussel | NYBG | 173LAN555
$379/$419 Certificate Requirement

“...once you go through the Landscape Design Program at NYBG. It teaches you to think about the art and functionality of a garden’s design, as well as the needs of both the plants and the environment. It was a unique and wonderful experience to walk through NYBG to do a grade analysis, consider drainage, or simply see what had begun to bloom that morning!”

—Maria Eugenia Gonzalez-Paredes, 2016 Graduate

INSTRUCTOR BIOS CAN BE FOUND ONLINE AT NYBG.ORG/ADULTED
**Landscape Design Students & Alumni Series**

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

**TUESDAYS, 1–3 PM, AFTER LDSA MEETINGS**

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

For more information about the LDSA, see p. 55.

---

**A TRULY NATIVE GARDEN: A CHALLENGE MET**

NYBG’s Native Plant Garden, designed by Oehme, van Sweden, offers a range of microclimates across 3.5 acres of varied terrain. Learn how the planting plan—with nearly 100,000 native trees, shrubs, wildflowers, ferns, and grasses—was developed, and how it’s successfully maintained. Curator Michael Hagen describes how many planting challenges were resolved and offers advice for designers working with natives.

A graduate of Oxford University, Michael Hagen is Curator of both the Rock Garden and the Native Plant Garden at NYBG. He previously served as Staff Horticulturist for over 11 years at Stonecrop Gardens in Cold Spring, New York, and was Garden Manager at Rocky Hills, in Mt. Kisco, a preservation project of the Garden Conservancy.

**Tuesday, 11/15, 1–3 pm | NYBG | 172LAN265B**

---

**THE INS AND OUTS OF BOXWOOD**

Andrea J. Filippone combines landscape design with ecologically sound scientific practices, specializing in boxwood and deer-resistant plantings. Her presentation focuses on defining structure and space in the outdoor environment, reflecting her extensive experience with more than 50 boxwood cultivars she raises organically in her five-acre nursery in Pottersville, New Jersey.

President of AJF Design and a Partner in F2 Environmental Design, Andrea J. Filippone has taught at Harvard’s Graduate School of Design. Her work has been featured in The New York Times, ELLE DECOR, AD Germany, House and Garden, Organic Gardening, and in Outstanding American Gardens by Page Dickey and Gardens of the Garden State by Nancy Berner and Susan Lowry.

**Tuesday, 12/13, 1–3 pm | NYBG | 172LAN265C**

---

**THE GOOD GARDEN: THOUGHTS ON RESIDENTIAL LANDSCAPE DESIGN**

Ecology, practicality, and aesthetics receive equal billing in the work of Manhattan- and Hamptons-based landscape architect Edmund Hollander, known especially for his award-winning gardens that integrate a site’s human, natural, and architectural ecology. He will share his design principles as illustrated in a portfolio of outstanding regional, national, and international residential projects.

Edmund Hollander, RLA, FASLA, President of Hollander Design, is the recipient of numerous design awards, including a 2016 Honor Award from ASLA-NY and NYSSO’s 2015 Award in Landscape Design. Trained in Horticulture at NYBG, he graduated from Vassar College and the University of Pennsylvania, and has taught at the City College of the University of New York and the Graduate School of Fine Arts at the University of Pennsylvania. His recent book, *The Good Garden* (The Monacelli Press), was written with Anne Raver.

**Tuesday, 10/25, 1–3 pm | NYBG | 172LAN265A**

---

**IN THE GARDEN: ADVICE FROM A COLOR SPECIALIST**

For designers in any field, finding the right color for the job is essential. For landscape designers, who must consider ever-changing light and the seasonal growth of plants, choosing appropriate color schemes can be complex and challenging. Famed color consultant Eve Ashcraft turns her highly trained eye to the garden, offering advice for the colors of paving, walls, furniture, pools, and decorative objects as well as for plants.

Eve Ashcraft studied to be a fine art painter, then found her career when people began asking her to pick the right color for their clothes, rooms, or even typefaces. Her clients have included Giorgio Armani (walls), Ralph Lauren (catalogs), Banana Republic (watch faces) and Martha Stewart (paint lines) as well as private clients, including Steve Martin. She is the author of *The Right Color: Finding the Perfect Palette for Every Room in Your Home* (Artisan).

**Tuesday, 2/21, 1–3 pm | NYBG | 173LAN265E**

---

**DESIGNING PLANT COMMUNITIES: THE ART AND SCIENCE OF SUCCESSFUL NATIVE PLANTING**

In this presentation for designers at all levels of experience, Claudia West shows how to ensure success in designing with native plants by using a plant community-based method. She will introduce the science behind lasting plant combinations—essential knowledge for creating and maintaining domestic landscapes and rain gardens that are resilient, beautiful, and diverse.

Claudia West, a leading voice in ecological landscape design, works with design and restoration professionals to return American native plants to our landscape by making them more widely acceptable. Currently ecological sales manager at North Creek Nurseries in Landenberg, PA, she holds a Master’s Degree in Landscape Architecture from the Technical University of Munich, and is co-author, with Thomas Rainer, of *Planting in a Post-Wild World*.

**Tuesday, 3/21, 1–3 pm | NYBG | 173LAN265F**
PHOTOGRAPHY

The Garden offers a world of natural inspiration for you to observe and interpret with the help of award-winning photographers.

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

Tuesday, 9/24, 10 am–1 pm
Donald Gambino | NYBG | 171GWP151A

Tuesday, 2/7, 10 am–1 pm
Donald Gambino | NYBG | 173GWP151B

$49/$59

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

Wednesday, 10/5, 10 am–4 pm
Jeffrey Falk | NYBG | 172GWP928

$105/$119

FUNDAMENTALS OF DIGITAL PHOTOGRAPHY
This three-session course provides a solid foundation for the beginning digital photographer upgrading from a point & shoot camera, or anyone new to digital SLR photography. We’ll cover the basics of digital photography, the art of seeing as a photographer sees, and how to manage available light regardless of weather or time of day. Each class includes an introductory lecture and demonstration, a field session in the Garden to practice techniques with your own camera, and a review of your work at the end of the day. Dress for the weather, and bring your digital camera, monopod or tripod, and lunch.

3 Saturdays, 10/29–11/12, 10 am–2:30 pm
Wayne Cahilly & Meghan Cahilly | NYBG | 172GWP202

$225/$249
PHOTOGRAPHING PEOPLE IN NATURE
Getting natural, flattering shots of people outdoors presents a variety of challenges...and opportunities. Learn the basic skills that will help you capture beautiful photographs in nature. We will cover simple camera settings, lighting techniques, and how to work with compositional elements found on Garden grounds. The day ends with a classroom review and critique of your images. Basic camera skills a plus. Dress for the weather, and bring your camera and lunch.
Saturday, 10/22 (Rain Date 10/23), 9 am–3 pm
Ben Hider | NYBG | 172GWP204
$109/$119

NEW! FINE ART DIGITAL PRINTING: FROM CONCEPT TO OUTPUT
In the world of fine art digital photography, the print completes the art. But as print technology continuously changes, it’s imperative to keep up with the latest developments. Photographer Douglas Dubler is a leading color management expert, specializing in fine art digital printmaking. His class will cover everything necessary for achieving superior results in digital printing including capture/scanning, monitor calibration, file preparation, custom profiling, printing with a RIP, and paper selection. On display will be 40”x 60” fine art prints illuminated by a GTI Graphic Technology print viewer. In addition to the technical elements, Douglas will discuss the creative aspects of his botanical photographs shot at NYBG.
Saturday, 10/1, 10 am–1 pm
Douglas Dubler | NYBG | 172GWP215
$49/$59

NEW! STACKED IMAGE PHOTOGRAPHY
Stacked image photography—or “focus stacking,” is a technique used to increase the depth of field in a shot by taking a series of photos of the same subject, each at a different focused spot. Then, using special software, the portion of each image is aligned into one final image of extraordinary depth, sharpness and detail. For floral subjects, the results are images with a level of detail that up to now only a scientific botanical illustration could capture. This presentation will introduce techniques, equipment, types of software, and tips designed to produce images of breath-taking quality in subjects both life size and tiny.
Wednesday, 1/18, 10 am–12 pm
Jeffrey Falk | NYBG | 173GWP210
$35/$39

Capturing the Garden:
A Conversation with Larry Lederman

In this engaging session, Larry Lederman presents signature images from the 125th Anniversary edition book, The New York Botanical Garden. Showing exquisite new photographs of the extraordinary plants, gardens, and architecture that define NYBG’s 250-acre landscape, Lederman will share his technical, creative, and philosophical insights into the art of photography. Taken in all seasons and times of day, his poetic images capture the ever-changing moods of our woodlands, meadows, and collections. Whether you are an artist, a gardener, or a nature lover—it’s an event that will make you want to grab your camera and head to the Garden!
A member of the Garden’s Board of Advisors, Lederman has exhibited his work in the NYBG Ross Gallery, at the Four Seasons Restaurant, and at Olana, historic home of painter Frederic Edwin Church. Lederman is Counsel to Milbank, Tweed, Hadley &McCloy, where he was Chairman of the firm’s Global Corporate Practice, and is also a Distinguished Adjunct Professor at New York Law School.
Saturday, 10/15, 10:30 am–12 pm  |   Larry Lederman  |  NYBG  |  172GWP201  |   $10/$20

“Larry has developed a particular, lyrical, and artistic view of the Garden. Throughout the Garden’s 125-year history, no other observers have known and documented these collections so thoroughly.”
WELLNESS

Exercise or meditate within the Garden or find new ways to bring healthful plants into your everyday life.
TAI CHI FOR PEACE OF MIND AND BODY
This ancient, meditative Chinese exercise teaches relaxation, balance, and self-defense with an emphasis on correct body posture and spinal alignment. Students become relaxed, physically stronger, and ultimately healthier in both mind and body.
8 Saturdays, 9/24–11/19 (no class 10/8), 10–11 am
Robert Torres | NYBG | 171WEL102A
$29/$35

INTRO TO MEDITATION
Everything in our life is in continuous flux; yet we try to manipulate this changing world to attain happiness: “As soon as I finish this work project I can finally relax” or “When the weather becomes sunnier then I'll feel much happier.” It always seems, however, that a new problem crops up to take the place of the issue we’ve just resolved. From the Buddhist standpoint, happiness is not dependent on unreliable material conditions, but rather on the cultivation of a mind that is relaxed, kind, and clear. In this class we will learn basic meditation techniques that give rise to clear and loving states of mind, not only to “relax,” but also to more clearly tap into the richness of being awake. The session will include brief, guided meditations.
Saturday, 10/15, 10 am–12:30 pm
Lisa Wang | NYBG | 172WEL104A
$29/$35

INTRO TO AROMATHERAPY
Here’s where to start if you are interested in healing and restoring yourself with aromatherapy and the use of essential oils. Learn the basics of blending oils into your own skin care products or personalized fragrances for the home. Each student will create a decongestant inhaler and a custom—blend—bath oil from therapy—grade essential oils such as lavender, peppermint, eucalyptus, rosemary, and more. Materials included.
Thursday, 12/1, 6–9 pm
Ursula Basch | Manhattan | 172WEL121
$45/$49

INTRO TO HERBAL MEDICINE
Are you interested in bringing the natural benefits of herbs and herbal remedies into your life? Discover the differences between herbal medicine and homeopathy, the three major branches of herbalism, and the fascinating history of herbal medicine. Learn how to choose and store herbs, how to properly take herbal medicines, and how to use several common herbal remedies.
Thursday, 12/8, 6–7:30 pm
Robert Torres | NYBG | 173WEL102B
$105/$115

HERBAL PREPARATIONS WORKSHOP
Learn how to select fresh and dried herbs and turn them into natural teas, decoctions, tinctures, and salves from Ursula Basch, founder of The Herbal Bear School of Botanical Medicine. Your homemade products will be fresher, longer lasting, and more economical than those from the store. Make your own herbal tincture to take home. Materials included.
Thursday, 12/1, 6–9 pm
Ursula Basch | Manhattan | 173WEL130B | $65/$69

INTRO TO HERBAL MEDICINE
Herbs have been helping us stay healthy for thousands of years. Spend a day with herbal experts and learn how plants can be used for medicine, aroma, and refreshment.
Wednesday, 1/21, 10 am–1 pm
Lisa Wang | Manhattan | 172WEL130A | $45/$49

INTRO TO AROMATHERAPY
Herbal healing can be as simple as a cup of tea! This informative session covers the medicinal qualities and uses of easy-to-find herbs, and how to combine their roots, leaves, flowers, fruits, and seeds into effective, pleasing blends. Come discover this ancient art and power of this simple daily ritual that promotes health, balance, and serenity, and make your own herbal tea to take home. Materials included.
Saturday, 2/4, 10 am–1 pm
Elizabeth Scholl | NYBG | 173WEL143
$85/$89

INTRO TO HERBAL MEDICINE
Medical cannabis, including New York, have legalized the medical use of marijuana. Proponents tout it as a safe, effective treatment for symptoms of cancer, HIV, multiple sclerosis, Parkinson’s, and other conditions—while opponents see many physical and social risks. Explore the science behind this controversial plant, as Dr. Stephen Dahmer takes you through a brief history of the endocannabinoid system, its effects on the brain, its associated risks and disorders, and an overview of medical cannabis—today and in the future—in New York and across the United States.
Friday, 1/20, 10 am–11:30 pm
Stephen Dahmer, M.D. | NYBG | 173WEL128A
$29/$35

INTRO TO HERBAL MEDICINE
Soapmaking workshop
Spread the beauty and bouquet of the summer garden into your home with handcrafted, botanically infused soaps. Learn about the benefits of a variety of plant based ingredients for skin care. Using the melt-and-pour process, make four bars of soap to take home, customizing each one with a vast array of fresh and dried herbs, beneficial clays, seeds and essential oils.
Saturday, 2/4, 10 am–1 pm
Elizabeth Scholl | NYBG | 173WEL143
$85 / $89

ESSENTIAL OIL PERFUME WORKSHOP
Perfume can be traced back thousands of years to an ancient Egyptian tradition, belied by Cleopatra. Discover the history of perfume and the therapeutic benefits of essential oils in this hands-on workshop! Learn scent-blending techniques and how to identify and keep perfume notes. Formulate three unique signature scents using wax, carrier oils, and essential oils, and take home one solid perfume, a 2-oz. aromatherapy spray, and a roll-on perfume.
Saturday, 2/11, 10 am–1 pm
Karine Gordineer | NYBG | 173WEL134
$79/$89

NEW! HEALING POWER FROM THE BEEHIVE
Discover why ancient cultures as well as today’s holistic practitioners, consider this “liquid gold” one of nature’s best all-around remedies. But honey is not the only healing substance from bees—even their stings are thought to cure various ailments. Other beneficial hive by-products include beeswax, bee pollen, and propolis (“bee glue”). Learn which product can treat which ailments, and make your own jar of beeswax balm customised with essential oils and herbs to take home.
Saturday, 2/25, 10 am–1 pm
Kazumi Terada | NYBG | 173WEL136
$75/$79

Wellness classes are presented for informational purposes only and are not intended for self-medication.
ACADEMIC POLICIES & PROCEDURES

GENERAL COURSE INFORMATION

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

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

WORK-STUDY OPPORTUNITIES
A limited number of work-study opportunities are available with Adult Education. Computer skills are required. Call 718.817.8741 for details.

SCHOOL POLICIES FOR CERTIFICATE PROGRAMS
The Administrative Committee formulates policy in matters pertaining to quality of work and standards of performance in the School. It deals with the awarding of Certificates, rules of conduct, and student appeals. In these matters, communication with the Committee should be made through the Director.

Satisfactory Academic Progress Policy:
Student academic progress is measured by grades.

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

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

All incomplete grades will be converted to an F within four (4) weeks if work is not completed and a grade is not submitted by the agreed upon date. A student must then repeat the course and earn a passing grade in order to fulfill the Certificate requirements.

Note: Non-Certificate courses are not graded. Grades are available by logging on to your online student account. If you are a current student and have not previously registered online, please contact the Registration Office to set up your account. Students without online access may receive their grades over the phone or request a transcript.

Attendance
On-time attendance is required at all classes. Unexcused tardiness and absences are not accepted and will be evaluated on a case-by-case basis (exceptions can be made for illness, emergency, or other extenuating circumstances). Makeup quizzes and exams must be requested by the student and will be scheduled at the instructor’s discretion.

Course Exemptions
A student may qualify for course exemption by completion of any of the following:
- College courses taken for degree credit from an accredited college or university
- Evaluated non-collegiate sponsored instruction
- Proficiency examinations

Students who wish to be granted exemption from a required course must: 1) complete the Course Exemption Request form; 2) present transcripts showing an earned grade of C or higher; 3) present the course outline, syllabus, and/or other relevant supporting documentation. The School will then evaluate these submissions and make a decision on course exemption. If a student is exempted from the course, he/she is required to take an equal number of hours of an approved elective course to complete the Certificate.

Student Work
Final class assignments or projects for Certificate courses returned to the Registration Office by the instructor must be picked up by students no later than eight (8) weeks following the last day of class. After that time unclaimed assignments will be discarded.

Certificate Requirements
- Certificate requirements are those stated in the catalog from which the student first registered for a Certificate course.
- To qualify for a Certificate, students must receive passing grades in all required courses.
- A student has six (6) years from the start of their first required course, to complete a Certificate.

Certificate Graduation Ceremony
The 2017 ceremony is scheduled for Sunday, June 4. Students who expect to complete their Certificate requirements, or be enrolled in their remaining classes, by May 26, 2017, must inform the Registration Office in writing of their candidacy by Friday, February 24, 2017. Students will be contacted by April 21. If you are not contacted, or want details regarding the Graduation Ceremony, please call the Registration Office at 718.817.8747 or 800.322.6924.

Transcripts
Official ($4 each) and Unofficial transcripts (free) are available from the Registration Office year-round. Official transcripts must be requested in writing, including the name and address of the institution to which the transcript is being mailed. Transcripts are mailed within two (2) weeks and a copy is sent to the student.

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

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

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

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

CONTINUING EDUCATION UNITS (CEUs)
AIA, APLD, and ASLA Members: Don’t miss out! Get CEUs for many of our Gardening, Horticulture, and Landscape Design lectures. Events offering CEUs are noted in the catalog. Please check the individual event listing page at nybg.org/adulted for your organization’s logo.

BOTANICAL ART & ILLUSTRATION STUDENTS & ALUMNI GROUP (BILSA)
An annual meeting offers current students and alumni a forum to connect with peers and exchange ideas. For information contact Robin Jess at bilcoordinator@nybg.org

FLORAL DESIGN STUDENTS & ALUMNI GROUP (FDSA)
The FDSA meetings are an opportunity for current students and alumni to connect with peers in a professional setting. Held evenings at the Midtown Education Center, the meet-ups feature floral demonstrations by leading designers followed by a lively exchange of advice and ideas on everything pertaining to the industry. For information contact Trish O’Sullivan at fndcoordinator@nybg.org

LANDSCAPE DESIGN STUDENTS AND ALUMNI ASSOCIATION (LDSA)
The LDSA encourages a dynamic exchange of information among students, faculty, and alumni. It provides networking opportunities as well as an indispensable Q&A service via a Yahoo Group available to all members. Monthly meetings feature guest speakers and informal design critiques. The focus is on topics that extend beyond the classroom into the professional arena. All students and alumni in Landscape Design, Horticulture, and Gardening are invited to attend. Call Elaine Yellen at 914.723.4090 for details or drop by one of the scheduled meetings.

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

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

AMERICAN SOCIETY OF BOTANICAL ARTISTS (ASBA)
ASBA is a non-profit organization of more than 1,300 members throughout the US and in 20 other countries. Dedicated to promoting awareness of contemporary botanical art, ASBA provides educational opportunities through its annual conference and quarterly journal. The Botanical Artist. The NYBG generously provides the offices of ASBA’s headquarters on the third floor of the Watson Education Building; and ASBA brings the best of contemporary botanical art to the public by curating the Garden’s Triennial and other exhibitions. For membership and more information, visit asba-art.org

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

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

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 or contact Kathie Miranda at kathiemiranda@me.com

INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA)
The ISA offers CEUs for a number of Horticulture Certificate courses in this catalog. See pages 34–39. For more information visit isa-arbor.com

NORTHEAST ORGANIC FARMING ASSOCIATION (NOFA)
The NOFA offers CEUs to Accredited Organic Land Care Professionals (AOLCPs) who have made a commitment to practice in accordance with NOFA Organic Land Care Standards, to pursue ongoing education in methodology, and to create ecologically sound landscapes and living environments for their clients. For a complete list of NOBG courses that qualify, visit nofa.org

SCHOOL OF PROFESSIONAL HORTICULTURE
The New York Botanical Garden’s School of Professional Horticulture offers a comprehensive, full-time, two-year program combining the challenge of hands-on training with academic study to educate you to become a skilled and knowledgeable professional horticulturist. Our graduates enjoy a nearly 100% job placement rate. Alumni have successful careers in public and private sectors, including estate management, landscape design/ build firms, and public parks and gardens.

As a student in the School of Professional Horticulture you:
• Develop a strong foundation in horticultural and botanical sciences, including native plants, green roofs, urban agriculture, sustainability, greenhouse management, and ecological garden design.
• Get hands-on training with NYBG’s expert horticulturists and botanists.
• Visit nurseries, public and private gardens, ecological sites such as the New Jersey Pine Barrens, and celebrity estates.
• Attend lectures and meetings with horticulture and landscape experts from around the world.

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

Applications are due August 1 for the program beginning the following January. For a catalog, visit nybg.org/edu/soph or call 718.817.8797.

THE NEW YORK BOTANICAL GARDEN & BRONX COMMUNITY COLLEGE ASSOCIATE DEGREE PROGRAM
NYBG and Bronx Community College of The City University of New York offer an Associate Degree program. The first year of the program is offered at BCC where students take academic courses. The second year is spent at NYBG, where students take academic courses and work in horticulture. For more information, contact NYBG at 718.817.8747, or Rebeca Araya, rebeca.araya@bcc.cuny.edu, 718.289.5538.
**Botanical Art & Illustration**

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>COURSE TITLE</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sept. 7</td>
<td>6 pm</td>
<td>Botanical Drawing II: Focus on Flowers</td>
<td>10</td>
</tr>
<tr>
<td>Sept. 12</td>
<td>10 am</td>
<td>Botanical Watercolor for Beginners and Beyond</td>
<td>8</td>
</tr>
<tr>
<td>Sept. 13</td>
<td>6 pm</td>
<td>Botanical Drawing I: Methods and Materials</td>
<td>10</td>
</tr>
<tr>
<td>Sept. 19</td>
<td>6 pm</td>
<td>Botanical Watercolor</td>
<td>10</td>
</tr>
<tr>
<td>Sept. 22</td>
<td>6 pm</td>
<td>Botanical Drawing for Beginners</td>
<td>8</td>
</tr>
<tr>
<td>Sept. 29</td>
<td>10 am</td>
<td>Fall Leaves in Watercolor Workshop</td>
<td>8</td>
</tr>
<tr>
<td>Nov. 1</td>
<td>6 pm</td>
<td>Botanical Drawing II: Developing Your Skills</td>
<td>10</td>
</tr>
<tr>
<td>Nov. 3</td>
<td>11 am</td>
<td>Flower Grouping</td>
<td>11</td>
</tr>
<tr>
<td>Nov. 7</td>
<td>10 am</td>
<td>Botanical Watercolor for Beginners and Beyond</td>
<td>8</td>
</tr>
<tr>
<td>Nov. 28</td>
<td>6 pm</td>
<td>Botanical Drawing for Beginners</td>
<td>8</td>
</tr>
<tr>
<td>Nov. 30</td>
<td>6 pm</td>
<td>Oriental Lilies in Color</td>
<td>11</td>
</tr>
<tr>
<td>Jan. 10</td>
<td>10 am</td>
<td>Pen and Ink I: Techniques</td>
<td>10</td>
</tr>
<tr>
<td>Jan. 11</td>
<td>6 pm</td>
<td>Botanical Drawing I: Methods and Materials</td>
<td>10</td>
</tr>
<tr>
<td>Jan. 31</td>
<td>6 pm</td>
<td>Colored Pencil I: Techniques</td>
<td>10</td>
</tr>
<tr>
<td>Feb. 25</td>
<td>10 am</td>
<td>Plant Morphology for Botanical Illustrators</td>
<td>9</td>
</tr>
<tr>
<td>Mar. 8</td>
<td>6 pm</td>
<td>Botanical Drawing II: Developing Your Skills</td>
<td>10</td>
</tr>
<tr>
<td>Mar. 13</td>
<td>10 am</td>
<td>Botanical Watercolor for Beginners and Beyond</td>
<td>8</td>
</tr>
</tbody>
</table>

**Botany**

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>COURSE TITLE</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oct. 18</td>
<td>6 pm</td>
<td>Medical Botany</td>
<td>15</td>
</tr>
<tr>
<td>Oct. 22</td>
<td>10 am</td>
<td>Birds of New York: Basic Ornithology</td>
<td>14</td>
</tr>
<tr>
<td>Oct. 26</td>
<td>10 am</td>
<td>New York City Mushrooms</td>
<td>15</td>
</tr>
<tr>
<td>Nov. 10</td>
<td>6 pm</td>
<td>Caffeinated Plants</td>
<td>15</td>
</tr>
</tbody>
</table>

**Crafts**

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>COURSE TITLE</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oct. 18</td>
<td>6 pm</td>
<td>Girls’ Night Out: Autumn Centerpiece</td>
<td>17</td>
</tr>
<tr>
<td>Nov. 3</td>
<td>6:30 pm</td>
<td>Botanical Jewelry: Seed Charms</td>
<td>17</td>
</tr>
<tr>
<td>Nov. 17</td>
<td>6 pm</td>
<td>Girls’ Night Out: Autumn Centerpiece</td>
<td>17</td>
</tr>
</tbody>
</table>

**Floral Design**

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>COURSE TITLE</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sept. 17</td>
<td>10:30 am</td>
<td>Fundamentals of Style</td>
<td>22</td>
</tr>
<tr>
<td>Sept. 20</td>
<td>6 pm</td>
<td>Flower Arranging with Store-Bought Bouquets</td>
<td>20</td>
</tr>
<tr>
<td>Sept. 21</td>
<td>6:15 pm</td>
<td>Fundamentals of Form</td>
<td>22</td>
</tr>
<tr>
<td>Sept. 22</td>
<td>10:30 am</td>
<td>Hydrangea Happenings</td>
<td>20</td>
</tr>
<tr>
<td>Oct. 13</td>
<td>11 am</td>
<td>Ikebana: A Comprehensive Approach</td>
<td>21</td>
</tr>
<tr>
<td>Oct. 17</td>
<td>6 pm</td>
<td>Cascading Bouquet</td>
<td>21</td>
</tr>
<tr>
<td>Oct. 29</td>
<td>10:30 am</td>
<td>Fundamentals of Form</td>
<td>22</td>
</tr>
<tr>
<td>Nov. 1</td>
<td>11 am</td>
<td>Flower Arranging with Store-Bought Bouquets</td>
<td>20</td>
</tr>
<tr>
<td>Nov. 9</td>
<td>6:15 pm</td>
<td>Practical Planning for Designers</td>
<td>23</td>
</tr>
<tr>
<td>Nov. 10</td>
<td>6 pm</td>
<td>Easy and Elegant Floral Design Ideas</td>
<td>20</td>
</tr>
<tr>
<td>Nov. 14</td>
<td>6:15 pm</td>
<td>Fundamentals of Style</td>
<td>22</td>
</tr>
<tr>
<td>Nov. 15</td>
<td>6:15 pm</td>
<td>Wedding Design I: Personals</td>
<td>22</td>
</tr>
<tr>
<td>Dec. 1</td>
<td>6:15 pm</td>
<td>Color Theory for Floral Design</td>
<td>23</td>
</tr>
<tr>
<td>Dec. 3</td>
<td>10:30 am</td>
<td>Holiday Greens Workshop</td>
<td>22</td>
</tr>
<tr>
<td>Dec. 7</td>
<td>10 am</td>
<td>White Christmas: New York Style</td>
<td>22</td>
</tr>
<tr>
<td>Jan. 17</td>
<td>6:15 pm</td>
<td>Fundamentals of Style</td>
<td>22</td>
</tr>
<tr>
<td>Jan. 21</td>
<td>10 am</td>
<td>Wedding Design I: Personals</td>
<td>22</td>
</tr>
<tr>
<td>Jan. 21</td>
<td>10:30 am</td>
<td>Color Theory for Floral Design</td>
<td>23</td>
</tr>
<tr>
<td>Feb. 1</td>
<td>10:30 am</td>
<td>Compose Arrangements</td>
<td>21</td>
</tr>
<tr>
<td>Feb. 2</td>
<td>6:15 pm</td>
<td>Flower ID from A to Z</td>
<td>23</td>
</tr>
<tr>
<td>Feb. 7</td>
<td>11 am</td>
<td>Flower Arranging with Store-Bought Bouquets</td>
<td>20</td>
</tr>
<tr>
<td>Feb. 23</td>
<td>10:30 am</td>
<td>Arranging with Silk Flowers</td>
<td>23</td>
</tr>
<tr>
<td>Feb. 28</td>
<td>6 pm</td>
<td>Easy and Elegant Floral Design Ideas</td>
<td>20</td>
</tr>
<tr>
<td>Mar. 11</td>
<td>10:30 am</td>
<td>Wedding Design II: Ceremony &amp; Reception</td>
<td>23</td>
</tr>
</tbody>
</table>

---

**Gardening**

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>COURSE TITLE</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sept. 28</td>
<td>6:15 pm</td>
<td>Botanical Latin I</td>
<td>29</td>
</tr>
<tr>
<td>Oct. 4</td>
<td>6 pm</td>
<td>Put Your Garden to Bed</td>
<td>26</td>
</tr>
<tr>
<td>Oct. 6</td>
<td>6:15 pm</td>
<td>Fundamentals of Gardening</td>
<td>29</td>
</tr>
<tr>
<td>Oct. 29</td>
<td>10 am</td>
<td>All About Containers Saturday</td>
<td>30</td>
</tr>
<tr>
<td>Nov. 3</td>
<td>6:15 pm</td>
<td>Soil Science for Gardeners</td>
<td>29</td>
</tr>
<tr>
<td>Nov. 12</td>
<td>10 am</td>
<td>Apartment Gardener’s Saturday</td>
<td>30</td>
</tr>
<tr>
<td>Jan. 10</td>
<td>6:15 pm</td>
<td>Fundamentals of Gardening</td>
<td>29</td>
</tr>
<tr>
<td>Jan. 18</td>
<td>6:15 pm</td>
<td>Grow Gourmet Mushrooms Indoors</td>
<td>27</td>
</tr>
<tr>
<td>Jan. 25</td>
<td>11 am</td>
<td>Botanical Latin II</td>
<td>29</td>
</tr>
<tr>
<td>Feb. 7</td>
<td>6:15 pm</td>
<td>Fundamentals of Gardening</td>
<td>29</td>
</tr>
<tr>
<td>Feb. 15</td>
<td>6:15 pm</td>
<td>Rooftop Gardening</td>
<td>28</td>
</tr>
<tr>
<td>Feb. 16</td>
<td>6 pm</td>
<td>Terrariums Workshop</td>
<td>27</td>
</tr>
<tr>
<td>Feb. 16</td>
<td>6:15 pm</td>
<td>Soil Science for Gardeners</td>
<td>29</td>
</tr>
<tr>
<td>Mar. 2</td>
<td>6:15 pm</td>
<td>Fundamentals of Garden Design</td>
<td>29</td>
</tr>
<tr>
<td>Mar. 4</td>
<td>10:30 am</td>
<td>Perennial Plant Combinations</td>
<td>27</td>
</tr>
<tr>
<td>Mar. 7</td>
<td>10:30 am</td>
<td>Perennial Plant Combinations</td>
<td>27</td>
</tr>
<tr>
<td>Mar. 13</td>
<td>6:15 pm</td>
<td>Botanical Latin I</td>
<td>29</td>
</tr>
<tr>
<td>Mar. 14</td>
<td>6 pm</td>
<td>Compos: The Key to Healthy Gardens</td>
<td>28</td>
</tr>
<tr>
<td>Mar. 14</td>
<td>6 pm</td>
<td>Super Small Space Veggie Gardening</td>
<td>28</td>
</tr>
<tr>
<td>Mar. 16</td>
<td>6 pm</td>
<td>Build a Sustainable Urban Garden</td>
<td>28</td>
</tr>
<tr>
<td>Mar. 18</td>
<td>10 am</td>
<td>Vines and Climbers</td>
<td>28</td>
</tr>
</tbody>
</table>

**Horticulture**

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>COURSE TITLE</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sept. 20</td>
<td>6:15 pm</td>
<td>Introduction to Plant Science</td>
<td>34</td>
</tr>
<tr>
<td>Oct. 24</td>
<td>6 pm</td>
<td>Planting Pollinator a Garden</td>
<td>39</td>
</tr>
<tr>
<td>Oct. 17</td>
<td>10:00 am</td>
<td>Introduction to Plant Science</td>
<td>34</td>
</tr>
<tr>
<td>Jan. 9</td>
<td>6:15 pm</td>
<td>Introduction to Plant Science</td>
<td>34</td>
</tr>
</tbody>
</table>

** Horticultural Therapy**

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>COURSE TITLE</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan. 28</td>
<td>10 am</td>
<td>Introduction to Horticultural Therapy</td>
<td>42</td>
</tr>
<tr>
<td>Mar. 8</td>
<td>6 pm</td>
<td>Garden Design for Special Populations</td>
<td>43</td>
</tr>
</tbody>
</table>

**landscape design**

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>COURSE TITLE</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sept. 13</td>
<td>6:15 pm</td>
<td>Intro to Landscape Design</td>
<td>46</td>
</tr>
<tr>
<td>Sept. 21</td>
<td>6:15 pm</td>
<td>Landscape Design History</td>
<td>47</td>
</tr>
<tr>
<td>Sept. 29</td>
<td>6:15 pm</td>
<td>City Roof Design</td>
<td>46</td>
</tr>
<tr>
<td>Oct. 6</td>
<td>6:15 pm</td>
<td>Graphics III</td>
<td>48</td>
</tr>
<tr>
<td>Jan. 10</td>
<td>6:15 pm</td>
<td>Landscape Design History</td>
<td>47</td>
</tr>
<tr>
<td>Jan. 11</td>
<td>6:15 pm</td>
<td>Landscape Design I: Site Analysis and Schematic Design</td>
<td>47</td>
</tr>
<tr>
<td>Jan. 12</td>
<td>6:15 pm</td>
<td>Graphics II</td>
<td>48</td>
</tr>
<tr>
<td>Jan. 23</td>
<td>6:15 pm</td>
<td>Landscape Design II: Design Development</td>
<td>47</td>
</tr>
<tr>
<td>Feb. 25</td>
<td>10 am</td>
<td>Intro to Landscape Design</td>
<td>46</td>
</tr>
</tbody>
</table>

**Wellness**

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>COURSE TITLE</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oct. 20</td>
<td>6 pm</td>
<td>Intro to Meditation</td>
<td>53</td>
</tr>
<tr>
<td>Oct. 22</td>
<td>10 am</td>
<td>Herbal Saturday</td>
<td>53</td>
</tr>
<tr>
<td>Dec. 1</td>
<td>6 pm</td>
<td>Intro to Aromatherapy</td>
<td>53</td>
</tr>
<tr>
<td>Dec. 8</td>
<td>6 pm</td>
<td>Intro to Integrative Medicine</td>
<td>53</td>
</tr>
<tr>
<td>Feb. 8</td>
<td>6 pm</td>
<td>Medical Cannabis</td>
<td>53</td>
</tr>
</tbody>
</table>

**New Canaan Nature Center**

144 Oenoke Ridge (Rt. 124), New Canaan, Conn.

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>COURSE TITLE</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nov. 12</td>
<td>10 am</td>
<td>Pruning: How, When, and Where</td>
<td>26</td>
</tr>
<tr>
<td>Feb. 2</td>
<td>10:30 am</td>
<td>Perennial Plant Combinations</td>
<td>27</td>
</tr>
<tr>
<td>Mar. 9</td>
<td>10 am</td>
<td>Intro to Landscape Design</td>
<td>46</td>
</tr>
</tbody>
</table>
REGISTRATION

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

Classes are filled in the order that payments are received. Many classes fill quickly, so please sign up early to avoid disappointment!

Confirmations
Registration confirmations will be sent same day via email.

GENERAL INFORMATION

Entrance to the Garden on Class Days
You must bring your printed confirmation letter for admission to the Garden, and present it at the Mosholu Gate to gain entrance 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 for a recorded message. Please call at the times noted below for a recorded message on the status of your class:

- 7:30 am for classes beginning at 9–11:45 am
- 10:30 am for classes beginning at 12–3 pm
- 1 pm for classes beginning at 3:15–8 pm

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

A refund will be issued if your class is cancelled due to low enrollment. If you wish to withdraw from a course before it begins, you must notify the Registration Office TEN FULL BUSINESS DAYS BEFORE THE FIRST CLASS MEETING. We will issue a refund minus a $10 processing fee.

If you must withdraw fewer than ten days before the first class meeting:
No refunds will be granted for course levels 0–299 and 700–999
A 75% refund minus a $10 processing fee will be granted for course levels 300–599
Please note: Floral Design materials fees will not be refunded fewer than five (5) business days before the class begins.

Holidays | NYBG observes the following 10 holidays:
New Year's Day; Martin Luther King, Jr. Day; Presidents' Day; Memorial Day; Independence Day; Labor Day; Columbus Day; Thanksgiving and the following Friday (Veterans' Day observance); and Christmas.

Accessibility
The New York Botanical Garden is accessible and accommodating to persons with disabilities. Please ask about special needs accommodations when you register. For general information about accessibility at the Garden, visit nybg.org

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

Gift Certificates
Need the perfect gift for that plant-loving someone? Purchase a gift certificate for a NYBG class and give the gift of learning.
The New York Botanical Garden is located on property owned in full by the City of New York, and its operation is made possible in part by public funds provided through the New York City Department of Cultural Affairs.

The Sky Is the Limit at NYBG

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

Take a single-session workshop or dig deeper with one of our many Certificate programs.

Courses meet in our 250 magnificent acres in the Bronx and at our Midtown Education Center at 20 West 44th Street, just 2 blocks from Grand Central Terminal.

Painting ©Mary Anna Goetz, Conservatory, Oil, Enid A. Haupt Conservatory, NYBG