

NYBG

ADULT EDUCATION | SPRING-SUMMER 2020



NEW YORK BOTANICAL GARDEN

Welcome

Spring at the Garden is bursting with fresh ideas and new possibilities.

In April we mark the 50th Anniversary of Earth Day with several Garden events, including *In Praise of Pollinators*, where you can learn how to protect vital species and support native ecosystems.

We will kick off a new season of Wellness Wednesdays in May, when world-renowned integrative medicine pioneer Dr. Andrew Weil presents *The Healing Power of Mushrooms*.

Also in May, NYBG comes alive with *KUSAMA: Cosmic Nature*, a stunning exhibition that celebrates the art of Yayoi Kusama, who finds creative inspiration and expression in the mysteries and patterns of the everyday natural world.

In a way, that is what Adult Education at the Garden is all about. Helping you develop a more meaningful and creative relationship with nature: Through art or science. From meditation and observation to practical, hands-on training. From personal enjoyment to new, enriching careers.

So please spend some time with the catalog—we're sure you'll find compelling speakers and enriching classes that give you new perspectives and new outlets for expression.

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

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

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

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



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

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ABOUT THE COVER: Every spring dozens of plein-air artists spread out across Garden grounds to capture familiar scenes in a new light. The work, all completed in one day, is featured on our cover and throughout this catalog. Join us for NYBG's Fifth Annual Plein-Air Invitational on Saturday, June 6, 2020.



©Stewart White, *NYBG Rose Garden Selfie*, Gouache on clayboard

Floral Design Talk with Jeff Leatham



Jeff Leatham, artistic director of the Four Seasons Hotel George V in Paris—and designer of this year's *Orchid Show*—creates transformative floral installations that are destinations in themselves. His glittering celebrity portfolio includes Cher, Dolly, Oprah, and the Kardashians. And his floral wizardry has earned him the prestigious *Chevalier de l'ordre des Arts et des Lettres*...as well as more than a million Instagram followers!

Join us for a rare opportunity to hear a master artist explain how he brings his signature designs to life. Q&A and booksigning to follow.

Thursday, February 20, 11 am–12 pm | Ross Hall, NYBG
203FDN928 | \$25/\$29

The Life and Legacy of Russell Page

Christopher Woodward, Director of the Garden Museum, London



Englishman Russell Page (1906–85) was a visionary garden designer who drew inspiration from historic English, French and Islamic garden styles. The majority of his projects were closely-guarded secrets of the cultured rich, from the Aga Khan and the Agnellis, to Babe Paley and the Duchess of Windsor. Drawing from the Garden Museum's impressive archives, design historian Christopher Woodward (at left) shares fascinating

insights with an emphasis on Page's American works, including The Frick Collection, the PepsiCo Sculpture Garden, and even a pink plastic fountain in Central Park!

Friday, February 28, 11 am–12:30 pm
Mertz Library Reading Room, NYBG | 203LAN812 | \$25/\$29

Presented by The Humanities Institute. Supported by The Andrew W. Mellon Foundation

The Earth in Her Hands

Jamaica Kincaid in Conversation with Jennifer Jewell



Delve into the many ways in which women in horticulture—from botanists and landscape architects to artists and activists—profoundly impact the world today. NPR host Jennifer Jewell shares stories about the paradigm-shifting women she profiles in *The Earth in Her Hands*, including celebrated author and avid gardener Jamaica Kincaid who calls memory part of “the gardener's

real palette.” Come hear one of our finest writers talk about one of her greatest loves and the importance of plants in our lives.

Just Added! Join us for coffee and pastries starting at 10 am to mingle with many women featured in the book, including Karen Daubmann, Marta McDowell, Amy Merrick, Ngoc Minh Ngo, Frances Palmer, Susan Pell, Margaret Roach, and Edwina von Gal.

Friday, March 13, 11 am–12:30 pm | Ross Hall, NYBG
203HRT840 | \$25/\$29

Presented by The Humanities Institute. Supported by The Andrew W. Mellon Foundation



Earth Day 2020: In Praise of Pollinators

Wednesday, April 22, 10:30 am–12:30 pm | Ross Hall, NYBG

Fifty years ago, 20 million Americans coast-to-coast took to the streets to demonstrate for a healthy, sustainable planet—and marked the beginning of the modern environmental movement. That first Earth Day led to the creation of the U.S. Environmental Protection Agency, the passage of the Clean Air, Clean Water, and Endangered Species Acts, and comprehensive bans of a variety of toxic chemicals.

But there's still much work to be done! Today, pollinators are dying in unprecedented numbers and even facing extinction. Our ecosystems depend on these amazing bees, bugs, and butterflies. For Earth Day 2020, find out how you can protect pollinators, support native ecosystems and prevent the loss of biodiversity in our region.

Annie White: Nativars—From Nursery to Nature

As interest in pollinator gardens increases, the debate about the ecological benefits of “nativars”, cultivated varieties of native species, continues. A pioneer in nativar research, Annie White, Ph.D., discusses her findings on the preferences of insect pollinators and the most important considerations when selecting plants for any landscape.

Anand Persad: Creating Healthy Habitats for Pollinators

Think beyond the bloom! Entomologist and Manager of Plant Sciences Research at Davey Tree, Anand Persad, Ph.D., walks us through his research that shows the changes we can make in the landscape to best support pollinators, including how to provide nutritious early and late-season food sources and prime winter nesting locations.

Heather Holm: The Buzz About Native Bees

Discover the life cycle, pollen collection strategy, nesting habitat, brood rearing, and general characteristics of our region's native bees. Heather Holm, author of the award-winning *Bees: An Identification and Native Plant Forage Guide*, shares how and why native bees are particularly important as pollinators of native plants.

Presentations followed by discussion and audience Q&A, moderated by Michael Hagen, Curator of the Native Plant Garden and Rock Garden at NYBG.

204GAR820 | \$25/\$29

For session details, CEUs, and speaker bios, visit nybg.org/adulted

KUSAMA: Cosmic Nature

May 9–November 1, 2020



Forget yourself and become one with nature!

—Yayoi Kusama

NYBG is the exclusive venue for a once-in-a-lifetime exhibition devoted to internationally celebrated contemporary artist Yayoi Kusama. This first-ever comprehensive exploration of Kusama's lifelong fascination with the natural world takes place across the Garden's 250-acre landmark landscape and buildings.

Highlights include the artist's brand-new Infinity Mirrored Room, colossal polka-dotted flowers and pumpkins, soft sculptures, and mesmerizing paintings of botanical subjects, many on view for the first time in the U.S. Spectacular horticultural displays bring Kusama's works to life throughout the seasons.

Complementing the exhibition, visitors can enjoy fun themed weekends, Kusama films, specialty classes, and informative lectures.

Cosmic Nature: Embracing the Unknown



Guest Curator Mika Yoshitake discusses the organic forms central to Kusama's unique vision that integrates nature and human nature, the earthly and the cosmic. Emphasizing the pivotal role of

biomorphic imagery from both microcosmic and macrocosmic perspectives, Yoshitake examines the visceral impact of Kusama's artistic language and the ways life and afterlife profoundly coexist in the artist's lifelong journey of embracing the unknown.

Mika Yoshitake, Ph.D., Guest Curator for *KUSAMA: Cosmic Nature*, specializes in postwar Japanese art. As Curator of the Hirshhorn Museum and Sculpture Garden (2011–18), she curated *Yayoi Kusama: Infinity Mirrors* (2017–19) and is currently Guest Curator at LACMA for the international tour of *Yoshitomo Nara* (2020–21). Curator of the AICA-USA award-winning exhibition, *Requiem for the Sun: The Art of Mono-ha* (2012), Yoshitake recently curated *Parergon: Japanese Art of the 1980s and 1990s* at Blum & Poe, Los Angeles.

Saturday, May 9, 11 am–12 pm
Ross Hall, NYBG | 204HRT924

\$25/\$29 Lecture only
\$35/\$74 Includes *KUSAMA All-Garden Pass*
+ *Infinity Mirrored Room*

Yayoi Kusama: Awe Towards the Mystery of the Universe that Speaks to Us Across the Darkness of the Universe



©David Heald, Guggenheim

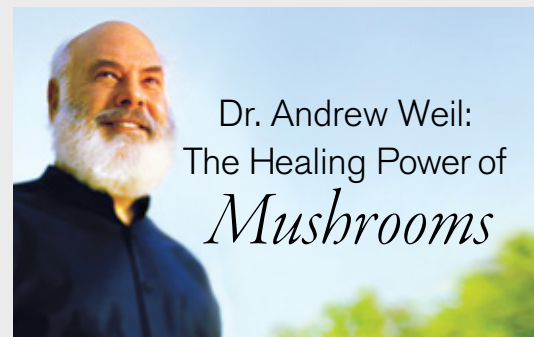
This lecture by pioneering Kusama scholar Alexandra Munroe surveys the artist's life and art with a focus on the key series and major themes occupying Kusama over seven decades of obsessive

production. Arguing for Kusama's radical originality and how she has challenged and changed the global art establishment, Munroe will reflect anecdotally upon her work with the artist and offer insight into Kusama's most recent activities, including her astonishing fame. The lecture title refers to a 2019 Kusama painting in the series, *My Eternal Soul*.

Alexandra Munroe, Ph.D., is Senior Curator, Asian Art and Senior Advisor, Global Arts at the Guggenheim Museum where she leads the Asian Art Initiative, organizing such award-winning exhibitions as *Gutai: Splendid Playground* and *Art and China after 1989*. In 1989 at the Center for International Contemporary Arts (CICA), New York, she curated *Yayoi Kusama: A Retrospective*, the first critical survey of Kusama's work ever presented.

Thursday, May 28, 11 am–12 pm
Ross Hall, NYBG | 204HRT917

\$25/\$29 Lecture only
\$35/\$74 Includes *KUSAMA All-Garden Pass*
+ *Infinity Mirrored Room*



Dr. Andrew Weil:
The Healing Power of
Mushrooms

Wednesday, May 27, 11 am–12 pm
Ross Hall, NYBG

A pioneer in integrative medicine, Dr. Andrew Weil has developed a lifelong passion for all aspects of mushrooms—their flavors, medicinal value, and ability to break down environmental toxins. His fascinating presentation will debunk old myths and share recent findings that suggest safe new approaches for our health and the health of our planet.

Like many traditional and alternative practitioners, Dr. Weil believes select fungi—from maitake and reishi to cordyceps and lion's mane—can strengthen the immune system, increase resistance to stress, and inhibit the growth of some malignant tumors. He has even developed skincare products that harness the anti-inflammatory benefits of mushrooms to reduce redness, dryness, and irritation.



©Melissa McMasters

Join us and find out how mushrooms offer so much more than good food—including the potential to help protect endangered honeybees from Colony Collapse Disorder.

After his talk, Weil will be joined by Dr. Michael Balick, NYBG's Director and Philecology Curator of the Institute of Economic Botany, for a wide-ranging discussion on mushrooms.

Physician and best-selling author **Andrew Weil, M.D.**, is a leader in the fields of health, wellness, and integrative medicine. Internationally recognized for his views on healthy living, aging, and the future of medicine and healthcare, Dr. Weil was named one of "the world's 100 most influential people" and one of "25 most influential Americans" by *TIME*.

204WEL804 | \$25/\$29

Botanical Art & Illustration



©James Gurney, *Peonies*, Gouache

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

THE CERTIFICATE PROGRAM

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

During the course of the program, students will:

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



“Studying for my Certificate in Botanical Illustration at NYBG was one of the most enjoyable and fulfilling challenges I’ve ever taken on. The instructors were wonderfully talented, inspiring and generous. After working in various areas within the art world for more than 20 years I feel like I’ve finally landed in the right spot. Thanks to this program, I feel fully prepared to broaden my career in botanical art.”

— GAYE GROSSMAN, 2019 Graduate

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

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

The Tri-State Botanical Artists of NYBG

TSBA is a lively group of over 40 artists who meet to engage in critiques, monthly art challenges, a sketchbook exchange, and topical discussions. We invite all current Certificate students and alumni to join us! TSBA is recognized as an ASBA Circle. Meetings are free and held once a month at NYBG. See p. 55 for more information.



SUMMER INTENSIVE CLASSES

July 6–August 7

Advance your artistic development quickly! Newcomers to Botanical Art & Illustration can complete *Botanical Drawing I & II* in just four weeks—less than half the normal time! Current and advanced students can choose from a selection of required classes also offered in a reduced time frame. See class listings for descriptions, instructors, and fees.

Botanical Drawing I: Methods and Materials

Mondays, Wednesdays, & Fridays, 7/6–7/17, 10 am–1 pm | NYBG | 211BIL301A
Tuesdays, Wednesdays, & Thursdays, 7/7–7/16, 10 am–1 pm | Manhattan | 211BIL301B

Botanical Drawing II: Developing Your Skills

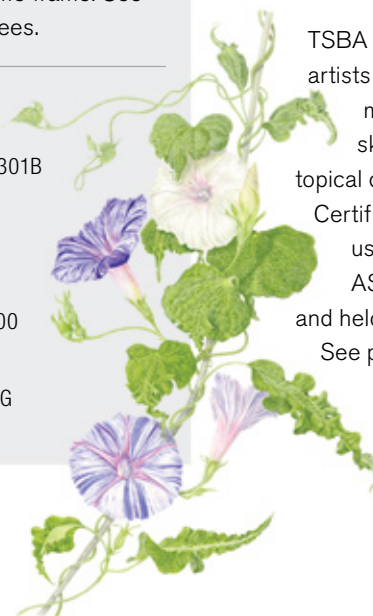
Mondays, Wednesdays, & Fridays, 7/27–8/7, 10 am–1 pm | NYBG | 211BIL302C

Pen and Ink

Monday, Wednesday, & Friday, 7/6, 7/8, & 7/10, 10 am–4:30 pm | NYBG | 211BIL400

Colored Pencil

Tuesdays, Wednesday, & Thursdays, 7/14–7/23 (no class 7/15), 10 am–2 pm | NYBG | 211BIL415A



STUDENT INFORMATION

CLASS MATERIAL:

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

HOMEWORK:

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

FINAL PROJECT FOR CERTIFICATION:

If you plan to graduate in June 2020, the final project due date is April 24, 2020. In order to be considered for graduation, you must submit a project proposal for approval to Robin Jess, the Program Coordinator. You must also show your work-in-progress to Robin at least once. Guidelines can be obtained from the Registration Office.

CERTIFICATE REQUIREMENTS

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

Course (in Recommended Order)	Code	Hours	Page
Botanical Drawing I: Methods and Materials	BIL 301	18	7
Botanical Drawing II: Developing Your Skills	BIL 302 P	18	7
The Basics of Visual Composition (should be completed early)	BIL 421 P	18	7
Botanical Drawing III: Focus on Flowers	BIL 303 P	18	7
Plant Morphology for Botanical Artists	BIL 300 P	20	7
Botanical Watercolor I	BIL 331 P	24	8
Practical Aspects of Botanical Art**	BIL 392 P	10	—
<i>Plus one of the following:</i>			
Internet Tools for Creatives, Part I: Social Media**	BIL 394	5	—
Internet Tools for Creatives, Part II: Website**	BIL 395	7	—
Pen and Ink	BIL 400 P	18	8
Colored Pencil	BIL 415 P	18	7
<i>Elective courses</i>		54	
TOTAL REQUIRED HOURS		228***	

ELECTIVES

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

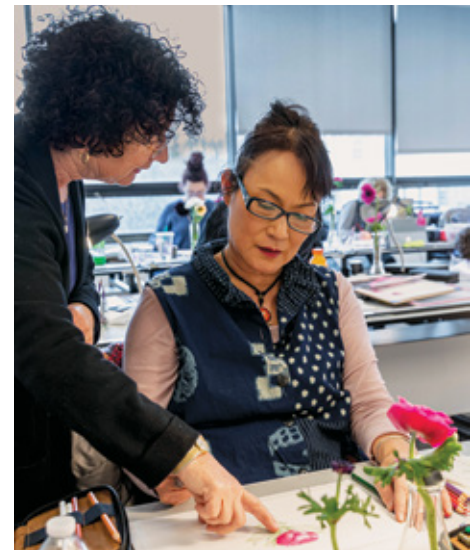
Course	Code	Hours	Page
Fabulous Ferns	BIL 344 P	18	8
Ink Wash Techniques	BIL 407 P	15	8
Feathers and Fur	BIL 322 P	12	8
Painting Orchids	BIL 399 P	15	8
Egg Tempera Techniques	BIL 366 P	10	8
Gold Ink	BIL 342 P	12	8
Branches with Lichen In Silverpoint with Watercolor	BIL 362 P	12	9
Aromatic Mints	BIL 491 P	8	9
Roses in Colored Pencil and Watercolor	BIL 483 P	15	9
Refined Graphite Rendering	BIL 370 P	18	9
Painting Flowers in Gouache with James Gurney	BIL 497 P	12	7
Painting with Movement and Depth	BIL 645 P	15	9
The Secrets of Making Color Glow	BIL 637 P	15	9

**Courses offered in the Fall-Winter Catalog

***Plus a final project that meets Certificate standards

P Courses with a prerequisite before you can register

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



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. Lectures and demonstrations are enhanced by individual instruction. Work at your own pace on a variety of pieces.

5 Mondays, 3/9–4/6, 10 am–2:30 pm
Laura Vogel | Manhattan | 203BIL140E

5 Wednesdays, 4/22–5/20, 10 am–2:30 pm
Laura Vogel | NYBG | 204BIL140A

5 Mondays, 5/4–6/8 (no class 5/25), 10 am–2:30 pm
Laura Vogel | Manhattan | 204BIL140B

5 Mondays, 6/22–7/20, 10 am–2:30 pm
Laura Vogel | Manhattan | 204BIL140C

5 Mondays, 10/19–11/16, 10 am–2:30 pm
Laura Vogel | Manhattan | 211BIL140D

\$345/\$379

BOTANICAL DRAWING FOR BEGINNERS

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

4 Tuesdays, 3/3–3/31 (no class 3/17), 5:30–8:30 pm
Rose Marie James | Manhattan | 203BIL145C

4 Tuesdays, 4/14–5/5, 6–9 pm
Katy Lyness | Manhattan | 204BIL145A

4 Wednesdays, 5/27–6/17, 10 am–1 pm
Linda Nemer gut | NYBG | 204BIL145B

4 Tuesdays, 9/15–10/6, 10 am–1 pm
Sarah Wry | NYBG | 211BIL145C

4 Wednesdays, 9/30–10/21, 6–9 pm
Katy Lyness | Manhattan | 211BIL145D

\$229/\$249

DRAWING SPRING TREES IN BLOOM

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

2 Fridays, 5/8 & 5/15 (rain date 5/29), 10 am–1 pm
Frank Guida | NYBG | 204BIL226

\$145/\$159

PLANT MORPHOLOGY FOR BOTANICAL ARTISTS

Examine the enormous variety of forms and structural adaptations of flowering plants—the world's dominant plant group. Through lectures, demonstrations, and laboratory studies, learn to recognize and draw the many plant parts and growth stages of the most common plant families.

Prerequisite: *Botanical Drawing I*

8 Thursdays, 4/23–6/11, 10 am–12:30 pm
Dick Rauh | NYBG | 204BIL300

\$495/\$545 *Certificate Requirement*

BOTANICAL DRAWING I: METHODS AND MATERIALS

Accurate observation translates into sensitive, realistic drawings and is an essential skill for botanical artists. Using basic shapes, fruit, and leaves, learn contour drawing with an emphasis on proportion, and explore techniques such as foreshortening, perspective, and line weight.

6 Thursdays, 3/26–5/7 (no class 4/9),
5:30–8:30 pm
Rose Marie James | Manhattan | 203BIL301C

6 Saturdays, 3/28–5/9 (no class 4/11),
10 am–1 pm
Laura Vogel | NYBG | 203BIL301D

Mondays, Wednesdays, & Fridays, 7/6–7/17,
10 am–1 pm
Linda M. Nemergut | NYBG | 211BIL301A

Tuesdays, Wednesdays, & Thursdays, 7/7–7/16,
10 am–1 pm
Rose Marie James | Manhattan | 211BIL301B

6 Tuesdays, 9/15–10/20, 6–9 pm
Katy Lyness | Manhattan | 211BIL301C

5 Fridays, 9/18–10/23 (no class 10/16),
10 am–1:35 pm
Kathie Miranda | NYBG | 211BIL301D

\$435/\$479 *Certificate Requirement*

BOTANICAL DRAWING II: DEVELOPING YOUR SKILLS

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

6 Wednesdays, 3/4–4/8, 6–9 pm
Kathie Miranda | Manhattan | 203BIL302C

6 Thursdays, 3/5–4/9, 10 am–1 pm
Linda M. Nemergut | NYBG | 203BIL302D

6 Thursdays, 5/14–6/25 (no class 5/21),
5:30–8:30 pm
Rose Marie James | Manhattan | 204BIL302A

6 Saturdays, 5/30–7/11 (no class 7/4),
10 am–1 pm
Laura Vogel | NYBG | 204BIL302B

Mondays, Wednesdays, & Fridays, 7/27–8/7,
10 am–1 pm
Linda M. Nemergut | NYBG | 211BIL302C

\$435/\$479 *Certificate Requirement*

BOTANICAL DRAWING III: FOCUS ON FLOWERS

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

6 Mondays, 4/20–6/8 (no class 5/18 & 5/25),
5:30–8:30 pm
Rose Marie James | Manhattan | 204BIL303A

6 Thursdays, 4/23–6/4 (no class 5/14)
10 am–1 pm
Linda M. Nemergut | NYBG | 204BIL303B

6 Thursdays, 9/17–10/29 (no class 10/15),
5:30–8:30 pm
Rose Marie James | Manhattan | 211BIL303C

\$435/\$479 *Certificate Requirement*

THE BASICS OF VISUAL COMPOSITION

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

4 Sundays, 4/19, 5/3, 5/31 & 6/14, 10 am–3 pm
Betsy Rogers-Knox | NYBG | 204BIL421

\$449/\$495 *Certificate Requirement*

COLORED PENCIL

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

Tuesdays, Wednesday, & Thursdays, 7/14–7/23,
(no class 7/15), 10 am–2 pm
Laura Vogel | NYBG | 212BIL415B

6 Saturdays, 10/17–11/21, 10 am–1 pm
Laura Vogel | NYBG | 211BIL415B

\$435/\$479 *Certificate Requirement*

NEW! Painting Flowers in Gouache with James Gurney

Artist James Gurney shares how he paints from life using his portable gouache setup. He'll start with a digital presentation to give an overview of his painting process in opaque water media, including gouache, casein, and watercolor. After a quick demo, we'll all work together on some basic exercises to get comfortable with the unique properties of gouache. In the afternoon session, you'll be able to paint in the classroom from a range of seasonal blooms provided by NYBG.

Best-known for his *New York Times* best-selling illustrated book series *Dinotopia*, **James Gurney** has hundreds of thousands of followers on YouTube and Instagram. A dedicated plein-air painter and sketcher, Gurney has also authored *Color and Light: A Guide for the Realist Painter*, worked on assignment for *National Geographic Magazine*, *Scientific American*, *Discover Magazine*, and the USPS, and had solo exhibitions at over 30 museums, including the Smithsonian, LA County Museum of Natural History, Norman Rockwell Museum, and Norton Museum of Art. Prerequisite: *Botanical Watercolor I*

Thursday, 6/4, 10 am–4 pm
James Gurney | NYBG | 204BIL497

\$219/\$245 *Certificate Elective*

Weekend watercolor Workshops

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

ORCHID FLOWERS

Sunday, 3/22, 10 am–3:30 pm
Laura Vogel | NYBG | 203BIL225B

MAGNOLIAS

Sunday, 4/5, 10 am–3:30 pm
Laura Vogel | NYBG | 204BIL217

SPRING TULIPS

Saturday, 4/25, 10 am–3:30 pm
Carrie Di Costanzo | Manhattan | 204BIL207A

Sunday, 5/17, 10 am–3:30 pm
Laura Vogel | NYBG | 204BIL207B

NEW! DAYLILIES

Sunday, 6/14, 10 am–3:30 pm
Sarah Wry | NYBG | 204BIL228

CHERRIES

Saturday, 6/27, 10 am–3:30 pm
Carrie Di Costanzo | NYBG | 204BIL212

PEACHES

Saturday, 7/11, 10 am–3:30 pm
Carrie Di Costanzo | Manhattan | 211BIL219A


Sunday, 8/23, 10 am–3:30 pm
Carrie Di Costanzo | NYBG | 211BIL219B

NEW! CARNATIONS

Sunday, 9/13, 10 am–3:30 pm
Carrie Di Costanzo | NYBG | 211BIL241

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

BOTANICAL WATERCOLOR I

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

7 Saturdays, 5/2–6/27 (no class 5/9 & 5/23),
10:30 am–2:30 pm
Susan Sapanara | Manhattan | 204BIL331A

8 Mondays, 9/14–11/16 (no class 9/28 & 10/12),
5:30–8:30 pm
Rose Marie James | Manhattan | 211BIL331B

8 Thursdays, 9/24–11/19 (no class 10/1),
10:30 am–1:30 pm
Laura Vogel | NYBG | 211BIL331C

\$569/\$625 *Certificate Requirement*

PEN AND INK


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

 Prerequisite: *Botanical Drawing II*

Monday, Wednesday, & Friday, 7/6, 7/8, & 7/10,
10 am–4:30 pm
Carol Ann Morley | NYBG | 211BIL400

\$435/\$479 *Certificate Requirement*


FABULOUS FERNS

From the fiddlehead to the frond, ferns have a charm all their own. In the studio 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 the medium of your choosing.  Prerequisite: *Botanical Drawing I*

3 Sundays, 3/1–3/15, 10 am–3:30 pm
Dick Rauh | NYBG | 203BIL344

\$359/\$395 *Certificate Elective*

NEW! INK WASH TECHNIQUES

If you're looking to transition from drawing to watercolor painting or fine tune your watercolor techniques, this class is for you. You will practice basic techniques such as flat washes, glazing, graded washes, and dry brush for fine details. Dilutions of India ink and earth tone inks will be used to depict botanical and natural science subjects. Please bring your drawings to the first class.  Prerequisite: *Botanical Drawing II*

3 Wednesdays, 3/18–4/1, 10 am–3:30 pm
Laura Vogel | NYBG | 203BIL407

\$359/\$395 *Certificate Elective*

NEW! FEATHERS AND FUR

Develop advanced graphite techniques for rendering the overlapping linear textures, patterns, and density found in feathers and furs. We will explore drawing with an eraser and using negative space. Please bring your own collection or photos to draw. Instructor will provide fur samples for in-class use.


 Prerequisite: *Botanical Drawing II*

3 Saturdays, 3/21, 4/4, & 4/18, 10 am–3:30 pm
Kathie Miranda | Manhattan | 203BIL322

\$359/\$395 *Certificate Elective*

NEW! PAINTING ORCHIDS

Using specimens from *The Orchid Show*, learn to paint the exquisite beauty of these delicate flowers. On day one, Dick Rauh will walk you through putting different types of orchids under the microscope to focus on their fine details and special adaptations. Then, master orchid artist Carol Woodin will show you techniques to achieve the waxy textures, subtle colors, and graceful forms of this flower family. Each student will make a book-plate sized painting in the style of a botanical monograph.

 Prerequisite: *Botanical Drawing II*

Tuesday–Thursday, 4/21–4/23, 10 am–3:30 pm
Dick Rauh & Carol Woodin | NYBG | 204BIL399

\$395/\$435 *Certificate Elective*


NEW! EGG TEMPERA TECHNIQUES

Join us for an introduction to the centuries-old painting methods using egg tempera. We will cover mixing pigments, brush-stroke techniques, scumbling, glazing, and how it all can be applied to achieve an ethereal quality in your botanical painting.

Saturday & Sunday, 5/16 & 5/17, 10 am–3:30 pm
Carrie Di Costanzo | NYBG | 204BIL366

\$295/\$325 *Certificate Elective*

NEW! GOLD INK

Strike gold and take your pen and ink drawings to a new level. See how easily 18-carat-gold liquid Spectralite ink flows from the nib of a traditional crow quill dip pen. You will transfer one of your favorite botanical drawings to toned paper, then make it glow! Embellish the petals and leaves with flowing lines of gold ink, create textures and details with gold crosshatch lines and stipple, and add additional details with luminous Prismacolor pencils. Come to the first class with several botanical drawings to choose from to create your gold ink drawing.  Prerequisite: *Pen and Ink*

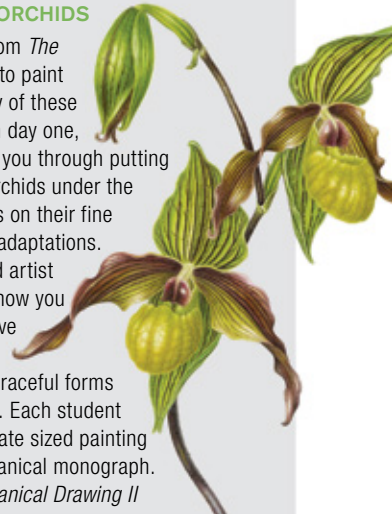
Monday–Wednesday, 6/1–6/3, 10 am–3:30 pm
Carol Ann Morley | NYBG | 204BIL342

\$395/\$435 *Certificate Elective*



Illustration left: Tulip (detail), ©Carrie Di Costanzo, NYBG Instructor

Illustration right: *Paphiopedilum* 'Hideki Okuyama' (detail), ©Carol Woodin, NYBG Instructor



NEW! ROSES IN COLORED PENCIL AND WATERCOLOR

Revel in summer's bounty while learning how to layer watercolor, colored pencil, and watercolor pencil to create rich color, detail, and form. You'll experiment with a dynamic blend of botanical drawing and painting techniques while focusing on the structure of roses in bloom. 📌 Prerequisite: *Botanical Drawing I*

Tuesday–Thursday, 6/23–6/25, 10 am–4 pm
Wendy Hollender | NYBG | 204BIL483

\$395/\$435 *Certificate Elective*

NEW! AROMATIC MINTS

Rosemary, basil, sage, and lavender, all members of the mint family, are known for their fragrance, flavor, and medicinal value. Create a lovely study page of various leaf textures, colors, and shapes, featuring their unique square stems and diminutive, delicate flowers in white and violet. 📌 Prerequisite: *Botanical Watercolor I*

2 Saturdays, 7/18 & 7/25, 10 am–2:30 pm
Robin Jess | Manhattan | 211BIL491

\$225/\$245 *Certificate Elective*

REFINED GRAPHITE RENDERING

Though graphite is generally considered to be most beneficial in producing sketches or “studies” for more complete drawings and paintings, it can also be used to produce finished illustrations suitable for publication in scientific journals. Using pencils of various densities, participants in this workshop will learn how to create a range of linear effects and crisp detail. The application of tone through the use of tortillions and graphite dust will result in drawings that “minimize the evidence of the medium”—that is, achieve the appearance of fully-realized renderings. 📌 Prerequisite: *Botanical Drawing II*

Monday, Tuesday, & Wednesday, 8/10–8/12,
10 am–3:30 pm
Scott Rawlins | NYBG | 211BIL370

\$295/\$325 *Certificate Elective*

NEW! BRANCHES WITH LICHEN IN SILVERPOINT WITH WATERCOLOR

Capture the subtle color and texture of lichen as it contrasts with the soft patina of a branch drawn in silverpoint. Learn to prepare the substrate, develop a skillful handling of the drawing material and add touches of color to the finished drawing. 📌 Prerequisite: *Botanical Drawing II*

3 Wednesdays, 9/16–9/30, 10 am–2:30 pm
Linda M. Nemergut | NYBG | 211BIL362

\$295/\$325 *Certificate Elective*

Visiting Artists

Join us for these special workshops with
Mary Dillon and Fiona Strickland.

PAINTING WITH MOVEMENT & DEPTH

Award-winning botanical artist Mary Dillon visits from Ireland to share the relaxed and slow painting techniques she uses to bring movement, vitality, and depth to her work. She will be your guide as you explore the nuances of layering color and create a dynamic composition. Experience how her reflective process will help your painting become both expressive and engaging. 📌 Prerequisite: *Botanical Drawing II*

Wednesday–Friday, 5/13–5/15, 10 am–4:30 pm | Mary Dillon | NYBG | 204BIL645 | \$445/\$489
Certificate Elective

THE SECRETS OF MAKING COLOR GLOW

A renowned master of color application, UK botanical artist Fiona Strickland demonstrates how to maximize your success in color mixing and increase your ability to achieve rich glowing color.

You will practice using her signature dry brush technique to apply multiple layers of transparent watercolor to a small drawing of an observed specimen. 📌 Prerequisite: *Botanical Watercolor I*

Tuesday–Thursday, 9/29–10/1,
10 am–4:30 pm | Fiona Strickland
NYBG | 211BIL637 | \$445/\$489

Certificate Elective

**LAST CALL FOR ENTRIES**

The Fourth NYBG Triennial

Abundant Future: Cultivating Diversity in Garden, Farm, and Field

Co-presented with the American Society of Botanical Artists

November 25, 2020–April 18, 2021

Submission Deadline: May 31, 2020

For more info visit asba-art.org

Botany



©Stapleton Kearns, *Rose Garden*, Oil on linen

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, forest ecology, cross-cultural understanding, or just a deeper appreciation of nature's seasonal beauty.

THE CERTIFICATE PROGRAM

The NYBG Botany Certificate Program is designed to deepen a student's scientific understanding of the plant kingdom. Engage in subjects such as native flora, ethnobotany, ecology, and botanical nomenclature. Courses reflect the Garden's strengths in botanical science research, as well as its world-famous and unequalled resources—the William and Lynda Steere Herbarium, housing 7.8 million dried plant specimens, and the LuEsther T. Mertz Library, with its collection of more than 550,000 volumes, nearly 12,000 serial titles, and over 11 million archival documents.

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

CERTIFICATE REQUIREMENTS

Course	Code	Hours*	Page
Plant Structure	BOT 315	24	12
Plant Physiology**	BOT 316 P	21	—
Plant Diversity	BOT 317 P	24	13
Dendrology: Woody Plant Identification	BOT 375	15	13
Herbaceous Plant Identification	BOT 376	15	13
<i>One of the four Native Flora courses:</i>		12	
Native Flora in Autumn	BOT 331		13
Native Flora in Winter**	BOT 332		—
Native Flora in Spring	BOT 333		12
Native Flora in Summer	BOT 334		13
Elective Courses (See current electives below)		58	
TOTAL REQUIRED HOURS		169	

ELECTIVES

Course	Code	Hours*	Page
Botanical Latin	GAR 360	10	12
Morphology of Flowering Plants	BOT 431 P	16	12
Nature's Pharmacy	BOT 346	4	12
Basic Plant ID	BOT 308	6	12
The Science of Tree Communication	BOT 385	6	12
Spring Mushrooms	BOT 330	6	12
Microscope Basics	BOT 398	6	13
Basic Mushroom Identification	BOT 304	6	13
Moss Identification	BOT 310	9	13
Forest Ecology	BOT 326	12	13
Systematic Botany	BOT 432 P	21	13
The Origin of Trees	BOT 311	3	12
The Secrets of Plants DNA	BOT 320	3	12
Paleobotany: The Origin of Plants	BOT 434 P	12	13
How Carbon Sinks Work	BOT 389	3	13

*Course hours do not include exam hours

**Courses offered in the Fall-Winter Catalog

P Courses with a prerequisite before you can register

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



“A love of hiking and a curiosity about nature inspired my deep dive into the study of botany at NYBG. This wonderful program is taught by top scientists with infectious enthusiasm for their subjects. Classes benefit from multiple perspectives of students whose ages and backgrounds vary widely but are unified by their love of nature. Post-certificate I’ve enjoyed becoming a citizen scientist and creating a botany study group of fellow students from my NYBG classes.”

— KATHY MELE, 2019 Graduate

QUESTIONS?

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





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.

NEW! THE ORIGIN OF TREES

A world without trees is hard to envision, but a reality eons ago. What did Earth's first trees look like, and how have trees changed over time? This course examines the evolution of arborescence, from the first fossil trees in the Catskills, to Coal Age giants, to the awe-inspiring coastal redwoods.

Saturday, 7/11, 10 am–1 pm
Jamie Boyer, Ph.D. | NYBG | 211BOT311

NEW! THE SECRETS OF PLANT DNA

Modern technology has vastly expanded our understanding of plant DNA—how it is structured, how it functions, and how it evolved. In this hands-on workshop, you'll perform basic DNA extraction under the guidance of Dr. Damon Little, NYBG's Associate Curator of Bioinformatics. He'll share how his DNA analyses of the plant material found in over-the-counter herbal supplements show that these products are mislabeled at an astonishing rate.

Friday, 8/14, 10 am–1 pm
Damon Little, Ph.D. | NYBG | 211BOT320

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

BOTANICAL LATIN

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

5 Mondays, 3/9–4/6, 6:15–8:15 pm
Jennifer Bakshi | Manhattan | 203GAR360B

5 Fridays, 9/25–10/23, 10:30 am–12:30 pm
Jennifer Bakshi | NYBG | 211GAR360A

\$255/\$279 *Certificate Elective*

NATURE'S PHARMACY


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

Sunday, 3/1, 10 am–2:30 pm
Andrea Candee | NYBG | 203BOT346B

Saturday, 9/12, 11 am–3:30 pm
Amy Anthony | NYBG | 211BOT346A

\$115/\$125 *Certificate Elective*

MORPHOLOGY OF FLOWERING PLANTS

Angiosperms (flowering plants) are the dominant plants in most of the world's habitats today. Through laboratory demonstrations and dissections, examine the morphology of flowers, fruits, and vegetative plant parts. You'll also learn about the development of these structures.  Prerequisite: *Plant Structure*

6 Mondays, 3/9–4/13, 12–3:10 pm
Regina Alvarez | NYBG | 203BOT431S

\$395/\$435 *Certificate Elective*

BASIC PLANT ID

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

2 Wednesdays, 3/11 & 3/18, 5–8 pm
Elle Barnes | Manhattan | 203BOT308B

2 Tuesdays, 6/16 & 6/23, 5–8 pm
Katie Bronson | NYBG | 204BOT308A

2 Saturdays, 7/11 & 7/18, 10 am–1 pm
Clara Holmes | Manhattan | 211BOT308B

\$145/\$159 *Certificate Elective*

PLANT STRUCTURE

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

9 Thursdays, 3/19–5/14, 5–8 pm
Nicole Fusco | NYBG | 203BOT315B

9 Thursdays, 9/17–11/12, 10 am–1 pm
Steve Kutos | NYBG | 211BOT315P

\$559/\$615 *Certificate Requirement*

THE SCIENCE OF TREE COMMUNICATION

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

2 Tuesdays, 4/7 & 4/14, 10 am–1 pm
Steve Kutos | NYBG | 204BOT385A

2 Wednesdays, 5/6 & 5/13, 6–9 pm
Steve Kutos | Manhattan | 204BOT385B

\$125/\$139 *Certificate Elective*

SPRING MUSHROOMS

As the mushroom season awakens, discover how and where to hunt for Oysters, Inky Caps, Wine Caps, Dryad's Saddle, Reishi, and the early spring Chicken Mushroom. Even the elusive Morels occur throughout the metropolitan region, and spring is the ideal time to find them. Learn to correctly identify mushrooms, how to differentiate them from look-alikes, and get recipes for the best ways to prepare them in a meal.

2 Thursdays, 4/16 & 4/23, 10 am–1 pm
Paul Sadowski | NYBG | 204BOT330A

2 Mondays, 4/27 & 5/4, 10 am–1 pm
Paul Sadowski | Manhattan | 204BOT330B

\$145/\$159 *Certificate Elective*

NATIVE FLORA IN SPRING

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

4 Fridays, 4/17–5/8, 10 am–1 pm
Nancy Slowik | NYBG | 204BOT333A

4 Saturdays, 4/25–5/16, 10 am–1 pm
Clara Holmes | Manhattan | 204BOT333B

\$295/\$325 *Certificate Requirement*

DENDROLOGY: WOODY PLANT IDENTIFICATION

From towering tulip trees to creeping partridge berries, woody 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 of the most commonly planted in New York City. Class meets outdoors, rain or shine. Bring a hand lens 10x or greater.

6 Saturdays, 4/18–5/30 (no class 5/23),
10:30 am–1:30 pm
James Kaechele | NYBG | 204BOT375

\$379/\$415 *Certificate Requirement*

PLANT DIVERSITY

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

9 Mondays, 4/27–6/29 (no class 5/25), 5–8 pm
Jamie Boyer, Ph.D. | NYBG | 204BOT317S

\$559/\$615 *Certificate Requirement*

HERBACEOUS PLANT IDENTIFICATION

Herbaceous plants occupy prairies, wetlands, forest understories, and many other habitats. The identifying characteristics of this diverse group of plants are often quite different from those of woody plants. You'll learn the fundamental herbaceous plant identification characteristics, as well as some specialized ones for select native and cultivated species. Focus will be on broad-leaved plants rather than grasses, sedges, and rushes.

6 Tuesdays, 5/5–6/9 (no class 5/23), 5–8 pm
Michael Hagen | NYBG | 204BOT376

\$355/\$395 *Certificate Requirement*

NATIVE FLORA IN SUMMER

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

4 Fridays, 6/19–7/17 (no class 7/3), 10 am–1 pm
Nancy Slowik | NYBG | 204BOT334

\$295/\$325 *Certificate Requirement*

MICROSCOPE BASICS

It takes some finesse, but we can help you build your confidence and ability with microscopes to view a variety of fungi and plant material. We'll show you how to adjust and calibrate the eyepiece, focus on both thick and thin specimens, and properly light your subject. You'll also learn to thinly slice, stain, and make permanent mounts so you can create your very own slide library.

2 Thursdays, 7/23 & 7/30, 6–9 pm
Paul Sadowski | Manhattan | 211BOT398

\$145/\$159 *Certificate Elective*

NEW! BASIC MUSHROOM IDENTIFICATION

The summer months bring forth a great diversity of mushrooms in our region. Chanterelles, Milk Caps, Black Trumpets, Boletes of all kinds, and many other choice edibles make an appearance. But many mushrooms also fruit that can cause problems for the consumer. Learn how to sort through this abundance with hands-on techniques and observations.

2 Wednesdays, 8/5 & 8/12, 10 am–1 pm
Paul Sadowski | NYBG | 211BOT304

\$145/\$159 *Certificate Elective*

FOREST ECOLOGY

Explore the basic principles that influence the ecological relationships of the forest ecosystem. Using the Garden grounds as a site for observation and field study, learn to understand the forces that shape our natural environment—the Northeast Woodland. Labs and lectures provide an experience that expands your skills for the stewardship of plants. Dress for the weather.

4 Wednesdays, 8/26–9/16, 5:30–8:30 pm
Stephanie Schmieg | NYBG | 211BOT326

\$295/\$325 *Certificate Elective*

SYSTEMATIC BOTANY

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

8 Tuesdays, 9/8–10/27 (no class 9/23), 12:30–3:30 pm
Lydia Paradiso | NYBG | 211BOT432S

\$495/\$545 *Certificate Elective*

NATIVE FLORA IN AUTUMN

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

4 Thursdays, 9/17–10/8, 10 am–1 pm
Nancy Slowik | NYBG | 211BOT331A

4 Saturdays, 9/26–10/24 (no class 10/10), 10 am–1 pm
Clara Holmes | Manhattan | 211BOT331B

\$295/\$325 *Certificate Requirement*

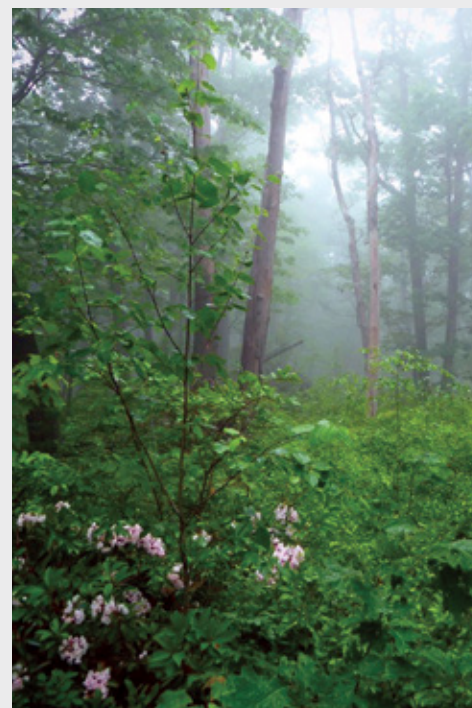
PALEOBOTANY: THE ORIGIN OF PLANTS

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

P Prerequisite: *Intro to Plant Science* or *Plant Structure*

4 Sundays, 10/4–11/1 (no class 10/11), 1–4 pm
Jamie Boyer, Ph.D. | NYBG | 212BOT434

\$295/\$325 *Certificate Elective*

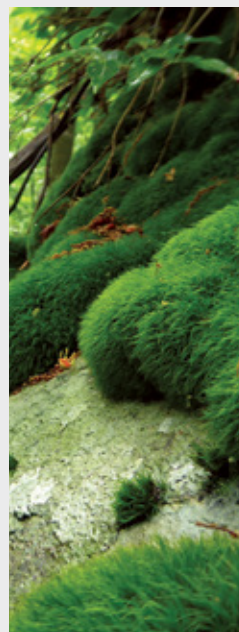


NEW! HOW CARBON SINKS WORK

Study the carbon cycle to understand how and why large natural ecosystems such as forests and oceans help mitigate the effect of climate change. We'll discuss the ways in which natural climate solutions such as planting forests and enriching the soil in our landscapes may help speed the removal of carbon from the atmosphere.

Friday, 5/15, 10 am–1 pm
Dan Kane, Ph.D. | NYBG | 204BOT389

\$59/\$65 *Certificate Elective*



MOSS IDENTIFICATION

Take advantage of this special opportunity to immerse yourself in the world of mosses with Dr. Keith Bowman, who studied and co-taught with esteemed bryologist Dr. Robin Wall Kimmerer. Use microscopes to observe how mosses differ on a cellular level. Learn to distinguish particular species within common moss genera, including *Hypnum* and *Dicranum*. You'll also venture onto Garden

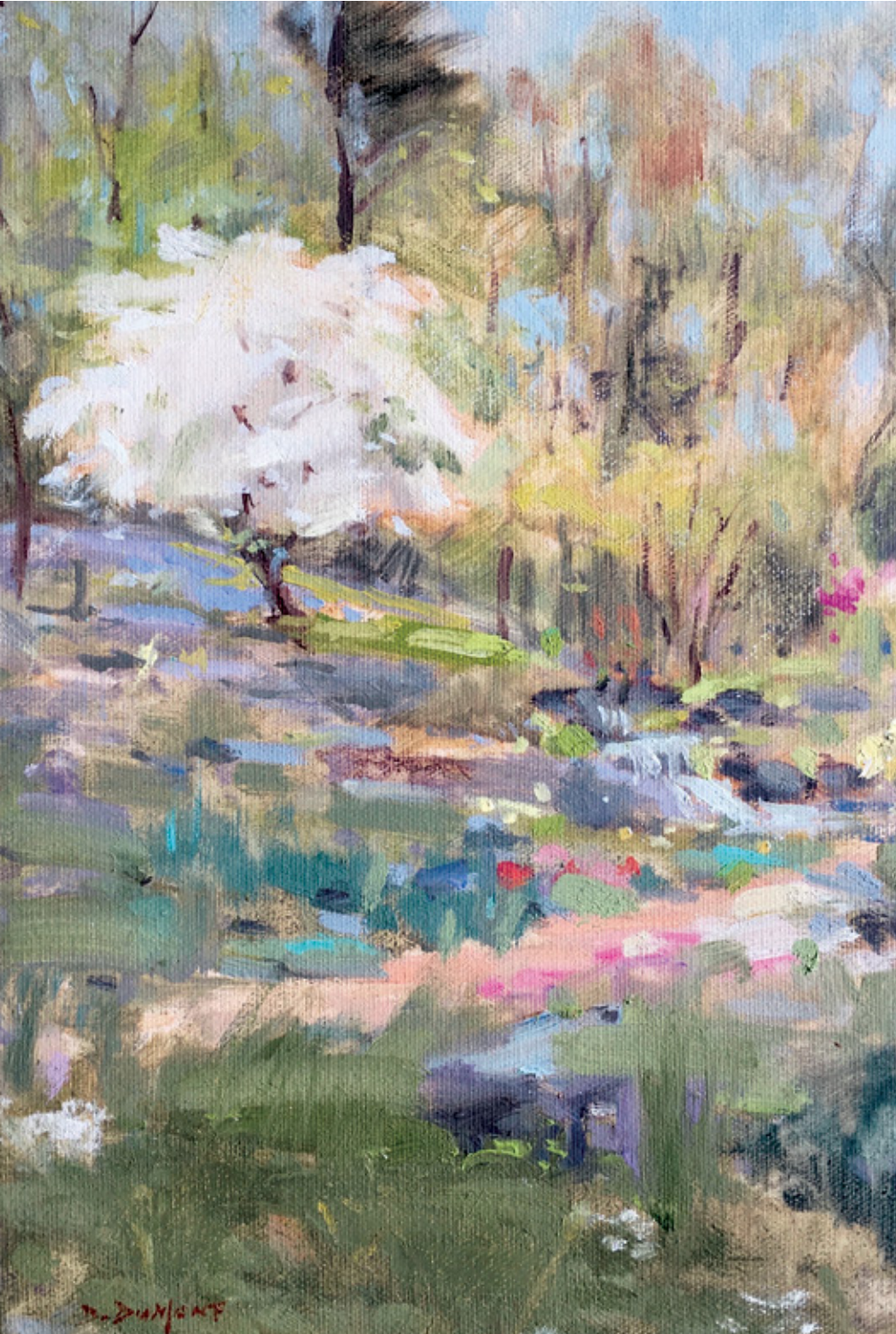
grounds to find these ancient plants in their own territory to better understand their ecology.

Wednesday–Friday, 8/19–8/21, 10 am–1 pm
Keith Bowman | NYBG | 211BOT310

\$295/\$325 *Certificate Elective*

Crafts & DIY

Let Mother Nature be your muse! Use botanicals to make prints, paper, & more! We make it easy—all materials are included!



©Denise Dumont, *Spring in the Rock Garden*, Oil on canvas

WATERCOLOR BASICS

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

Saturday, 3/14, 12–2 pm
Jenny Kroik | NYBG | 203CRF277B

Thursday, 6/18, 6:30–8:30 pm
Jenny Kroik | Manhattan | 204CRF277A

\$95/\$105

MUSHROOM PAPERMAKING

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

Saturday, 4/4, 11 am–2:30 pm
Dorothy Smullen | NYBG | 204CRF130

\$95/\$105

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.

Sunday, 4/19, 11 am–1:30 pm
Diana Conklin | NYBG | 204CRF150

\$115/\$125

FRIENDS' NIGHT OUT: SPRING WILDFLOWERS

Gather your friends, coworkers, and/or family 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 conversation. Unwind while learning something new!

Thursday, 4/30, 6:30–8:30 pm
Nsombi Woodson | Manhattan | 204CRF170A

Wednesday, 8/5, 6:30–8:30 pm
Nsombi Woodson | Manhattan | 211CRF170B

\$129/\$145

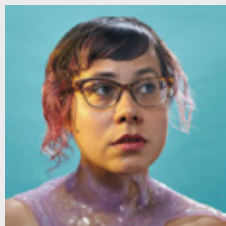
NEW! TENUGUI: HAND-DYED TOWELS

Discover the beauty and utility of tenugui—cotton towels that have been used in Japan since the third century. Starting with dyed tenugui cloth, you will experiment with the traditional discharge dyeing process of Bassen to create delicate botanical patterns on the colorful cloth. You'll walk away with your own hand-printed tenugui that is sure to bring simple pleasure to life's most basic activities.

Friday, 5/29, 10:30 am–12:30 pm
Ruri Kippenbrock | NYBG | 204CRF254A

Saturday, 8/8, 11 am–1 pm
Ruri Kippenbrock | Manhattan | 211CRF254B

\$115/\$125

NEW! FOREST SOUNDSCAPES WITH ANGÉLICA NEGRÓN

Create a soundscape that gives voice to the natural world. Composer Angélica Negron, who created an immersive choral experience in the

Thain Family Forest last fall, will show you how to combine sounds to capture a sense of place. Learn to record the electrical changes on plant leaves and turn those fluctuations into sound. Using smartphone technology, you'll mix those haunting sounds with other field recordings to create your own aural composition.

Saturday, 7/18, 11 am–1 pm
Angélica Negron | NYBG | 204CRF260

\$125/\$139

NEW! BOTANICAL EMBROIDERY

Embroidery is tightly tied to human culture. The earliest known examples—intricately decorated clothes, boots, and hats found in Russia—date back to 30,000 BCE. NYC-based artist Jessica Maffia will teach you six different stitches that you will use to create a botanically-inspired, small work of embroidery to hang in your home. Find inspiration in nature and modern art to bring a contemporary twist to this ancient craft.

Sunday, 5/31, 11 am–2 pm
Jessica Maffia | NYBG | 204CRF278

\$95/\$105

NEW! DRAWING PATTERNS IN NATURE

Inspired by Yayoi Kusama's "infinity nets," create abstract drawings based on live plants. NYC-based artist Jenny Kroik will demonstrate basic drawing tools and techniques. Then you'll experiment with creating infinity patterns from the shapes you discover within the plants' structure. While no experience is necessary, this course can serve as inspiration for painters, illustrators, textile designers, graphic artists, and more.

Saturday, 6/6, 11 am–1 pm
Jenny Kroik | NYBG | 204CRF291A

Wednesday, 8/19, 6:30–8:30 pm
Jenny Kroik | Manhattan | 211CRF291B

\$95/\$115

PLEIN-AIR DRAWING

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

Saturday, 6/13 (Rain date: 6/20), 10 am–2 pm
Frank Guida | NYBG | 204CRF198

\$95/\$105

NEW! KUSUDAMA ORIGAMI

One of three styles of origami, kusudama was inspired by the patterns made from herbs and flowers in Japanese medicine balls. Experience the meditative quality of this simple yet intricate art as you connect multiple versions of the same shape of folded paper into a recognizable pattern. Create a kusudama model then experiment with designing other abstract forms.

Wednesday, 6/24, 11 am–1 pm
Ben Friesen | Manhattan | 204CRF222A

Thursday, 8/13, 11 am–1 pm
Ben Friesen | NYBG | 211CRF222B

\$79/\$85

BOTANICAL BLUES: CYANOTYPE

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

Saturday, 6/27 (rain date 6/28), 10:30 am–3 pm
William Waitzman | NYBG | 204CRF128A

Saturday, 8/29 (rain date 8/30), 10:30 am–3 pm
William Waitzman | NYBG | 211CRF128B

\$139/\$155

NEW! WILLOW BASKETRY

Hand-woven willow baskets bring a touch of rustic yet elegant beauty to your home. Jessica Clark, owner of the Hudson Valley's Willow Vale Farm, will teach you the traditional willow weaving techniques of rib basketry. Students will weave one large leaf-shaped tray or two smaller ones to hold and display almost anything. Strong hands are a must!

Saturday, 8/22, 11 am–3 pm
Jessica Clarke | NYBG | 211CRF285

\$175/\$189

NEW! WOODLAND WILDFLOWERS

Celebrated artist/designer Sourabh Gupta fashions high-end flowers and botanical sculptures from paper,



Photo © Matthew Novak

metal, and other everyday materials. Recently, his work has graced the pages of *The New York Times* and *Elle Magazine*, the walls of the Bolton Historical Museum, and the gown worn by fashion designer Tory Burch to this year's Met Gala. Join Sourabh for a sneak peek into his

process, then use his techniques to create a lifelike botanical sculpture of native New York wildflowers.

Saturday, 7/25, 11 am–3 pm
Sourabh Gupta | NYBG | 211CRF232

\$149/\$165



Practice the meditative art of kusudama origami.



Weave a leaf-shaped willow basket.



Craft a mosaic flower with stained glass.

NEW! FANTASY FLOWER MOSAICS

Guided by expert artist Yulia Hanansen, discover the basics of mosaic making with stained glass. Explore color theory, composition, layout, and how to effectively portray the structure of flowers. Become familiar with the best materials to use, as well as how to safely use a variety of tools. You will complete a stunning 8"x10" mosaic featuring a fantasy flower to take home.

Saturday, 8/15, 10 am–3 pm
Yulia Hanansen | Manhattan | 211CRF240A

Sunday, 8/16, 10 am–3 pm
Yulia Hanansen | NYBG | 211CRF240B

\$175/\$189

Floral Design



©Marc Taro Holmes, *Afternoon Yellow Rose*, Watercolor

The New York Botanical Garden is home to New York City's oldest and most prestigious Floral Design Program, and for over four decades has sent hundreds of graduates on to enjoy rewarding careers. With hands-on practice and with personal attention from NYBG's rigorous yet nurturing instructors, you'll develop the mastery and confidence to express yourself through flowers. So come take a class with us at the Garden or our Midtown Education Center! Choose an individual course for fun, or pursue a Certificate in Floral Design.

THE CERTIFICATE PROGRAM

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

During the course of the program, students will:

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



SUMMER INTENSIVE PROGRAM

July 6–August 7

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

CLASSES

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

Monday–Friday, July 6–August 7, 10 am–5 pm | NYBG | 211FDN950

TUITION AND REFUNDS

\$6,435 (Member) / \$7,079 (Non-Member)

A \$1,995 non-refundable deposit is due at registration.

Tuition includes all flowers, supplies, and a complete set of tools.

An optional payment schedule is available if requested. \$1,995 is due at registration, 2nd payment due May 18, final payment June 15. No refunds after Monday, June 15, 2020.

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

The NYBG Floral Design Certificate Program will be licensed by the NY State Department of Education in 2020.

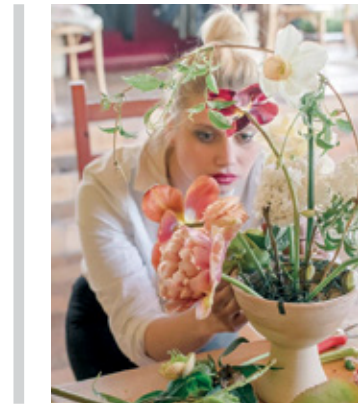


Photo © Corbin Gurkin

“A few years ago, I had an epiphany that I wanted to be a floral designer. And I wanted to do that as quickly as possible. I took NYBG’s Summer Intensive, and by the end of that year, I was working as a full-fledged designer and wedding consultant for Starbright Floral Designs. Fast forward two years, and I am now the Director of Events for Wild Things in London. I’ve also started my own company and already have three weddings booked for 2020! I am so excited for the year ahead.”

— AMY ROBERTS, 2018 Graduate



GET NYBG CERTIFIED

Founded in 1977, the NYBG Certificate is a nationally recognized mark of excellence in floral design that tells the world you have the talent and knowledge to interpret changing trends and provide creative design solutions. Along with comprehensive hands-on instruction from industry pros, you'll develop the contacts and business savvy you need to advance your career or manage your own business.

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

CERTIFICATE REQUIREMENTS

Course	Code	Hours	Page
Fundamentals of Form	FDN 300	16	20
Fundamentals of Style	FDN 302 P	16	20
Wedding Design I: Personals	FDN 304 P	16	20
Color Theory for Floral Design	FDN 306	8	21
Flower ID from A to Z	FDN 308	8	21
Interior Plantscapes	FDN 310	8	21
Shopping the New York Flower Market	FDN 400 P	4	20
Modern Sympathy Designs	FDN 382 P	6	21
Wedding Design II: Ceremony & Reception	FDN 305 P	16	20
Grand-Scale Arrangements	FDN 502 P	8	21
Event Planning for the Floral Designer	FDN 504 P	12	21
Elective courses		24	
TOTAL REQUIRED HOURS		142	

ELECTIVES

Course	Code	Hours	Page
The Mystique of Orchids	FDN 397	3	18
Farm To Table: Spring Bulb Centerpiece	FDN 348	4	18
Pink Peonies: Contemporary Tabletop Design	FDN 356	3	18
Prop Styling with Botanicals	FDN 312	4	19
Exploring Tablescape: Floral Runners	FDN 362	9	19
Ikebana: A Comprehensive Approach	FDN 325	3	19
Materials as Muse: Making Art With Flowers	FDN 323	4	19
Antique Roses and Ferns: A Modern Take	FDN 387	4	19
The Cutting Edge with Brittany Asch	FDN 441	3	19
Weddings Redefined with Susan McLeary	FDN 416	6	21
The Anatomy of a Centerpiece with Susan McLeary	FDN 417	5	21

P Courses with a prerequisite before you can register

The Floral Design Certificate Program is an accredited Education Partner of the American Institute of Floral Designers (AIFD). See p. 55 for details.



Midtown Mini Summer Intensive

Our mini-intensive provides an accelerated way to complete the first few requirements in the NYBG Certificate Program. You'll work with industry professionals to gain the key skills needed to become a floral designer.

**FUNDAMENTALS OF FORM | FUNDAMENTALS OF STYLE
WEDDING DESIGN I**

Monday–Thursday, 7/13–7/30, 11 am–3:30 pm | Manhattan | 211FDN955

TUITION

\$1,710 (Member) \$1,885 (Non-Member)

Tuition includes all materials. Payment schedule is available if requested.

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

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.

Thursday, 3/19, 6–8 pm | Rose G. Edinger | Manhattan | 203FDN210H

Wednesday, 4/1, 6–8 pm | Rose G. Edinger | Manhattan | 204FDN210A

Tuesday, 6/23, 6–8 pm | Robert Fletcher | Manhattan | 204FDN210B

Monday, 9/14, 6–8 pm | Bessie Mendler | Manhattan | 211FDN210B

\$49/\$55

SIMPLE AND SLEEK FLORAL DESIGN IDEAS

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

Monday, 3/16, 11 am–1 pm | Bessie Mendler | NYBG | 203FDN203E

Thursday, 3/26, 6–8 pm | Rose G. Edinger | Manhattan | 203FDN203F

Tuesday, 5/19, 6–8 pm | Nsombi Woodson | Manhattan | 204FDN203B

Wednesday, 7/8, 6–8 pm | Nsombi Woodson | Manhattan | 211FDN203C

\$49/\$55

NEW! THE MYSTIQUE OF ORCHIDS

The intricate structure of orchids has beguiled cultures across the globe for centuries. Learn how best to showcase their sensual beauty as you design an arrangement using a variety of unusual specimens straight from The Orchid Show. Practice different wiring techniques that enable you to weave the orchids into your design. \$85 materials fee.

Friday, 4/24, 11 am–2 pm | Joshua Werber | NYBG | 204FDN397

\$115/\$125 *Certificate Elective*

NEW! FARM TO TABLE: SPRING BULB CENTERPIECE

Style a glorious spring centerpiece bursting with sweet hyacinths, daffodils, and ruffled parrot tulips. Discover where to source the best flowers and how to artfully add organic vegetables and herbs to your arrangement. You will leave with a fresh farm-to-table design set in a rectangular wooden container that is tabletop ready. \$125 materials fee.

Tuesday, 4/7, 10:30 am–3 pm | Trish O'Sullivan

New Canaan Nature Center | 204FDN348A

Tuesday, 4/21, 10:30 am–3 pm | Trish O'Sullivan | NYBG | 204FDN348B

\$125/\$139 *Certificate Elective*

NEW! PINK PEONIES: CONTEMPORARY TABLETOP DESIGN

With gorgeous pink palettes and intoxicating fragrance, peonies are the blossoms most loved by floral designers and enthusiasts. You will learn how to select complementary shades and vases to offset their soft beauty. Then, finish your creation by adding textural grey floral and botanical elements for a centerpiece with a modern, monochromatic look. \$125 materials fee.

Tuesday, 5/5, 10:30 am–3 pm | Trish O'Sullivan

New Canaan Nature Center | 204FDN356A

Tuesday, 5/19, 10:30 am–3 pm | Trish O'Sullivan | NYBG | 204FDN356B

\$125/\$139 *Certificate Elective*

PROP STYLING WITH BOTANICALS

Professional prop stylist Robin Zachary shares her insights on styling photos using botanicals. She'll also show you how to curate a variety of tabletop settings, including modern, vintage, and rustic. Some backdrops and props will be provided, but feel free to bring your own, along with your camera or smartphone so you can experiment. No professional experience necessary. The focus of this class is on photography & styling rather than designing floral arrangements. \$20 materials fee.

Saturday, 8/8, 11 am–2 pm | Robin Zachary | Manhattan | 211FDN312B

\$95/\$105 *Certificate Elective*

EXPLORING TABLESCAPES: FLORAL RUNNERS

Tabletop garlands and floral runners are enjoying a surge in popularity thanks to their lush and elegant beauty. Learn the techniques of color, repetition, and rhythm to create a centerpiece that spans the length of the wedding table, cleverly designed in segments for easy transport. Students will leave with their own garland creation. \$90 materials fee.

Monday, 6/1, 10 am–2:30 pm | Nsombi Woodson | NYBG | 204FDN362

\$125/\$139 *Certificate Elective*

IKEBANA: A COMPREHENSIVE APPROACH

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

3 Saturdays, 6/6–6/20, 10 am–1 pm | Junko Miura | Manhattan | 204FDN325

\$235/\$279 *Certificate Elective*

NEW! MATERIALS AS MUSE: MAKING ART WITH FLOWERS

What is the line between art and decoration? Think beyond the confines of "pretty" and consider flowers in terms of line, gesture, texture, and form. We will examine the bright colors and infinite patterns of a masterwork by Yayoi Kusama and create sculptural interpretations in dialogue with that work. Then, unleash your creativity and design a creation inspired by an artwork of your choice. \$175 materials fee.

Saturday, 6/13, 10 am–4:30 pm | Joshua Werber | NYBG | 204FDN323A

2 Tuesdays, 8/11 & 8/18, 6–9 pm | Joshua Werber | Manhattan | 211FDN323B

\$165/\$195 *Certificate Elective*

NEW! ANTIQUE ROSES AND FERNS: A MODERN TAKE

Take creative inspiration from 19th- and 20th-century English gardens blooming with delicate roses with names like Amnesia, Quicksand, and Early Grey. Step-by-step, learn easy techniques for crafting an opulent tabletop from a bygone era. Our choice of container—faux mercury glass footed compote bowls and fern covered glass hurricane vases—is the key that turns Victorian styling into modern design. \$125 materials fee.

Tuesday, 6/2, 10:30 am–3 pm | Trish O'Sullivan
New Canaan Nature Center | 204FDN387A

Tuesday, 6/9, 10:30 am–3 pm | Trish O'Sullivan | NYBG | 204FDN387B

\$125/\$139 *Certificate Elective*

The Cutting Edge A Floral Design Series

Photo: courtesy of BRRCH / Photograph by Richie Talbot

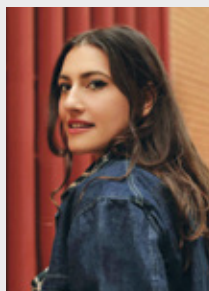
Brittany Asch

"Why do flowers always have to be pretty? Nature is so much bigger than pretty."

This spring *The Cutting Edge* marks its fifth year of bringing top floral designers to the Garden for intimate sessions that open up new perspectives and techniques. And to celebrate, we're bringing back the designer who launched our series.

Brittany Asch is among New York's most in-demand floral artists—a forward-thinking renegade who challenges traditional notions of color, form, variety...and even the way flowers make us feel and see. Her dynamic arrangements combine vivid blooms—in pastels, neons, purples, and scarlets—with everything from fake pearls to dyed orchids, spray painted fronds, and ostrich feathers. The results seem to come from a fantasy world—"I'd like to think they look like they could have been made by someone with a wand," she says.

In this hands-on workshop, Asch will share her signature style that's both classical and avant-garde, and help you expand your palette of possible colors, textures, and materials, as you create your own dramatic centerpiece.



Brittany Asch founded BRRCH on the principle of delivering flowers as art to heighten our appreciation of the natural world. She has produced floral pieces for film, books, concerts, TV, music videos, garments, installations, album covers, and royalty. Her work has been endorsed by *The New York Times*, *Vogue*, Martha Stewart, and an ever-growing roster of clients.

Wednesday, 4/15, 11 am–4 pm | Brittany Asch | NYBG | 204FDN441

\$355/\$389 *Certificate Elective*

CERTIFICATE REQUIREMENTS

These classes are also open to Non-Certificate students.

FUNDAMENTALS OF FORM

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

4 Thursdays, 3/19–4/16 (no class 4/9),
10:30 am–3 pm
Thomas Cawley | NYBG | 203FDN300A

4 Sundays, 4/5–5/3 (no class 4/12), 11 am–3:30 pm
Nsombi Woodson | NYBG | 204FDN300C

3 Mondays & 3 Wednesdays, 4/20–5/6, 6:15–8:55 pm
Rose G. Edinger | Manhattan | 204FDN300B

Monday–Thursday, 7/13–7/16, 11 am–3:30 pm
Nsombi Woodson | Manhattan | 211FDN300D

4 Sundays, 9/13–10/18 (no class 9/20 & 10/11),
11 am–3:30 pm
Nsombi Woodson | NYBG | 211FDN300E

6 Tuesdays, 9/15–10/20, 6:15–8:55 pm
Rose G. Edinger | Manhattan | 211FDN300G

4 Wednesdays, 9/23–10/14, 10:30 am–3 pm
Thomas Cawley | NYBG | 211FDN300F

\$395/\$435 *Certificate Requirement*

FUNDAMENTALS OF STYLE

The ability to command a broad vocabulary of styles defines the professional floral designer. From Neo-Classical and Victorian to English garden and Flemish, understanding floral styles expands your design options, evokes specific moods, and helps create the perfect setting. \$245 materials fee.

P Prerequisite: *Fundamentals of Form*

4 Thursdays, 4/23–5/14, 11 am–3:30 pm
Nsombi Woodson | NYBG | 204FDN302A

Monday–Thursday, 7/20–7/23, 11 am–3:30 pm
Jameel Gilbert | Manhattan | 211FDN302B

\$395/\$435 *Certificate Requirement*

WEDDING DESIGN I: PERSONALS

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

P Prerequisite: *Fundamentals of Style*

4 Thursdays, 6/4–6/25, 11 am–3:30 pm
Nsombi Woodson | NYBG | 204FDN304A

Monday–Thursday, 7/27–7/30, 11 am–3:30 pm
Robert Fletcher | Manhattan | 211FDN304B

\$395/\$435 *Certificate Requirement*

**WEDDING DESIGN II: CEREMONY & RECEPTION**

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

P Prerequisite: *Wedding Design I*

6 Tuesdays, 4/7–5/12, 6:15–8:55 pm
Nsombi Woodson | Manhattan | 204FDN305A

4 Wednesdays, 4/22–5/13, 10 am–2:30 pm
Thomas Cawley | NYBG | 204FDN305B

\$395/\$435 *Certificate Requirement*

**Floral Design Talk with Jeff Leatham**

Jeff Leatham, artistic director of the Four Seasons Hotel George V in Paris—and designer of this year's *Orchid Show*—creates transformative floral installations that are destinations in themselves. His glittering celebrity portfolio includes Cher, Dolly, Oprah, and the Kardashians. His floral wizardry has earned him the prestigious *Chevalier de l'ordre des Arts et des Lettres*...as well as more than a million Instagram followers!

Join us for a rare opportunity to hear a master artist explain how he brings his signature designs to life. Q&A and book signing to follow.

Thursday, February 20, 11 am–12 pm | Jeff Leatham
203FDN928 | Ross Hall, NYBG | \$25/\$29

SHOPPING THE NEW YORK FLOWER MARKET

Learn to navigate the bustling New York flower district! Discover where to get the best flowers and hard goods from the pros. Your confirmation letter will include where we will meet in the flower district. Lunch is not included. Dress for the weather.

P Prerequisite: *Fundamentals of Form*

Thursday, 4/30, 9 am–12:30 pm
Rose G. Edinger | Off site | 204FDN400A

Wednesday, 7/8, 9 am–12:30 pm
Rose G. Edinger | Off site | 211FDN400B

Monday, 8/3, 9 am–12:30 pm
Nsombi Woodson | Off site | 211FDN400C

\$95/\$105 *Certificate Requirement*

COLOR THEORY FOR FLORAL DESIGN

Colors—like flowers themselves—evoke feeling and sentiment, and set the mood. Explore the role of color in floral design using a spectrum of flowers. This course gives you a solid grounding in color theory, while highlighting the latest hues and color combinations. \$100 materials fee.

3 Mondays, 3/23–4/6, 6:15–8:55 pm | Jameel Gilbert | Manhattan | 203FDN306C

2 Saturdays, 4/18 & 4/25, 10 am–2:30 pm | Julio Jimenez | NYBG | 204FDN306A

3 Tuesdays, 6/2–6/16, 6:15–8:55 pm | Nsombi Woodson | Manhattan | 204FDN306B

2 Thursdays, 9/17 & 9/24, 10 am–2:30 pm | Rose G. Edinger | NYBG | 211FDN306C

\$195/\$215 *Certificate Requirement*

INTERIOR PLANTSCAPES

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

2 Fridays, 6/19 & 6/26, 10 am–2:30 pm | Chris Raimondi, CLP | NYBG | 204FDN310

\$195/\$215 *Certificate Requirement*

FLOWER ID FROM A TO Z

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

3 Thursdays, 5/7–5/21, 6:15–8:55 pm | Rose G. Edinger | Manhattan | 204FDN308A

2 Mondays, 6/15 & 6/22, 11 am–3:30 pm | Jameel Gilbert | NYBG | 204FDN308B

\$195/\$215 *Certificate Requirement*

EVENT PLANNING FOR THE FLORAL DESIGNER

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

3 Tuesdays, 3/17–3/31, 10 am–2:30 pm | Thomas Cawley | NYBG | 203FDN504B

\$285/\$315 *Certificate Requirement*

MODERN SYMPATHY DESIGNS

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

Wednesday, 3/11, 10 am–4:30 pm | Bessie Mender | NYBG | 203FDN382

\$179/\$195 *Certificate Requirement*

GRAND-SCALE ARRANGEMENTS

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

P Prerequisite: *Wedding Design II*

2 Tuesdays, 4/7 & 4/14, 10 am–2:30 pm | Thomas Cawley | NYBG | 204FDN502

\$225/\$249 *Certificate Requirement*

Master Classes with Susan McLeary

“In an era of sometimes meaningless superlatives, a scroll through Passionflower’s images can leave one feeling genuinely stunned.” —Blooms (Phaidon)



Photo © Amanda Dumouchelle

Artist/designer Susan McLeary of the Michigan-based studio Passionflower is a highly regarded innovator best known for her boundary-pushing living jewelry. Her soulful, seasonally-inspired creations have garnered gold medals from Fusion Flowers International Designer of the Year competition and graced the pages of *Martha Stewart Weddings*, *Florist's Review*, *Flower Magazine*, *SELF*, and *Style Me Pretty*. McLeary's first book, *The Art of Wearable Flowers*, is due out spring 2020.

THE ANATOMY OF A CENTERPIECE

McLeary guides you through the process of crafting artful, natural-styled centerpieces by outlining the nine floral layers she uses in her designs. Using this technique, as well as the ancient concept of the golden ratio, create two dynamic centerpieces bursting with movement and depth.

Tuesday, 6/16, 10:30 am–4 pm | NYBG | 204FDN417

\$370/\$405* *Certificate Elective*



WEDDINGS REDEFINED

Learn to turn wrist corsages, floral crowns, and botanical rings into show-stopping works of art. McLeary will walk you what she's learned from ignoring convention again and again, including how to create multi-use pieces that can be worn as a shoulder corsages, chokers, belts, or sashes.

Wednesday, 6/17, 10:30 am–4 pm
NYBG | 204FDN416

\$370/\$405* *Certificate Elective*

Register for both and receive a discount:
204FDN434 | \$655/\$715*

*Includes a signed copy of her book, *The Art of Wearable Flowers* (Chronicle Books)

Food & Drink

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



©Betsy Jacaruso, *Millhouse*, Watercolor

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

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

Tuesday, 3/10, 6–8 pm
Brian Hockaday | Manhattan | 203CKG210

\$79/\$85

BOTANICAL MIXOLOGY 101

Historical bartenders and modern mixologists have long used herbal and botanical ingredients to add flavor, body, and visual flair to their concoctions. Go beyond the garnish into a world of oleo-saccharums, infusions, simple syrups, and tinctures using plants and ingredients accessible to the urban gardener. You'll learn history, get growing advice, master techniques, and sample a variety of botanical ingredients to broaden your palette of flavors. You'll top off the evening by making your own tincture to take home and perk up your cocktails!

Thursday, 7/9, 6–9 pm
Jim Freeman | Manhattan | 211CKG240B

\$79/\$85

NEW! NATIVE EDIBLE PLANTS

Meet the edible indigenous plants of the Northeast that wild foods author Marie Viljoen uses every day in her Brooklyn kitchen. We'll discuss preparations and recipes using plants that define ways of eating that speak to place, such as Aronia, bayberry, black cherry, milkweed, fiddleheads, juniper, magnolia, prickly ash, ramps, pokeweed, spicebush, and sweetfern. A wild-inspired snack will be served.

Sunday, 4/19, 11 am–2 pm
Marie Viljoen | NYBG | 204CKG225

\$79/\$85

NEW! THE KITCHEN MYCOLOGIST

Knowing a little mycology (the study of fungi) can make you a better mushroom cook. This illustrated talk teaches basic mycology through the lens of your kitchen. It explores the intersection of mycology and the selection, storage, preparation, and nutritional value of mushrooms; the way fungi spoils foods and improves foods; the biologic reason why mushrooms taste differently and why some are more expensive than others; and the impact of endophytic fungi and mycorrhizal networks on food crops.

Saturday, 4/25, 11 am–1 pm
Eugenia Bone | NYBG | 204CKG230

\$59/\$65

**The Wonders of Agave****GROW GOURMET MUSHROOMS INDOORS**

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

Wednesday, 6/3, 6:15–9:15 pm
John Michelotti | Manhattan | 204CKG207A

Sunday, 9/27, 10 am–1 pm
John Michelotti | NYBG | 211CKG207B

\$75/\$85

SEASONAL BERRY JAM

Enjoy a delicious little mess with jam! Trained in preservation techniques at Cornell, Stephen Nocera demonstrates three distinct methods of jamming, using reduced sugar and no additives or pectin. You'll come away with the techniques and recipes you need to keep jamming at home, as well as three delicious jams that will transport you back to summer whenever you reach for a jar.

Saturday, 6/13, 11 am–2 pm
Stephen Nocera | NYBG | 204CKG200A

Sunday, 7/19, 11 am–2 pm
Stephen Nocera | NYBG | 211CKG200B

\$79/\$85

BEEKEEPING BASICS

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

Saturday, 5/2, 10 am–1 pm
Frank Mortimer & Bob Slanzi | NYBG | 204CKG206A

Saturday, 8/1, 10 am–1 pm
Frank Mortimer & Bob Slanzi | NYBG | 211CKG206B

\$59/\$65

**Native Edible Plants: Service Berry Pie****INTRODUCTION TO WINE TASTING**

Taste and enjoy wine in a relaxed garden environment. After sampling and discussing an assortment of white and red wines, you'll have a better grasp of what it means for a wine to be called dry, tannic, fruit forward, or acidic. We will also cover how different grape species, wine-making techniques, and the land itself influence how a specific wine tastes. No wine experience necessary! 21+

Sunday, 5/31, 2–4 pm
Robert Brinkman | NYBG | 204CKG235A

Sunday, 8/16, 2–4 pm
Robert Brinkman | NYBG | 211CKG235B

\$45/\$49

NEW! NATURAL WINES

Natural wines are a booming industry—with new environmentally conscious winemakers cropping up and natural wine fairs attracting thousands of interested consumers. In this class, we'll rediscover wine in its true nature—made in an eco-friendly and healthy way. Through tastings and presentations, you'll be fully equipped to discover, choose, and appreciate the best of natural wines. 21+

Saturday, 7/18, 11 am–1 pm
Tremeur Arbor | NYBG | 211CKG217

\$85/\$95

CANNING PEACHES

"Put up" your peaches using time-honored canning techniques for three preparations that will extend the bounty of your favorite stone fruits long after summer is gone. Create a compote to top your summer desserts; prepare for fall with warming spices; or add syrup to bring sunshine to your winter days. We'll discuss the basics of canning and food safety while you prepare delicious treats to take home.

Saturday, 7/25, 11 am–2 pm
Stephen Nocera | NYBG | 211CKG231

\$79/\$85

**Preserving Mushrooms****NEW! PRESERVING MUSHROOMS**

When the Eastern Woodlands erupt with marvelous edible mushrooms, the picking is great. But too often, the harvest succumbs to rot in your kitchen. In this illustrated talk, master canner and author of *Mycophilia* Eugenia Bone explains the best ways to dry, freeze, pressure can, preserve in oil, and pickle both wild and cultivated mushrooms so you can savor your fungi in any season!

Saturday, 8/15, 11 am–1 pm
Eugenia Bone | NYBG | 211CKG246

\$59/\$65

PICKLES, THREE WAYS

Return to great-grandma's tried-and-true process to make pickled cucumbers in three styles—spicy dill, sweet bread-and-butter, and zesty relish. Designed for beginners, this class covers the basics—from recipes to food prep to sterilizing. You'll pick up tips and tricks for pickling all kinds of produce and head home with recipes and jars of tasty pickled goodies!

Saturday, 8/22, 11 am–3 pm
Stephen Nocera | NYBG | 211CKG221A

Saturday, 9/26, 11 am–3 pm
Stephen Nocera | NYBG | 211CKG221B

\$85/\$95

THE TOTAL TOMATO

Wondering what to do with your bounty of tomatoes? Preserve them, of course! We will show you the best ways to process and hot pack your harvest, with a simple method borrowed from industrial canning. We'll make a chili tomato salsa, marinara sauce, and crushed tomatoes for the pantry, all of which can be safely preserved for future use. When you're dining on fresh tomatoes come December, you'll be thankful you came!

Thursday, 9/17, 11 am–3 pm
Stephen Nocera | NYBG | 211CKG226

\$85/\$95

Gardening



©Janice Kirsh, *Fragrant Rose Garden*, Oil

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

THE CERTIFICATE PROGRAM

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

Upon completion of the program, students will:

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



“The Gardening Certificate Program at NYBG gave me a solid foundation in the field of professional gardening and plant cultivation, which I am passionate about! The knowledge I received allowed me to tackle large-scale projects where I was newly hired as an Outdoor Education Center Director. Thank you NYBG for your long-standing excellent reputation and highly qualified professional faculty willing to go above and beyond to help students learn topics and techniques most relevant to industry today!”

— NANCY GALDI, 2018 Graduate

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



SUMMER INTENSIVE PROGRAM

July 6–July 24

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

THE CLASSES

Fundamentals of Gardening | Soil Science for Gardeners | Insect Identification and Management Plants for Landscaping | Container Gardening | Fundamentals of Garden Design Gardening with Native Plants

Monday–Friday, July 6–24 | 9 am–4 pm | NYBG | 211GAR950

TUITION AND REFUNDS

\$1,925 (Member) / \$2,125 (Non-Member)

A \$635 non-refundable deposit is due at registration.

An optional payment schedule is available if requested. \$635 is due at registration, 2nd payment due May 18, final payment June 15. No refunds after Monday, June 15, 2020.

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



CERTIFICATE REQUIREMENTS

Course	Code	Hours	Page
Fundamentals of Gardening	GAR 301	12	29
Introduction to Plant Science	HRT 300	16	35
Soil Science for Gardeners	GAR 302	12	29
Gardening with Native Plants	GAR 315	9	29
Insect Identification and Management	GAR 320	12	29
Disease Identification and Management	GAR 324	12	29
Fundamentals of Garden Design	GAR 342	P 12	29
Vegetable Gardening	GAR 431	P 12	29
Complete Garden Care and Maintenance	GAR 440	P 18	29
Pruning Principles and Practices**	HRT 321	P 15	—
Plants for Landscaping	HRT 358	16	35
Plant Propagation I: Basic Principles	HRT 411	P 18	37
<i>Elective GAR or HRT courses</i>		23	
TOTAL REQUIRED HOURS		187	

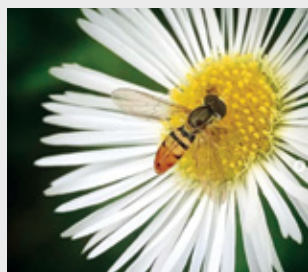
ELECTIVES

Course	Code	Hours	Page
Botanical Latin	GAR 360	10	29
Organic Gardening Basics	GAR 308	8	28
Rooftop Gardening	GAR 328	6	28
Super Small Space Veggie Gardening	GAR 330	9	28
Rose Care and Pruning	GAR 394	3	26
Container Gardening	GAR 327	8	27
Landscape for Curb Appeal	GAR 326	3	27
Basics of Perennial Maintenance	GAR 323	7	28
Landscape Design Tips	LAN 169	4	27

**Courses offered in the Fall–Winter catalog.

P Courses with a prerequisite before you can register.

For professional organizations, see p. 55.



Earth Day 2020: In Praise of Pollinators

Join Heather Holm, Anand Persad, Ph.D., and Annie White, Ph.D., to find out what you can do to protect pollinators, support native ecosystems, and prevent the loss of biodiversity in our region.

See page 2 for details.

OUTDOOR PLANTS

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.

Saturday, 3/21, 10:30 am–3 pm
Michele Glauber | NYBG | 203GAR173D

Saturday, 4/18, 10:30 am–3 pm
Sheri Forster | Manhattan | 204GAR173A

\$79/\$85

VERTICAL GARDENING: VINES & CLIMBERS

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

Thursday, 3/26, 6–9 pm
Doris Loechle | Manhattan | 203GAR146

\$55/\$59

NEW! ROSE CARE AND PRUNING

Tending to roses is an art, especially given how many types there are—from shrubs to hybrid teas to ramblers. Proper pruning can encourage bloom production and control plant disease. This informative session combines classroom demonstrations, student pruning of potted plants, and illustrations of the decorative techniques used in gardens such as Sissinghurst. We'll also cover the best soil types, when to deadhead, how to rejuvenate tired plants, and more!

Sunday, 3/29, 12–3:30 pm
Ann Perkowski | NYBG | 203GAR394

\$85/\$95 *Certificate Elective*

WILDFLOWER GARDENING TO ATTRACT POLLINATORS

Discover how to create your very own successful wildflower garden, whether you have a small urban space or a large suburban yard. We'll discuss which native species thrive in our area and which types grow best together. You'll walk away with all the information you need to plant and maintain a beautiful wildflower garden filled with color and life.

Friday, 5/15, 10 am–2:30 pm
Kim Eierman | NYBG | 204GAR110

\$85/\$95

NEW! PLANT PROPAGATION FOR THE HOME GARDENER

Discover how to reproduce the plants you love! Learn the best ways to create cuttings and make divisions for propagating different species. We'll discuss what rooting material to use and how to care for your new plants as they grow. Practice repotting and take home a freshly planted cutting or two.

Monday, 4/13, 6–8:30 pm
Nick Gershberg | Manhattan | 204GAR288A

Tuesday, 8/4, 6–8:30 pm
Nick Gershberg | Manhattan | 211GAR288B

\$75/\$79

SHADY CHARACTERS

Don't let a lack of sun cast a shadow on your garden! Find out which plants thrive in shady conditions while bringing charm and color. You'll see how to expand your palette from reliable standards such as hosta and plant for architectural and textural interest across the spectrum of trees, vines, shrubs, and perennials. Discover ways to improve issues that shade presents, so that you can cherish your shade as the calming treasure it is.

Saturday, 6/6, 10:30 am–1:30 pm
Lorraine Ballato | NYBG | 204GAR142

\$65/\$69

ALL ABOUT BULBS

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

Saturday, 9/26, 10 am–1 pm
Ryan McCallister | NYBG | 211GAR220

\$75/\$85

BASIC LANDSCAPE DESIGN FOR GARDENERS**INTRO TO LANDSCAPE DESIGN**

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

3 Thursdays, 3/5–3/19, 10 am–1 pm
Sheri Forster | New Canaan Nature Center
203LAN100D

3 Thursdays, 6/4–6/18, 10 am–1 pm
Daryl Beyers | NYBG | 204LAN100A

3 Thursdays, 7/23–8/6, 6:15–9:15 pm
Daryl Beyers | Manhattan | 211LAN100B

3 Mondays, 9/14–10/5 (no class 9/28), 10 am–1 pm
Daryl Beyers | NYBG | 211LAN100C

3 Tuesdays, 9/15–9/29, 6:15–9:15 pm
Kimberly Tryba | Manhattan | 211LAN100D

\$185/\$205

SUBURBAN LANDSCAPE DESIGN

Innovative design can transform an under-used area into a vibrant space. Discover creative ways to enhance an entrance, make over a narrow side yard, and screen undesirable views. We'll cover reliable trees and shrubs, new native plantings, and the use of borrowed views, fencing, and terraces.

Friday, 3/27, 10 am–1 pm
Jan Johnsen | NYBG | 203LAN160

\$59/\$65

CONTAINER GARDENING

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

2 Sundays, 3/15 & 3/22, 10 am–2:30 pm
Daryl Beyers | NYBG | 203GAR327B

2 Sundays, 4/19 & 4/26, 10 am–2:30 pm
Renee Marsh | NYBG | 204GAR327A

2 Saturdays, 7/18 & 7/25, 10 am–2:30 pm
Daryl Beyers | Manhattan | 211GAR327B

\$229/\$249 *Certificate Elective*

LANDSCAPE FOR CURB APPEAL

Make a great first impression by creating a welcoming entry garden for your home. Learn how to design a stylish front garden. Review examples that work for different architectural styles, and develop plant lists that fit the specific needs of every type of front yard.

Saturday, 4/18, 10:30 am–1:30 pm
Daryl Beyers | NYBG | 204GAR326

\$55/\$59 *Certificate Elective*

LANDSCAPE DESIGN TIPS: LEARNING FROM BEFORE AND AFTER

Using illustrative before and after photos from her long career, landscape designer Jan Johnsen shares 25 specific tips to enhance your garden, including Lure of the Sheltered Corner, The Principle of Three Depths, and Raising the Canopy.

Saturday, 5/9, 10 am–2:30 pm
Jan Johnsen | NYBG | 204LAN169

\$119/\$129 *Certificate Elective*

NEW! GARDENTOPIA

Garden lovers revel in being in outdoor spaces where the feeling of wellbeing descends. So how can you transform your ho-hum backyard into a "gardentopia"? Jan Johnsen shares intriguing design ideas based on 45 years in the landscape design/build profession such as The Principle of Three Depths, The Power of the Portal, and Hide and Reveal among many others. Her fun, hands-on approach will have you saying, "I can do that!"

Wednesday, 5/20, 10 am–12 pm
Jan Johnsen | NYBG | 204GAR297

\$59/\$65

INDOOR PLANTS**BUILDING A GREEN WALL**

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

Saturday, 3/7, 10 am–2 pm
Chris Raimondi | Manhattan | 203LAN120C

Friday, 3/13, 10 am–2 pm
Chris Raimondi | NYBG | 203LAN120D

\$125/\$139

INDOOR TROPICALS

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

Saturday, 3/21, 10 am–1 pm
Colin Wright | Manhattan | 203GAR289C

Saturday, 5/30, 10 am–1 pm
Colin Wright | Manhattan | 204GAR289A

\$95/\$105

BONSAI FOR BEGINNERS WORKSHOP

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

Sunday, 5/17, 10 am–3:30 pm
John Capobianco | NYBG | 204GAR912A

Saturday, 6/27, 10 am–3:30 pm
John Capobianco | Manhattan | 204GAR912B

\$195/\$215



Illustration: Bonsai, *Ficus retusa* (detail), ©Anna Suprunenko

GARDEN MAINTENANCE

PRUNING: HOW, WHEN, AND WHERE

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

Sunday, 3/1, 10 am–3 pm
John Beirne | NYBG | 203GAR236C

\$119/\$129

NEW! ORGANIC GARDENING BASICS

Explore the philosophy and history of the organic method, its biological principles, and the practical techniques used to implement it. This course covers a broad range of topics including how to build and maintain soil health, encourage biodiversity, use resources such as water and energy responsibly, and avoid using chemicals. Restore, maintain, and enhance ecological harmony in your garden. Learn how to grow healthy plants from ornamentals to vegetables to ground cover—what to do, what to avoid, and why!

3 Wednesdays, 3/4–3/25 (no class 3/18),
11 am–1:40 pm
Renee Marsh | NYBG | 203GAR308

\$229/\$255 *Certificate Elective*

BASICS OF PERENNIAL MAINTENANCE

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

Saturday, 4/4, 9 am–4 pm
Michele Glauber | NYBG | 204GAR323

\$139/\$155 *Certificate Elective*



Get Ready for Spring Vegetable Gardening!

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

GET MORE FROM YOUR 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!

Tuesday, 3/3, 10:30 am–1:30 pm
Nick Storrs | NYBG | 203GAR134

\$55/\$59

INTENSIVE GROWING TECHNIQUES FOR HOMEGROWN EDIBLES

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

Saturday, 3/14, 12–3 pm
Colin Wright | Manhattan | 203GAR116B

\$59/\$65

GROWING A CULINARY HERB GARDEN

Spice up your garden with your own home-grown culinary herbs. Get started right by learning how to grow for flavor, when to harvest at peak, and how to preserve and serve up your bounty in tasty, unexpected ways.

Wednesday, 4/15, 2–5 pm
TBA | NYBG | 204GAR329

\$55/\$59 *Certificate Elective*

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, 4/22 & 4/29, 6:15–9:15 pm
Annie Novak | Manhattan | 204GAR328

\$115/\$125 *Certificate Elective*

MASTERING THE ART OF TOMATO GARDENING

Eagle Street Farm founder Annie Novak covers the tips and tricks of maintaining a healthy, organic, tomato garden in raised beds on your rooftop, in containers on your balcony, or in your backyard garden. In April, get the knowledge you need to decide if heirlooms or hybrids are right for you. Then, learn to start plants from seed, as well as how to transplant, graft, and fertilize properly. In September, learn to maintain your growing garden, by discovering the best ways to create trellises, make a fertilizing regimen, manage pests and diseases, and select and store your most successful plants' seeds. Sign up for one class or take both. Beginners and pros welcome!

Thursday, 4/23, 6–9 pm
Annie Novak | Manhattan | 204GAR143A

Wednesday, 9/23, 6–9 pm
Annie Novak | Manhattan | 211GAR143B

\$55/\$59



SUPER SMALL SPACE VEGGIE GARDENING

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

3 Tuesdays, 4/28–5/12, 6–9 pm
Annie Novak | Manhattan | 204GAR330

\$169/\$185 *Certificate Elective*



CERTIFICATE CLASSES

Open to Non-Certificate students

FUNDAMENTALS OF GARDENING

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.

Monday–Thursday, 3/2–3/5, 6–9 pm
Manny Grossman | Manhattan | 203GAR301E

4 Saturdays, 3/7–3/28, 10 am–1 pm
Michael Ruggiero | NYBG | 203GAR301F

4 Tuesdays, 3/31–4/21, 6–9 pm
Manny Grossman | Manhattan | 204GAR301A

4 Tuesdays, 4/14–5/5, 10 am–1 pm
Michael Ruggiero | New Canaan Nature Center
204GAR301B

4 Thursdays, 5/7–5/28, 10 am–1 pm
Daryl Beyers | NYBG | 204GAR301C

3 Saturdays, 6/6–6/20, 10:30 am–3 pm
Renee Marsh | NYBG | 204GAR301D

4 Tuesdays, 7/14–8/4, 6–9 pm
Manny Grossman | Manhattan | 211GAR301E

4 Mondays, 9/14–10/19 (no class 9/28 & 10/12),
6–9 pm
Manny Grossman | Manhattan | 211GAR301F

4 Tuesdays, 9/15–10/6, 10 am–1 pm
Daryl Beyers | NYBG | 211GAR301G

\$295/\$325 *Certificate Requirement*

BOTANICAL LATIN


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

5 Mondays, 3/9–4/6, 6:15–8:15 pm
Jennifer Bakshi | Manhattan | 203GAR360B

5 Fridays, 9/25–10/23, 10:30 am–12:30 pm
Jennifer Bakshi | NYBG | 211GAR360A

\$255/\$279 *Certificate Elective*

FUNDAMENTALS OF GARDEN DESIGN

Explore the basic principles of Garden Design as you build your understanding of how to use trees, shrubs, perennials, vines, bulbs and annuals in creative combinations based on your design's purpose, site and style. Learn how design elements like scale, form, texture and color contribute to a successful garden design as you create a master garden plan from start to finish.  Prerequisite: *Plants for Landscaping*

4 Mondays, 5/4–6/1 (no class 5/25), 6:15–9:15 pm
Daryl Beyers | Manhattan | 204GAR342

\$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 Wednesdays, 3/11–4/1, 6–9 pm
Manny Grossman | Manhattan | 203GAR302B

4 Thursdays, 4/2–4/30 (no class 4/9), 10 am–1 pm
Manny Grossman | NYBG | 204GAR302A

4 Wednesdays, 8/5–8/26, 6–9 pm
Manny Grossman | Manhattan | 211GAR302B

\$285/\$315 *Certificate Requirement*

GARDENING WITH NATIVE PLANTS

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

3 Saturdays, 3/14–3/28, 11 am–2 pm
TBA | Manhattan | 203GAR315


3 Tuesdays, 5/12–5/26, 6:15–9:15 pm
Brad Roeller | NYBG | 204GAR315A

3 Saturdays, 8/1–8/15, 10 am–1 pm
Brad Roeller | NYBG | 211GAR315B

\$215/\$239 *Certificate Requirement*

VEGETABLE GARDENING

Examine pre-planting procedures, from soil preparation to crop rotation planning. Study the timing and techniques of planting, pest management, and harvest and post-harvest handling. Survey heirloom varieties, new cultivars, and classic selections.

 Prerequisite: *Fundamentals of Gardening*

4 Wednesdays, 4/29–5/20, 10 am–1 pm
Stephen Nocera | NYBG | 204GAR431A

4 Thursdays, 8/6–8/27, 10 am–1 pm
Stephen Nocera | NYBG | 211GAR431B

\$265/\$289 *Certificate Requirement*


INSECT IDENTIFICATION AND MANAGEMENT

Pest identification is key to maintaining a healthy, beautiful garden. Learn to identify which insects are pests and which are beneficial to your home garden. Learn the most common orders of insects and the damage they can cause, as well as how to implement simple, non-toxic methods of preventing major insect infestations. Please bring samples of insects and damaged plants to class.

4 Wednesdays, 5/27–6/17, 5:15–8:15 pm
Don Gabel | NYBG | 204GAR320

\$285/\$319 *Certificate Requirement*

COMPLETE GARDEN CARE AND MAINTENANCE

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

6 Thursdays, 5/28–7/16 (no class 6/18 & 7/2),
5:30–8:30 pm

Mobee Weinstein | NYBG | 204GAR440

\$445/\$489 *Certificate Requirement*

DISEASE IDENTIFICATION AND MANAGEMENT

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

4 Tuesdays, 8/18–9/15 (no class 9/1), 5:15–8:15 pm
Don Gabel | NYBG | 211GAR324

\$285/\$319 *Certificate Requirement*



Garden Varieties: Summer All-Stars

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

DAUNTLESS DAHLIAS

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

Sunday, 3/29, 10 am–1 pm
Frances Palmer | NYBG | 203GAR243

\$55/\$59

HYDRANGEA PRUNING: WHAT STAYS, WHAT GOES, AND WHEN

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

Saturday, 4/25, 10 am–1 pm
Lorraine Ballato | NYBG | 204GAR296

\$55/\$59



LUSH PEONIES

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

Saturday, 5/2, 10 am–1 pm
Daniel Furman | NYBG | 204GAR242

\$55/\$59

All-Day Saturday Gardening Workshops—



NYBG Native Plant Saturday

MARCH 28 | NYBG

10 am–12 pm

NEW! NATIVE PLANT SELECTION

Learn what makes a plant native, how to choose the best species for your garden, where to find them, and how to grow them successfully. We'll also discuss natives you can plant to support and encourage pollinators in your landscape.

Kim Eierman | NYBG | 203GAR202B

12:45–2:45 pm

PROPAGATING NATIVE PLANTS

Learn how to collect and sow the seeds of native plants from your local landscape or from commercial sources, and how to make more plants from your own collection through vegetative propagation techniques such as division, cuttings, and layering.

Colin Wright | NYBG | 203GAR202C

3–5 pm

DESIGNING WITH NATIVE PLANTS

Learn the fundamentals of how native plants can be successfully incorporated into your garden plans to create sustainable garden designs filled with the beauty and diversity you desire.

Renee Marsh | NYBG | 203GAR202D

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

All Three Sections: \$99/\$109
NYBG | 203GAR202A



Vegetable Gardening

APRIL 25 | Watson Education Bldg., NYBG
MAY 30 | New Canaan Nature Center

10 am–12 pm

VEGETABLE GARDENING BASICS

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

Nick Storrs | April 25 | NYBG | 204GAR201B

Daryl Beyers | May 30 | NCNC | 204GAR201F

12:45–2:45 pm

SEED STARTING PRIMER

Seed starting is a fun way to expand your garden's potential. This class covers the basics, including choosing what seeds to start and the proper location, lighting, containers, watering techniques, and soil mixes to ensure your success. Receive a packet of seeds to grow at home.

Nick Storrs | April 25 | NYBG | 204GAR201C

Manny Grossman | May 30 | NCNC | 204GAR201G

3–5 pm

PROTECT YOUR PLANTS FROM PESTS

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

Renee Marsh | April 25 | NYBG | 204GAR201D

Renee Marsh | May 30 | NCNC | 204GAR201H

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

All Three Sections: \$99/\$109
NYBG | 204GAR201A
NCNC | 204GAR201E



All About Containers

MAY 9 | Watson Education Building, NYBG

MAY 16 | Midtown Education Center

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 | May 9 | NYBG | 204GAR200B

Daryl Beyers | May 16 | Manhattan | 204GAR200F

12:45–2:45 pm

VEGGIES AND HERBS FOR CONTAINERS

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

Nick Gershberg | May 9 | NYBG | 204GAR200C

Renee Marsh | May 16 | Manhattan | 204GAR200G

2:45–4:45 pm

DESIGNING WITH CONTAINERS

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

Richard Rosiello | May 9 | NYBG | 204GAR200D

Richard Rosiello | May 16 | Manhattan | 204GAR200H

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

All Three Sections: \$99/\$109

NYBG | 204GAR200A

Manhattan | 204GAR200E

Illustration: Butterfly Orchid, *Psychopsis* 'Mariposa' (detail), ©Natalia Alatoroteseva

Terrace Gardening Saturday

JUNE 13 | Midtown Education Center

10 am–12 pm

GREAT PLANTS FOR TERRACE GARDENS

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

Colin Wright | Manhattan | 204GAR226B

12:45–2:45 pm

POTTING MIXES AND PLANT NOURISHMENT

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

Daryl Beyers | Manhattan | 204GAR226C

2:45–4:45 pm

DISEASE AND PEST CONTROL IN POTS

Pests and diseases can pop up anywhere—even on a 20th-floor balcony! Learn the classic signs of infections and infestations found in urban pots and planters. Get tips on how to properly clean and disinfect your containers, and other measures to control and prevent problems in your terrace garden.

Christopher Satch | Manhattan | 204GAR226D

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

All Three Sections:

Manhattan | 204GAR226A | \$99/\$109

The Orchid Show: Jeff Leatham's Kaleidoscope

FEBRUARY 15–APRIL 19, 2020

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

PHALAENOPSIS CARE

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

Saturday, 3/7, 11 am–1 pm

Frank Guida | NYBG | 203GAR213A

\$65/\$75

ORCHIDS: DIVIDE, REPOT, REJUVENATE

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

Saturday, 3/14, 10 am–12:30 pm

Frank Guida | NYBG | 203GAR213B

\$65/\$75

DESKTOP ORCHIDS

Get pro tips on how to care for orchids in less than optimal environments. Barbara Schmidt, award-winning exhibitor at the Philadelphia Flower Show and author of *Orchid Care: For the Beginner*, will walk you through what orchid genus will fare best in your indoor environment, as well as how to ensure your orchids have what they need to grow and bloom. Optional: BYOO so Barbara can help you identify and/or troubleshoot your orchid.

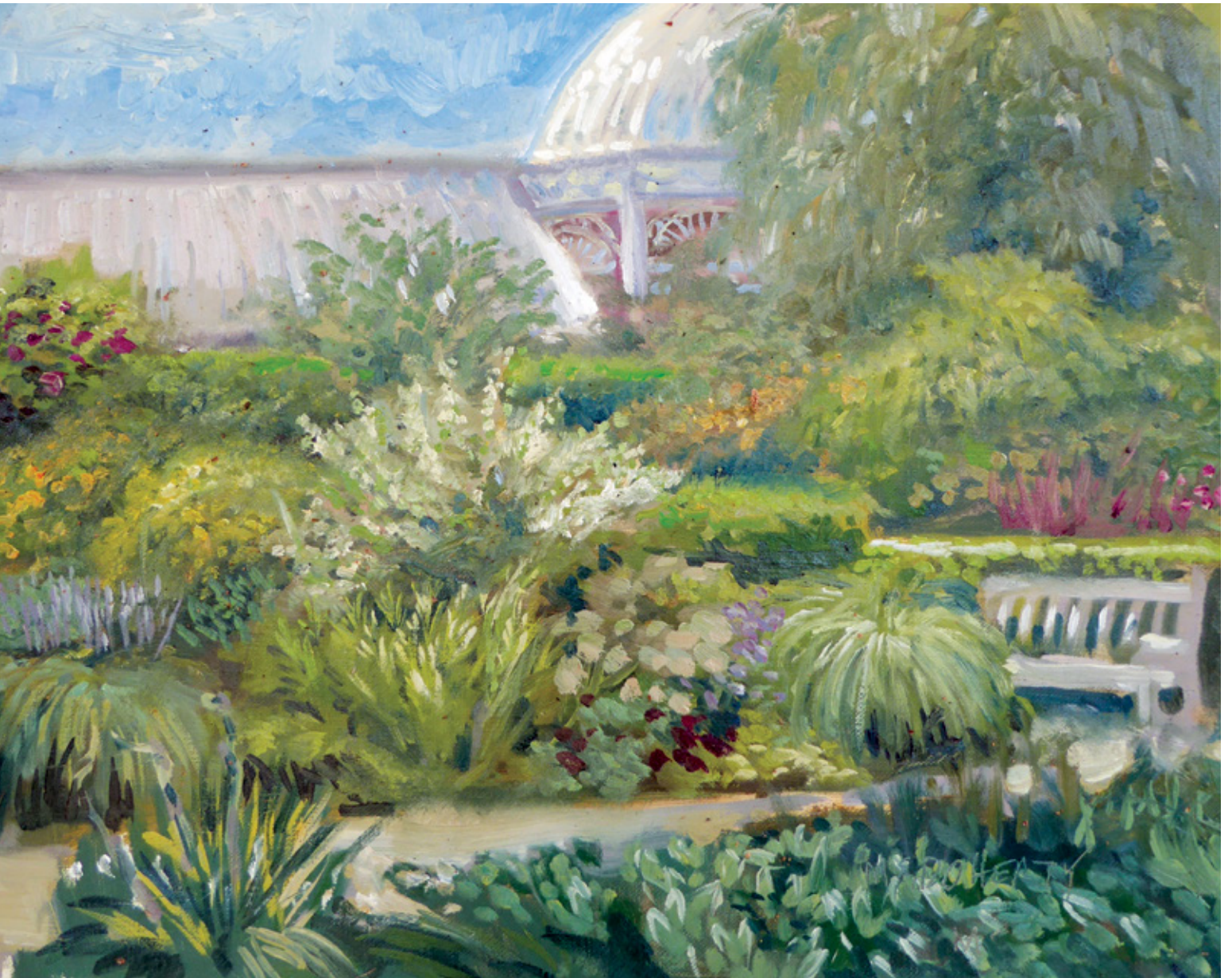
Saturday, 4/4, 11 am–1 pm

Barbara Schmidt | NYBG | 204GAR213C

\$75/\$85



Horticulture



©Stephen Doherty, *Perennial Garden*, Oil

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

THE CERTIFICATE PROGRAM

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

TRACK 1: PLANT PRODUCTION

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

TRACK 2: SUSTAINABLE LANDSCAPE MANAGEMENT

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

TRACK 3: ARBORICULTURE

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

TRACK 4: SUSTAINABLE GARDEN DESIGN

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

CERTIFICATE REQUIREMENTS

Course	Code	Hours*	Page
TRACK 1			
Plant Production			
Introduction to Plant Science	HRT 300	16	35
Soil Science I: Physical Properties	HRT 301	18	35
Soil Science II: Chemistry and Nutrition	HRT 302	P 18	35
Horticultural Techniques: Greenhouse Practices**	HRT 312	P 15	—
Insect Pests of Landscape Plants	HRT 381	P 18	36
Plant Propagation I: Basic Principles	HRT 411	P 18	37
Plant Propagation II: Applications**	HRT 412	P 16	—
Disease Identification & Management	HRT 481	P 18	36
Nursery and Greenhouse Management**	HRT 491	P 24	—
TOTAL REQUIRED HOURS		161	

*Course hours do not include exam hours

**Courses offered in the Fall–Winter Catalog

P Courses with a prerequisite before you can register

For professional horticultural organizations, see p. 55.



"I was drawn to NYBG's Horticulture Program because there are things that you can only know when your hands and your back and your feet and your skin know it. This entire 250 acres was my classroom. This program is fast but it's not diluted. It's concentrated and full of nuance and precision. I studied rigorous, respected theory, history, and biology. I'm now a student of plants, which are really much wiser and more sophisticated than us. I'm in a better position to help conserve, document, and celebrate the links between biological and cultural diversity wherever I land professionally. And I'm certainly a better human being."

— MAKALÉ FABER CULLEN, 2019 Graduate



**GET NYBG
CERTIFIED**

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

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

CERTIFICATE REQUIREMENTS

Course	Code	Hours*	Page
TRACK 2			
Sustainable Landscape Management			
Introduction to Plant Science	HRT 300	16	35
Soil Science I: Physical Properties	HRT 301	18	35
Soil Science II: Chemistry and Nutrition	HRT 302 P	18	35
Horticultural Techniques: Landscape Gardening	HRT 311 P	18	36
Pruning Principles and Practices**	HRT 321 P	15	—
Basic Design and Installation of Irrigation Systems**	HRT 323	12	—
Starting a Small Landscaping Business**	HRT 349	14	—
Insect Pests of Landscape Plants	HRT 381 P	18	36
Tree Management**	HRT 422 P	14	—
Landscape Management**	HRT 443 P	24	—
Disease Identification & Management	HRT 481 P	18	36
Weed Identification & Management**	HRT 482 P	12	—
Mathematics for Horticulturists	HRT 356	6	36
TOTAL REQUIRED HOURS		209	
TRACK 3			
Arboriculture			
Introduction to Plant Science	HRT 300	16	35
Soil Science I: Physical Properties	HRT 301	18	35
Soil Science II: Chemistry and Nutrition	HRT 302 P	18	35
Tree Climbing for Arborists	HRT 304	15	37
Chainsaws: Use, Safety, and Maintenance**	HRT 308	6	—
Pruning Principles and Practices**	HRT 321 P	15	—
Landscape Plants: Fall Trees and Shrubs	HRT 331 P	12	36
Landscape Plants: Conifers**	HRT 333 P	12	—
Landscape Plants: Spring Trees and Shrubs	HRT 334 P	12	35
Insect Pests of Landscape Plants	HRT 381 P	18	36
Tree Management**	HRT 422 P	14	—
Urban Tree Care	HRT 426 P	12	37
Winter Tree Identification**	HRT 440 P	8	—
Disease Identification & Management	HRT 481 P	18	36
TOTAL REQUIRED HOURS		194	
TRACK 4			
Sustainable Garden Design			
Introduction to Plant Science	HRT 300	16	35
Soil Science I: Physical Properties	HRT 301	18	35
Landscape Plants: Broadleaved Evergreens**	HRT 332 P	9	—
Landscape Plants: Spring Trees and Shrubs	HRT 334 P	12	35
Landscape Plants: Spring Perennials	HRT 336 P	9	36
Landscape Plants: Late Season Perennials & Grasses	HRT 338 P	12	36
Landscape Plants: Annuals	HRT 341 P	8	36
Landscape Plants: Bulbs	HRT 342 P	12	35
Annual and Perennial Garden Maintenance**	HRT 344 P	8	—
Plants for Landscaping	HRT 358	16	35
Tropical Plants	HRT 361 P	14	36
Sustainable Garden Design	HRT 551 P	20	36
Landscape Design History	LAN 301	24	44
Graphics I: Hand Rendering	LAN 311	24	45
TOTAL REQUIRED HOURS		202	

*Course hours do not include exam hours

**Courses offered in the Fall–Winter Catalog

P Courses with a prerequisite before you can register
For professional horticultural organizations, see p. 55.

What's Trending in Horticulture

NEW! GRAFTING

Artist Sam Van Aken takes grafting to a whole new level. His famed Tree of 40 Fruit contains multiple varieties of peaches, plums, apricots, cherries and apples that blossom and produce fruit sequentially. In this hands-on workshop, explore the basics of grafting and hear how old and new grafting technologies allow Van Aken to create public art that also serves as environmental preservation.

Friday, 3/20, 10 am–1 pm | Sam Van Aken | NYBG | 203HRT174S

Sunday, 4/5, 9 am–12 pm | Sam Van Aken | NYBG | 204HRT174

\$95/\$105

NEW! LARGE-SCALE INDOOR PLANT CARE

The need for skilled indoor plant techs is growing as more and more companies add living plants to their décor. NYBG greenhouse gardener Anna Ellingboe will teach you how to water, groom, repot, and manage indoor plants. Get the inside scoop on species that can tolerate the widely variable light and temperatures. You'll visit a bustling Midtown furniture showroom with Brooklyn Plant Studio owner Tara Douglass who will walk you through how she installed and maintains 100+ plants there.

4 Saturdays, 5/30–6/20, 10 am–1 pm | Anna Ellingboe & Tara Douglass
NYBG | 204HRT166

\$195/\$215

GROWING CANNABIS

Mass production methods for growing cannabis differ from those used by boutique or "craft" growers. Learn best practices for growing in a greenhouse or outdoors, and examine the pros and cons of using different hydroponics systems. Discover natural ways to control pests and keep your plants healthy and get a serious overview of the legal, financial, and public health obligations associated with growing cannabis.

3 Sundays, 6/14–6/28, 10 am–2 pm | Matt DeBacco | NYBG | 204HRT156

\$195/\$215

PLANT COMMUNITIES WORKSHOP

Fundamentally change the way you view natural landscapes by learning about the complex factors that inform which plants grow in what combinations. Understanding how and why these plant communities form will help you design beautiful landscapes that are more resilient, diverse, and visually harmonious.

2 Fridays, 7/17 & 7/24, 10 am–1 pm | Jessica Arcate-Schuler
NYBG | 211HRT140A

2 Saturdays, 8/22 & 8/29, 10 am–1 pm | Ethan Dropkin
Manhattan | 211HRT140B

\$169/\$185

INTRODUCTION TO HYDROPONICS

Explore how to grow plants without soil using hydroponics, which promotes fast growth and requires less water and space than conventional gardens. You'll learn what systems work best, which plants to choose, and how to make sure they get proper nutrition. While we will focus primarily on home-scale systems, the wider applications of hydroponics will also be discussed.

5 Thursdays, 7/30–8/27, 6:15–8:15 pm | Maya Kutz & Kate Lodvikov
NYBG | 211HRT141

\$195/\$215

CUT FLOWER FARMING

Join the cut flower farming revolution! Discover the basics of how to design, plant, grow, and harvest a cutting garden that will be productive throughout the seasons. You'll get hands-on practice starting seeds to ensure you always have something fresh to cut. We will also cover traditional and unexpected annual and perennial cut flower species and varieties that grow well locally.

2 Sundays, 9/13 & 9/27, 11 am–12:40 pm | Anne Marie Breyer
NYBG | 211HRT142

\$135/\$149



CERTIFICATE CLASSES

These classes are also open to 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 Wednesdays, 3/25–5/6, 10 am–12:40 pm
Manny Grossman | NYBG | 203HRT300A

7 Sundays, 4/5–6/14 (no class 4/12, 5/10, 5/24, & 6/7), 10 am–12:40 pm
Regina Alvarez | NYBG | 204HRT300B

7 Saturdays, 4/18–6/6 (no class 5/23), 10 am–12:40 pm
Leslie Day | Manhattan | 204HRT300C

3 Mondays and 4 Thursdays, 5/4–5/28 (no class 5/25), 6–8:40 pm
Manny Grossman | Manhattan | 204HRT300D

4 Tuesdays and 3 Fridays, 6/2–6/23, 10 am–12:40 pm
Manny Grossman | NYBG | 204HRT300E

4 Mondays and 3 Thursdays, 7/27–8/17, 6–8:40 pm
Manny Grossman | Manhattan | 211HRT300F

7 Saturdays, 9/12–11/7 (no class 9/19 & 10/10), 10 am–12:40 pm
Christopher Satch | Manhattan | 211HRT300G

7 Thursdays, 9/17–10/29, 10:30 am–1:10 pm
Anya Paltseva, Ph.D. | NYBG | 211HRT300H

\$395/\$435

SOIL SCIENCE I: PHYSICAL PROPERTIES

ALL TRACKS

Soil is a dynamic, living organism and the very foundation of sustainable horticulture and agriculture. This course focuses on the texture, structure, density, and color of different soils and the dynamic relationship that exists among soil, water, and plants. Through lectures and labs using microscopes, learn irrigation and drainage techniques and explore how soil, organic matter, and microbiology relate to plant health and soil conservation.

7 Tuesdays, 3/24–5/5, 10:30 am–1:30 pm
Anya Paltseva, Ph.D. | NYBG | 203HRT301E

7 Wednesdays, 6/10–7/22, 6–9 pm
Manny Grossman | Manhattan | 204HRT301A

7 Thursdays, 6/11–7/30 (no class 7/2), 10 am–1 pm
Manny Grossman | NYBG | 204HRT301B

7 Thursdays, 9/17–10/29, 2–5 pm
Anya Paltseva, Ph.D. | NYBG | 211HRT301C

\$455/\$495

SOIL SCIENCE II: CHEMISTRY AND NUTRITION

TRACKS 1, 2, & 3

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

P Prerequisite: *Soil Science I*

7 Saturdays, 5/9–6/27 (no class 5/23), 10:30 am–1:30 pm

Anya Paltseva, Ph.D. | NYBG | 204HRT302

\$395/\$445

LANDSCAPE PLANTS: BULBS

TRACK 4

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

7 Wednesdays, 3/11–4/22, 4–6 pm
Marta McDowell | NYBG | 203HRT342A

7 Thursdays, 3/12–4/30 (no class 4/16), 4:30–6:30 pm
Michael Hagen | NYBG | 203HRT342S

\$295/\$325

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 Saturdays, 3/28–5/9 (no class 4/11), 10:30 am–1:10 pm
Valerie D'Antonio | NYBG | 203HRT358D

6 Tuesdays, 5/12–6/16, 10 am–12:40 pm
Michael Ruggiero | New Canaan Nature Center | 204HRT358A

5 Saturdays, 5/30–6/27, 10 am–1:15 pm
Vincent Simeone | NYBG | 204HRT358B

6 Saturdays, 9/26–11/7 (no class 10/10), 10 am–12:40 pm
Valerie D'Antonio | NYBG | 211HRT358C

6 Tuesdays, 9/29–11/3, 6:15–8:50 pm
Timothy Nolan | NYBG | 211HRT358D

\$395/\$435

LANDSCAPE PLANTS: SPRING TREES AND SHRUBS

TRACK 3 & 4

Learn the identification, classification, and landscape use of spring-flowering trees and shrubs. Major plant groups include *Magnolia*, *Malus*, *Prunus*, *Viburnum*, and other genera, which are particularly ornamental in spring. The class goes out on the grounds rain or shine. **P** Prerequisite: *Introduction to Plant Science*

5 Saturdays, 4/4–5/16 (no class 4/11 & 4/25), 10 am–1 pm
Vincent Simeone | NYBG | 204HRT334A

5 Tuesdays, 4/7–5/5, 10 am–1 pm
Timothy Nolan | NYBG | 204HRT334B

5 Thursdays, 4/16–5/14, 1:30–4:30 pm
Michael Ruggiero | NYBG | 204HRT334C

5 Fridays, 4/17–5/15, 10 am–1 pm
Michael Ruggiero | NYBG | 204HRT334D

\$295/\$325

Exam on last class date

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

LANDSCAPE PLANTS: SPRING PERENNIALS

TRACK 4

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

P Prerequisite: *Introduction to Plant Science*

4 Sundays, 4/26–5/31 (no class 5/10 & 5/24) ☞,
10:30 am–1:30 pm

Manny Grossman | NYBG | 204HRT336A

4 Fridays, 5/29–6/19 ☞, 10 am–1 pm
Michael Ruggiero | NYBG | 204HRT336B

4 Wednesdays, 6/3–6/24 ☞, 4:30–7:30 pm
Katie Bronson | NYBG | 204HRT336S

\$219/\$239

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. **P** Prerequisite: *Introduction to Plant Science*

7 Tuesdays, 7/28–9/8, 4:30–7 pm
Eric Lieberman | NYBG | 211HRT361

\$355/\$395

LANDSCAPE PLANTS: ANNUALS TRACK 4

Become familiar with the identification, culture, and landscape use of annuals and select tender perennials. Review major groups of common species as well as more unusual types. Learn how to choose low-maintenance plants, and review the scientific and common names and the identification of approximately 60 annuals.

P Prerequisite: *Introduction to Plant Science*

5 Wednesdays, 7/8–8/12 ☞ (no class 7/29),
10:30 am–12:30 pm

Michael Ruggiero | NYBG | 211HRT341A

5 Sundays, 7/19–8/16 ☞, 10 am–12 pm
Vincent Simeone | NYBG | 211HRT341B

\$195/\$215

**NEW!** Scouting for Insects and Pests

Scout for signs of pests in NYBG's diverse gardens, explore diagnostic skills to identify the problems, and develop a potential Integrated Pest Management plan.

3 Sundays, 5/3, 5/18, & 5/31 (rain date 6/14), 10 am–1 pm
Steven Conaway | NYBG | 204HRT417

3 Sundays, 8/9, 8/16, & 8/23 (rain date 8/30), 10 am–1 pm
Steven Conaway | NYBG | 211HRT417B

\$195/\$215

LANDSCAPE PLANTS: LATE SEASON PERENNIALS & GRASSES TRACK 4

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

P Prerequisite: *Introduction to Plant Science*

5 Wednesdays, 9/9–10/7 ☞, 4–7 pm
Adam Dooling | NYBG | 211HRT338S

5 Saturdays, 9/12–10/24 ☞, (no class 9/19 & 10/10),
11 am–2 pm
Michael Hagen | NYBG | 211HRT338A

5 Tuesdays, 9/29–10/27 ☞, 10 am–1 pm
Michael Ruggiero | NYBG | 211HRT338B

\$295/\$325

LANDSCAPE PLANTS: FALL TREES AND SHRUBS TRACK 3

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

5 Fridays, 9/25–10/23 ☞, 10 am–1 pm
Michael Ruggiero | NYBG | 211HRT331A

7 Wednesdays, 9/30–11/11 ☞, 3:30–5:30 pm
Michael Ruggiero | NYBG | 211HRT331B

5 Sundays, 10/4–11/8 ☞ (no class 10/11), 10 am–1 pm
Michael Ruggiero | NYBG | 212HRT331C

\$295/\$325

SUSTAINABLE GARDEN DESIGN TRACK 4

Learn the fundamental principles of design in this studio-oriented course, including site analysis, schematic and finished planting plans, and various garden styles. Study how to effectively use color when selecting specific garden plants. Practice combining flowering trees, shrubs, perennials, annuals, and bulbs into a cohesive design.

P Prerequisites: *Graphics I*, *Annuals, Spring Perennials*, and *Late Season Perennials & Grasses*

7 Saturdays, 10/24–12/12 (no class 11/28),
10 am–12:50 pm

Laura McKillop | NYBG | 212HRT551

\$485/\$535

INSECT PESTS OF LANDSCAPE PLANTS

TRACKS 1, 2, & 3

Learn to identify the insects common to the northeastern United States that feed on woody and herbaceous plants and the damage that they cause. Learn to judge the severity of an infestation and to select and implement control measures based on the insect's biology. **P** Prerequisite: *Introduction to Plant Science*

7 Wednesdays, 5/6–6/24 ☞ (no class 5/27),
12:30–3:30 pm

Mark Kokinchak | NYBG | 204HRT381S

7 Thursdays, 5/7–6/18 ☞, 4:30–7:30 pm
Don Gabel | NYBG | 204HRT381A

\$435/\$479

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 Mondays, 3/23–4/6, 4:30–6:30 pm
Mobee Weinstein | NYBG | 203HRT356

\$149/\$165

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. **P** Prerequisite: *Introduction to Plant Science*

7 Wednesdays, 4/15–5/27 ☞, 4:30–7:30 pm
Mark Kokinchak | NYBG | 204HRT481A

7 Wednesdays, 9/9–10/21 ☞, 12:30–3:30 pm
Mark Kokinchak | NYBG | 211HRT481S

7 Saturdays, 9/12–11/7 ☞, (no class 9/19 & 10/10),
10 am–1 pm

Mark Kokinchak | NYBG | 211HRT481B

\$475/\$495

HORTICULTURAL TECHNIQUES: LANDSCAPE GARDENING TRACK 2

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

7 Tuesdays, 3/10–4/21 ☞, 4:30–7:30 pm, and
Tuesday, 3/24, 10 am–4 pm, (rain date 3/25,
10 am–4 pm)

Mobee Weinstein | NYBG | 203HRT311P

\$455/\$495

PLANT PROPAGATION I: BASIC PRINCIPLES

TRACK 1

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

7 Mondays, 4/13–6/1📅, (no class 5/25), 6–9 pm
Michael Ruggiero | NYBG | 204HRT411A

7 Sundays, 6/28–8/30📅 (no class 7/5, 8/9 & 8/16),
10 am–1 pm
Michael Ruggiero | NYBG | 204HRT411B

7 Tuesdays, 7/7–8/18📅, 6–9 pm
Nick Storrs | Manhattan | 211HRT411C

7 Mondays, 9/14–11/9📅, (no class 9/28 & 10/12),
5:45–8:45 pm
Mobe Weinstein | NYBG | 211HRT411S

7 Sundays, 9/27–11/15📅 (no class 10/11),
10 am–1 pm
Nick Storrs | NYBG | 211HRT411P

\$479/\$525

TREE CLIMBING FOR ARBORISTS TRACK 3

Improve your climbing skills by learning techniques such as rope setting, knot tying, body thrusting, doublecrotching, foot locking, and limb walking. Taught on the Garden grounds, this class offers expert instruction and critique. Wear comfortable clothing, sturdy work, or hiking boots, and light leather or cloth gloves. All other equipment is provided. Please bring lunch.

3 Sundays, 5/31–6/21, (no class 6/7, rain date 6/28),
9 am–2:30 pm
Julian Picciano and Francisco Davila
NYBG | 204HRT304

\$395/\$435

URBAN TREE CARE TRACK 3

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

5 Saturdays, 3/21–4/25📅 (no class 4/11),
11 am–2 pm
Julian Picciano | NYBG | 203HRT426

\$295/\$325

📅 **Exam on last class date**



Sustainability Intensive | A One-Week Workshop

Taught by regional experts, this intensive combines field walks, lectures, classroom case studies, and Garden site tours to provide a firm foundation in sustainable horticulture and ecological design.

Day 1— Sustainable Landscapes as Ecosystems

Explore the practical steps every gardener can take to support biodiversity and conserve resources. Compare and contrast designed native gardens with restored natural ecosystems, discover the benefits of plant communities, and discuss how to manage change in a landscape.

Todd Forrest & Michael Hagen (NYBG)

Day 2— Soil Principles and Practices

Learn how to create a healthy soil food web by analyzing three case studies conducted at Brooklyn Bridge Park (BBP). Then, study how to protect soil and manage plant health through compost-based solutions and proper soil management.

Rebecca McMackin (BBP), Chris Roddick (BBG), & Kurt Morrell (NYBG)

Day 3— Hydrology and Irrigation

Examine the efficacy of past urban restoration efforts in wetland and coastal ecosystems in order to determine how best to proceed in the future. Learn to implement smart irrigation practices in order to use less water, avoid polluting water sources, and treat stormwater for reuse in the landscape.

John McLaughlin (DEP) & Art Elmers (Netafim Irrigation)

Day 4— Plant Health Care Practices

Discover how integrated pest management can help reduce applications of synthetic fertilizers, while discussing the most effective non-toxic alternatives to pesticides. Discuss monitoring practices, acceptable pest thresholds, and management techniques used to care for the roses, lilacs, azaleas, and lawns at NYBG.

Kent Pierce (Green Cross, Inc.) & Don Gabel (NYBG)

Day 5— Plant Selection and Design

Learn how select and source plants to maximize ecological and aesthetic potential. Discuss the pros and cons of using strictly native plants, native cultivars, and regionally appropriate non-natives. Discover how best to manage invasive plants and use plant material to reduce energy consumption and improve soil health.

Brian Sullivan, Adam Choper, Michael Hagen, & Adam Dooling (NYBG)

Monday–Friday, 9/28–10/2, 9 am–3 pm
NYBG | 211HRT490F | \$745/\$825

For session details, CEUs, and instructor bios visit nybg.org/adulted

Horticultural Therapy



©Garin Baker, *Through the Blossoms*, Oil on linen

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.



“As a clinical laboratory scientist and a NYBG-trained urban naturalist, I’m in my element exploring the crossroads of nature and medicine, so when I discovered NYBG’s Horticultural Therapy Program, it was the next step in the right direction. The instructors and the internship have been inspiring. In my current role, I know my patients through their samples but as an HT student, I also know them for who they are. And that’s beyond priceless.”

— ANSEL OOMMEN, MLS (ASCP),
Current Student



SUMMER INTENSIVE CLASSES

June 9–August 22

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

Introduction to Horticultural Therapy

Tuesday, Wednesday, & Friday, 6/9, 6/10, & 6/12,
10 am–3:30 pm | 204THR301A

Tuesday, Wednesday, & Friday, 7/14, 7/15, & 7/17,
10 am–3:30 pm | 211THR301C

Horticultural Therapy for Older Adults

Tuesday, Thursday, & Saturday, 6/16, 6/18, & 6/20
10 am–3:30 pm | 204THR401

Horticultural Therapy for Physical Rehabilitation

2 Wednesdays, 6/24, & 7/1, & 1 Saturday, 6/27,
10 am–3:30 pm | 204THR403

Horticultural Therapy for Exceptional Youth

Tuesday, Thursday, & Friday, 7/7, 7/9, & 7/10,
10 am–3:30 pm | 211THR402

Activities Analysis for Horticultural Therapy

3 Saturdays, 7/11–7/25,
10 am–3:30 pm | 211THR407

Horticultural Therapy in Behavioral Health Settings

Monday, Wednesday, & Friday, 7/20, 7/22, & 7/24,
10 am–3:30 pm | 211THR404

Horticultural Therapy Methods and Materials

2 Wednesdays, 7/29 & 8/5, &
1 Saturday, 8/1, 10 am–3:30 pm | 211THR406A

Garden Design for Special Populations

3 Fridays, 8/7–8/21,
10 am–3:30 pm | 211THR408A

Horticultural Therapy Program Management

3 Saturdays, 8/8–8/22,
10 am–3:30 pm | 211THR409A

Site visits are also scheduled in July and August. See class listings on page 41 for descriptions, instructors, and fees.

GET NYBG CERTIFIED

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

Phyllis D’Amico, HTM, Program Coordinator

Anne Meore, HTR, Program Advisor

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

CERTIFICATE REQUIREMENTS

Certificate students must complete 189 course hours (181 required + 8 site visit hours), plus a 100-hour internship. After completing at least 6 Horticultural Therapy courses (prefix THR), students should contact the Program Coordinator to arrange their internship. To be considered for graduation on June 7, 2020, all internship documentation must be submitted to the Registration Office by May 11, 2020.

Course	Code	Hours	Page
Introduction to Horticultural Therapy	THR 301	15	40
Horticultural Therapy for Exceptional Youth	THR 402 P	15	41
Horticultural Therapy for Physical Rehabilitation	THR 403 P	15	41
Horticultural Therapy for Older Adults	THR 401 P	15	41
Fundamentals of Gardening	GAR 301	12	29
Horticultural Therapy in Behavioral Health Settings	THR 404 P	15	41
Horticultural Therapy Methods and Materials	THR 406 P	15	40
Activities Analysis for Horticultural Therapy	THR 407 P	15	41
Introduction to Plant Science	HRT 300	16	35
Plant Propagation I: Basic Principles	HRT 411 P	18	37
Garden Design for Special Populations	THR 408 P	15	40
Horticultural Therapy Program Management	THR 409 P	15	40
Horticultural Therapy Site Visits (see list below)		8	41
TOTAL REQUIRED HOURS		189	

Site Visits	Code	Hours	Page
NYU Langone Medical Center, Therapeutic Horticulture Services	THR 525 P	5	41
The HSNY's GreenHouse Program on Rikers Island	THR 537 P	6	41
Cardinal Cooke Health Center	THR 528 P	4	41
Good Samaritan Regional Medical Center: The Garden of Hope	THR 546 P	5	41
Parker Health Group	THR 516 P	5	41
Bergen New Bridge Medical Center	THR 531 P	5	41

P Courses with a prerequisite before you can register

College Credit Recommendation

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

The Horticultural Therapy Certificate Program is accredited by the American Horticultural Therapy Association (AHTA). Horticultural Therapy courses are eligible for college credit and can be applied toward voluntary Professional Registration through the AHTA. See page 55 for more information.

INTRODUCTION TO HORT THERAPY

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

3 Saturdays, 3/28–4/18 (no class 4/11), 10 am–3:30 pm
Anne Meore, HTR | NYBG | 203THR301C

2 Saturdays, 5/30 & 6/13, 10 am–3:30 pm, in Manhattan, and 1 Saturday, 6/6, 10 am–3:30 pm, at NYBG
Matthew Wichrowski, HTR | 204THR301B

Tuesday, Wednesday, & Friday, 6/9, 6/10, & 6/12, 10 am–3:30 pm
Anne Meore, HTR | NYBG | 204THR301A

Tuesday, Wednesday, & Friday, 7/14, 7/15, & 7/17, 10 am–3:30 pm
Anne Meore, HTR | NYBG | 211THR301C

3 Saturdays, 9/12–10/3 (no class 9/19), 10 am–3:30 pm
Anne Meore, HTR | NYBG | 211THR301D

2 Saturdays, 10/24 & 10/31, &
1 Wednesday, 11/4, 10 am–3:30 pm
Anne Meore, HTR | NYBG | 212THR301A

\$375/\$415

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. **P** Prerequisite: *Horticultural Therapy for Physical Rehabilitation*

3 Wednesdays, 3/11–4/1 (no class 3/25), 6–9 pm, and 1 Saturday, 3/28, NYBG, 10 am–3:30 pm
Nancy Minich, HTR, RLA | Manhattan | 203THR408

3 Fridays, 8/7–8/21, 10 am–3:30 pm
Nancy Minich, HTR, RLA | NYBG | 211THR408A

\$419/\$459

HORT THERAPY METHODS AND MATERIALS

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

3 Wednesdays, 4/15–4/29, 5:30–8:45 pm, and 1 Sunday, 4/26, 10 am–3:30 pm
Phyllis D'Amico, HTM, and John Beirne, HTR | NYBG 204THR406

2 Wednesdays, 7/29 & 8/5, &
1 Sunday, 8/2, 10 am–3:30 pm
Phyllis D'Amico, HTM, and John Beirne, HTR | NYBG 211THR406A

\$419/\$459

HORT THERAPY PROGRAM MANAGEMENT

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

P Prerequisites: *Exceptional Youth, Older Adults, Physical Rehab, and Behavioral Health Settings*

3 Saturdays, 5/2–5/16, 10 am–3:30 pm
Pat Czarnecki, HTR | NYBG | 204THR409

3 Saturdays, 8/8–8/22, 10 am–3:30 pm
Pat Czarnecki, HTR | NYBG | 211THR409A

\$419/\$459



SITE VISITS

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

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

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 to the Manhattan site are mailed with your confirmation letter.

Tuesday, 3/24, 10:30 am–2:30 pm
Donna Arabian, HTR | Off site | 203THR528

\$135/\$149

BERGEN NEW BRIDGE MEDICAL CENTER

Located in Paramus, New Jersey, Bergen New Bridge Medical Center is the third largest public hospital in the US, and its HT program is over 25 years old. Tour the greenhouse where residents of all ages propagate and maintain plants, and take part in HT crafts programming on one of three screened in porches fitted with elevated planters.

Tuesday, 4/14, 10:30 am–2:30 pm
Ilona Toth | Off site | 204THR531

\$135/\$149

NEW! PARKER HEALTH GROUP

As a leader in services for older adults, Parker Health Group “makes aging part of life” by using a person-centered approach. Observe Eden Alternative principles in action as you tour Parker's assisted living and long-term residential care facilities in New Jersey. You'll be able to participate with elders in one of many horticultural therapy activities available, such as outdoor gardening, propagation, and botanical crafts.

Monday, 5/18, 9:30 am–2:30 pm
Lee Shahay | Off site | 204THR516

\$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, 7/14, 9 am–2:30 pm
Matthew Wichrowski, HTR, and staff | Off site
211THR525

\$135/\$149

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

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

Friday, 7/31, 6:30 am–1 pm
Hilda Krus, HTR | Off site | 211THR537

\$135/\$149


GOOD SAMARITAN REGIONAL MEDICAL CENTER: THE GARDEN OF HOPE

With its 32' x 40' growing space for edible and sensory plantings, The Garden of Hope offers horticultural therapy opportunities to a wide array of special needs populations. The garden is equipped with rolling planting tables, traditional raised beds, and accessibility features for those with mobility challenges. Explore and engage in therapeutic techniques specific to programming in outdoor spaces.

Monday, 8/10, 9:30 am–2:30 pm
Anne Meore, HTR | Off site | 211THR546

\$135/\$149


HORT THERAPY FOR EXCEPTIONAL YOUTH

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

Tuesday, Thursday, & Friday, 7/7, 7/9, & 7/10, 10 am–3:30 pm
Phyllis D'Amico, HTM | NYBG | 211THR402

\$419/\$459

HORT THERAPY FOR OLDER ADULTS


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

Tuesday, Thursday, & Saturday, 6/16, 6/18, & 6/20
10 am–3:30 pm

Abby Jarosolow, HTR | NYBG | 204THR401

\$419/\$459

HORT THERAPY FOR PHYSICAL REHABILITATION


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

2 Wednesdays, 6/24, & 7/1, & 1 Saturday, 6/27,
10 am–3:30 pm

Matthew Wichrowski, HTR | NYBG | 204THR403

\$419/\$459


ACTIVITIES ANALYSIS FOR HORT THERAPY

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

3 Saturdays, 7/11–7/25, 10 am–3:30 pm
Abby Jaroslow, HTR | NYBG | 211THR407

\$419/\$459

HORT THERAPY IN BEHAVIORAL HEALTH SETTINGS

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

Monday, Wednesday, & Friday, 7/20, 7/22, & 7/24,
10 am–3:30 pm

Erin Backus, HTR | NYBG | 211THR404

\$419/\$459



Landscape Design



©Marc Taro Holmes, *Morning in the Conservatory*, Watercolor

The need to develop, preserve, and protect our open spaces and environmental and cultural resources has never been greater. NYBG's engaging, career-oriented program gives you a solid, plant-focused foundation along with the skills and confidence to start your own business. And the Garden offers 250 inspiring acres of sustainable, functional landscapes for up-close, in-depth study. Take a single class for pleasure or pursue a professional Certificate in Landscape Design.

THE CERTIFICATE PROGRAM

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

Upon completion of the program, students will:

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



SUMMER INTENSIVE PROGRAM

July 6–August 7

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

CLASSES

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

Monday–Friday, July 6–August 7, 9 am–5 pm | NYBG | 211LAN960

TUITION AND REFUNDS

\$3,865 (Member) / \$4,249 (Non-Member)

A \$1,285 non-refundable deposit is due at registration.

All materials needed for *Graphics I* and *II* are provided.

An optional payment schedule is available if requested. \$1,285 is due at registration; 2nd payment due May 18, final payment June 15. No refunds after Monday, June 15, 2020.

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

Class size is limited for individualized attention. Enroll now!



Photo © Pam Connolly

“I began taking classes while in the midst of selling my former business. I only hoped to take a few classes, clear my head and prepare for life’s next chapter. Once begun, I decided to pursue a Certificate in Landscape Design. Soon I was spending my days walking the paths at NYBG. Nights I spent drawing and solving design problems. Now, Certificate in hand, I’ve happily turned a page in my life—with a clear head, some talented new friends, and a growing design consultancy.”

— DAVID CONNOLLY, 2019 Graduate



GET NYBG CERTIFIED

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

Susan Cohen, Program Coordinator
William Harris Einhorn, Program Advisor

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

CERTIFICATE REQUIREMENTS

Course	Code	Hours*	Page
Tier 1 – Introductory Classes			
Landscape Design History	LAN 301	24	44
Graphics I: Hand Rendering	LAN 311	24	45
Landscape Measurement	LAN 340	12	44
Landscape Plants: Fall Trees and Shrubs	HRT 331 P	12	36
Landscape Plants: Spring Trees and Shrubs	HRT 334 P	12	35
Plants for Landscaping	HRT 358	16	35
Tier 2			
Landscape Design I	LAN 401 P	24	45
Landscape Design II	LAN 402 P	24	45
Estimating**	LAN 380 P	9	—
Graphics II: Hand Rendering	LAN 411 P	24	45
Site Materials and Details	LAN 422 P	24	45
Tier 3			
Grading and Drainage	LAN 428 P	24	45
Graphics III: SketchUp	LAN 417 P	24	45
Landscape Design III	LAN 403 P	24	45
Professional Practice for Landscape Designers	LAN 485 P	12	45
Landscape Design IV	LAN 520 P	33	45
Portfolio and Presentation Skills	LAN 555 P	15	45
TOTAL REQUIRED HOURS		337	

*Course hours do not include exam hours

** Courses offered in the Fall–Winter Catalog

P Courses with a prerequisite before you can register For professional organizations, see p. 55.

STUDENT INFORMATION

In addition to the course fees listed, students should anticipate spending approximately \$700 on class materials while completing their Certificate. Students should expect that homework will be assigned in most courses.

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 an overview of the practice or who are considering a Certificate.

3 Thursdays, 6/4–6/18, 10 am–1 pm
Daryl Beyers | NYBG | 204LAN100A

3 Thursdays, 7/23–8/6, 6:15–9:15 pm
Daryl Beyers | Manhattan | 211LAN100B

3 Mondays, 9/14–10/5 (no class 9/28), 10 am–1 pm
Daryl Beyers | NYBG | 211LAN100C

3 Tuesdays, 9/15–9/29, 6:15–9:15 pm
Kimberly Tryba | Manhattan | 211LAN100D

\$185/\$205

LIGHTING DESIGN WORKSHOP

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

2 Fridays, 6/5 & 6/12, 10 am–2:30 pm
Gary Novasel | NYBG | 204LAN158

\$229/\$249

PLANT COMMUNITIES WORKSHOP

Fundamentally change the way you view natural landscapes by learning about the complex factors that inform which plants grow in what combinations. Understanding how and why these plant communities form will help you design beautiful landscapes that are more resilient, diverse, and visually harmonious.

2 Fridays, 7/17 & 7/24, 10 am–1 pm
Jessica Arcate-Schuler | NYBG | 211HRT140A

2 Saturdays, 8/22 & 8/29, 10 am–1 pm
Ethan Dropkin | Manhattan | 211HRT140B

\$169/\$185

ADAPTING THE JAPANESE GARDEN FOR THE AMERICAN LANDSCAPE

Explore the beauty and simplicity of Japanese design principles as you embark on a rare opportunity to tour the private garden on the grounds of Rockefeller's Kykuit Estate. We'll begin the day at NYBG discussing the evolution of Japan's centuries-old design principles that inform traditional gardens. In the afternoon, we'll travel to the Japanese Garden in Westchester for an intimate tour and tea ceremony demonstration in the teahouse designed by famed Tokyo architect Junzo Yoshimura.

Monday, 6/22, 9:30 am–3:30 pm
Stephen Morrell | NYBG | 204LAN159

\$195/\$215

NEW! GREEN ROOF DESIGN

Explore best practices for analyzing sites, balancing weight restrictions with programmatic goals, selecting resilient plant palettes, managing stormwater, and more. We'll overview typical green-roof components (including proprietary systems and soils), discuss the challenges of green-roof microclimates, and consider the expanding possibilities for green roofs in New York City and beyond. Final projects will use New York City's Climate Mobilization Act of 2019 as a springboard for an original green-roof design proposal.

4 Mondays, 9/21–10/19 (no class 10/12), 6–9 pm
David Holzman | Manhattan | 211LAN461

\$325/\$365

CERTIFICATE CLASSES

These classes are open to Non-Certificate students.

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.

9 Tuesdays, 3/31–5/26, 6:15–9:15 pm
Mark Bunnell, RLA | Manhattan | 203LAN301E

9 Fridays, 3/20–5/8, 10 am–1 pm
Caitlin Merritt | NYBG | 203LAN301F

9 Tuesdays, 10/6–12/8 (no class 11/24), 6:15–9:15 pm
Mark Bunnell, RLA | Manhattan | 211LAN301A

9 Wednesdays, 10/7–12/16
(no class 11/11 & 11/25), 10 am–1 pm
Paula Sarathy | NYBG | 211LAN301B

\$595/\$655 *Certificate Requirement*

LANDSCAPE MEASUREMENT

Precise field measurement is the crucial first step in landscape design. Learn to create a site plan using tape measures, baseline, and offset measurement techniques. Practice using builders' levels to collect spot elevations and convert them to contours that demonstrate elevation on a site plan. Practice these skills by mapping a large site and creating a topographic drawing to scale. Dress for the weather.

4 Saturdays, 4/4–5/2 (no class 4/11),
(Rain date 5/16), 10 am–1 pm
Sarah Hettinger | NYBG | 204LAN340A

4 Saturdays, 9/26–10/31, (no class 10/3, & 10/10)
(rain date 11/7), 10 am–1 pm
Wayne Cahilly | NYBG | 211LAN340C

\$295/\$329 *Certificate Requirement*

 Exam on last class date

The Life and Legacy of Russell Page

Christopher Woodward, Director of the Garden Museum, London



Englishman Russell Page (1906–85) was a visionary garden designer who drew inspiration from historic English, French, and Islamic garden styles. The majority of his projects were closely guarded secrets of the cultured rich, from the

Aga Khan and the Agnellis, to Babe Paley and the Duchess of Windsor. Drawing from the Garden Museum's impressive archives, design historian Christopher Woodward (above) shares fascinating insights with an emphasis on Page's American works, including The Frick Collection, the PepsiCo Sculpture Garden, and even a pink plastic fountain in Central Park!

Friday, February 28, 11 am–12:30 pm
Mertz Library Reading Room, NYBG

203LAN812 | \$25/\$29

GRAPHICS I: HAND RENDERING

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

8 Thursdays, 4/2–5/28 (no class 4/9), 10 am–1 pm
William Harris Einhorn, RLA | NYBG | 204LAN311A

8 Tuesdays, 5/5–6/23, 6:15–9:15 pm
Gustavo Capparelli | NYBG | 204LAN311B

Monday–Thursday, 7/6–7/16, 6–9 pm
Elizabeth Poccia | Manhattan | 211LAN311C

8 Thursdays, 10/1–11/19, 6–9 pm
Elizabeth Poccia | Manhattan | 212LAN311D

8 Mondays, 10/19–12/7, 10 am–1 pm
William Harris Einhorn, RLA | NYBG | 212LAN311A

\$595/\$655 *Certificate Requirement*

LANDSCAPE DESIGN I: SITE ANALYSIS AND SCHEMATIC DESIGN

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

8 Wednesdays, 5/13–7/1, 6:15–9:15 pm
David Holzman | Manhattan | 204LAN401

\$575/\$635 *Certificate Requirement*

GRAPHICS II: HAND RENDERING

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

8 Wednesdays, 5/6–6/24, 10 am–1 pm
Gustavo Capparelli | NYBG | 204LAN411A

8 Tuesdays, 9/22–11/10, 6:15–9:15 pm
William Harris Einhorn, RLA | NYBG | 211LAN411B

\$595/\$655 *Certificate Requirement*

GRADING & DRAINAGE

Creating beautiful and sustainable outdoor spaces requires an understanding of the principles of grading and drainage. Through classroom discussion, fieldwork, and homework, students will learn to identify landforms and watersheds, calculate slopes, and manipulate contours with the purpose of creating garden rooms and controlling water flow. An emphasis will be placed on how to communicate design ideas to contractors and how to evaluate the opportunities and constraints of a project site.

P Prerequisites: *Landscape Measurement, Landscape Design I*, and *Graphics II*

8 Wednesdays, 3/4–4/22, 10 am–1 pm
Alice Eckerson | NYBG | 203LAN428B

8 Fridays, 10/16–12/11 (no class 11/27), 10 am–1 pm
Alice Eckerson | NYBG | 212LAN428A

\$575/\$635 *Certificate Requirement*

LANDSCAPE DESIGN II: DESIGN DEVELOPMENT

Apply basic design concepts to site-specific problems, focusing on the process of design development. Start with a conceptual design, then progress through the schematic phase, leading to a preliminary design solution. Examine the relationships of landscape elements and materials to the design process.

P Prerequisites: *Landscape Design I* and *Graphics II*

8 Wednesdays, 3/11–4/29, 6:15–9:15 pm
David McConnell | NYBG | 203LAN402B

8 Wednesdays, 9/16–11/4, 10 am–1 pm
Leslie Needham | NYBG | 211LAN402A

\$575/\$635 *Certificate Requirement*

SITE MATERIALS AND DETAILS

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

8 Mondays, 3/16–5/4, 10 am–1 pm
William Harris Einhorn, RLA | NYBG | 203LAN422B

8 Mondays, 9/14–11/16 (no class 9/28 & 10/12), 6:15–9:15 pm
Gustavo Capparelli | NYBG | 211LAN422A

\$575/\$635 *Certificate Requirement*

GRAPHICS III: SketchUp

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

P Prerequisite: *Graphics II*

8 Fridays, 9/18–11/6, 10 am–1 pm
William Harris Einhorn, RLA | NYBG | 211LAN417

\$595/\$655 *Certificate Requirement*

LANDSCAPE DESIGN III: PLANTING DESIGN

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

P Prerequisites: *Landscape Design II, Graphics III*, and *Plants for Landscaping*

8 Thursdays, 3/26–5/21 (no class 4/9), 6:15–9:15 pm
Alexis Gagne | NYBG | 203LAN403B

8 Thursdays, 9/17–11/5, 10 am–1 pm
Alexis Gagne | NYBG | 211LAN403A

\$575/\$635 *Certificate Requirement*

PORTFOLIO AND PRESENTATION SKILLS

Create visually compelling portfolios to present to potential clients and potential employers. 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.

P Prerequisite: *Landscape Design III*

5 Tuesdays, 3/10–4/7, 6:15–9:15 pm
Adam Molinski | NYBG | 203LAN555

\$379/\$415 *Certificate Requirement*

PROFESSIONAL PRACTICE FOR LANDSCAPE DESIGNERS

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

4 Wednesdays, 10/7–10/28, 10:15 am–1:15 pm
Jessica Zavaglia | NYBG | 212LAN485

\$295/\$325 *Certificate Requirement*

LANDSCAPE DESIGN IV: DESIGN AND CONSTRUCTION

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

11 Wednesdays, 3/11–5/20, 4:30–7:30 pm
Liz Pulver | NYBG | 211LAN520B

\$829/\$909 *Certificate Requirement*

Photography

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



FLASH PHOTOGRAPHY: THE ORCHID SHOW

Get an exclusive opportunity to photograph The Orchid Show using your DSLR 100-300 mm telephoto lens, and dedicated speedlights. Master techniques to achieve the best lighting and exposure for these vibrant flowers without the use of tripods or monopods. Afterward, return to the classroom for a review and critique of your images. Please bring lunch.

Friday, 4/10, 9 am–3 pm
Jeffrey Falk | NYBG | 204GWP937

\$109/\$119

ABSTRACT PHOTOGRAPHY

Experiment with composing abstract images using botanical subjects, taking inspiration from Georgia O'Keeffe. An expert at honing in on beautiful details from years working in high-end fashion, Douglas Dubler will show you how to use the lines, shapes, patterns, textures, and colors of petals, leaves, stems, and vines to create intriguing pictures. Where we shoot will depend on what's in season and on exhibition. Digital SLR cameras preferred.

Wednesday, 4/22, 11 am–2 pm
Douglas Dubler | NYBG | 204GWP211A

Sunday, 8/9, 2–5 pm
Douglas Dubler | NYBG | 211GWP211B

\$59/\$65

NEW! PHOTOGRAPHING POLLINATORS

Spectacularly beautiful and incredibly diverse, birds and insects present unique opportunities and challenges for the photographer. Discover tips and tricks for finding and capturing pollinators in action, as well as the best ways to approach subjects in the field. Practice new techniques on Garden grounds and learn to get the most from your equipment, whatever you may use. We will also cover post-processing techniques.

Saturday, 6/20, 11 am–2 pm
Ken Chaya | NYBG | 204GWP254

\$59/\$65

PROP STYLING WITH BOTANICALS

Professional prop stylist Robin Zachary shares her insights on styling photos using botanicals. She'll also show you how to curate a variety of tabletop settings, including modern, vintage, and rustic. Some backdrops and props will be provided, but feel free to bring your own, along with your camera or smartphone so you can experiment. No professional experience necessary. The focus of this class is on photography and styling rather than designing floral arrangements. \$20 materials fee.

Saturday, 8/8, 11 am–2 pm
Robin Zachary | Manhattan | 211FDN312B

\$95/\$105



Abstract Photography

©Douglas Dubler



Photographing Pollinators

©Ken Chaya

GOODBYE DIGITAL CAMERA...HELLO IPHONE!

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

Thursday, 5/14, 10 am–1 pm
Donald Gambino | NYBG | 204GWP151A

Thursday, 5/14, 2–5 pm
Donald Gambino | NYBG | 204GWP151B

\$59/\$65

ADVANCED IPHONE PHOTOGRAPHY

Make artistic images with your iPhone, the world's most-used camera! Learn to "see as a professional" and make proper use of your focus, flash, self-timer and zoom capabilities. See how preparation, lighting, and environmental conditions can help create unique images. Fun, weekly homework assignments and in-class critiques will challenge you to play with perspective, framing, cropping, color, size, emotion, mood and more. Familiarity with iPhone basics is required.

4 Thursdays, 6/4–6/25, 10 am–1 pm
Donald Gambino | NYBG | 204GWP161

\$195/\$215

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.

Saturday, 6/6, 9 am–3 pm
Jeffrey Falk | NYBG | 204GWP928

\$109/\$119



Prop Styling with Botanicals

©Robin Zachary



Flash Photography: The Orchid Show

©Jeff Falk

BOTANICAL BLUES: CYANOTYPE

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

Saturday, 6/27 (rain date 6/28), 10:30 am–3 pm
William Waitzman | NYBG | 204CRF128A

Saturday, 8/29 (rain date 8/30), 10:30 am–3 pm
William Waitzman | NYBG | 204CRF128B

\$139/\$155

LIGHT, SHADOW, AND THE GOLDEN HOUR

Light fundamentally influences the mood and composition of your photos. Explore how to make the best use of different kinds of natural light by optimizing your camera settings, consciously choosing what time of day you shoot, and using shadows, a fill light, or a reflector. We'll take pictures on the grounds and then discuss the results. All levels welcome.

Saturday, 7/25 (rain date 7/26), 4:30–7:30 pm
David Samuel Stern | NYBG | 211GWP238

\$59/\$65

SPECIAL PHOTOGRAPHERS' HOURS

For serious photographers only, this is a rare opportunity to capture the exquisite beauty of NYBG's exhibitions without casual visitors present. Bring your tripod (the only time we'll allow them in the Conservatory!), since you'll be shooting with available light. Please minimize gear—no backdrops or screens.

THE ORCHID SHOW: Jeff Leatham's Kaleidoscope

Friday, 3/6, 8:30–10 am | 203GWP229 | \$49/\$55

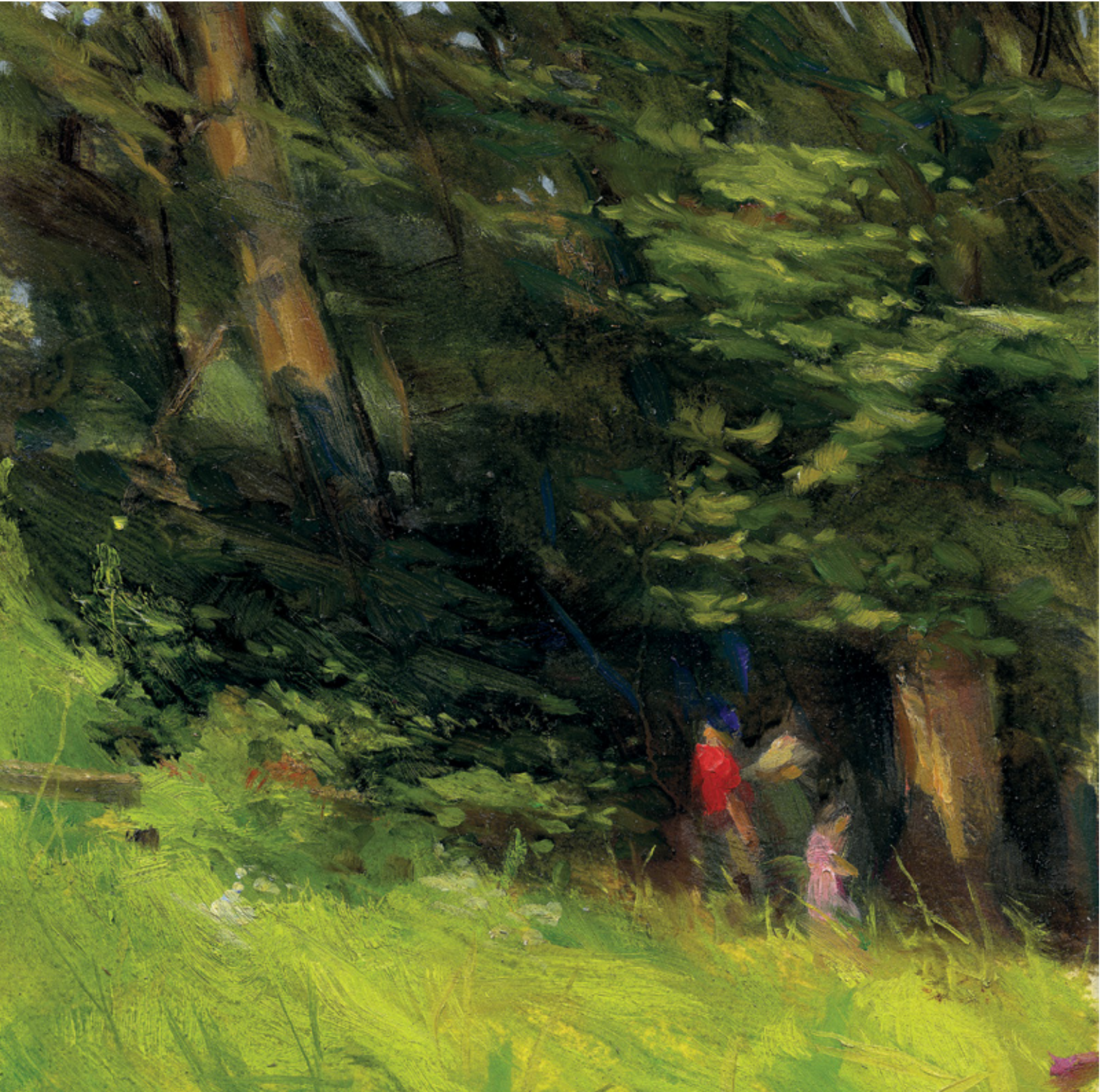
KUSAMA: Cosmic Nature

Friday, 7/17, 8:30–10 am | 211GWP241A | \$49/\$55



Yayoi Kusama, 2020

Urban Naturalist



In this teeming metropolis we call home, nature is all around us whether we pause to carefully observe it or not. Amaranth springs through the cracks in our sidewalks; migrating warblers rest in our parks; horseshoe crabs scuttle onto our beaches to breed. As a NYBG Urban Naturalist, you will have a unique opportunity to explore these diverse habitats while discovering the keys that unlock their many secrets.

THE CERTIFICATE PROGRAM

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

FIELD STUDY PROJECT

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

CERTIFICATE REQUIREMENTS

Course	Code	Hours	Page
Basic Plant ID (or equivalent course)	BOT 308	6	50
<i>One of the two Birds classes:</i>		12	
Natural History of Birds: Fall**	NAT 321		—
Natural History of Birds: Spring	NAT 317		50
Natural History of Insects	NAT 322	9	50
<i>Two of the four Native Flora courses:</i>		24	
Native Flora in Autumn	BOT 331		51
Native Flora in Winter**	BOT 332		—
Native Flora in Spring	BOT 333		50
Native Flora in Summer	BOT 334		51
Introduction to Urban Ecology**	NAT 338	4	—
The Ecosystems of New York City	NAT 337 P	9	51
Urban Ecology Field Study	NAT 323 P	9	51
<i>Elective Credits (See current electives below)</i>		30	
TOTAL REQUIRED HOURS		103	

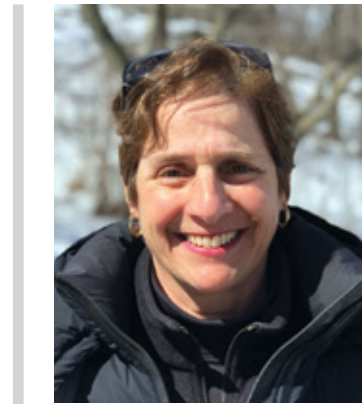
ELECTIVES

The following Naturalist courses—along with all Botany electives listed on pages 12 and 13—count toward the 30 required elective hours.

Course	Code	Hours	Page
Urban Flora: Growing Between the Cracks	NAT 332	6	50
Spotlight on Bird Songs	NAT 341	3	51
Night Callers: Bronx Bats	NAT 329	3	51
Pollination Ecology	NAT 325	6	51
Field Sketching	NAT 400	3	50

**Courses offered in the Fall-Winter Catalog

P Courses with a prerequisite before you can register



“Through NYBG’s Urban Naturalist Program, I was able to explore local wildlife that I never knew existed so close by. Through weekly study site visits on the Bronx River, I discovered an American eel, which was a thrilling way to connect with nature! The excitement of sharing this natural history with friends and family inspired me to become a tour guide at NYBG!”

—CYNTHIA ROBERTS, 2019 Graduate

QUESTIONS? CONTACT PROGRAM COORDINATOR NANCY SLOWIK AT NATCOORDINATOR@NYBG.ORG





BASIC PLANT ID

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

2 Wednesdays, 3/11 & 3/18, 5–8 pm
Elle Barnes | Manhattan | 203BOT308B

2 Tuesdays, 6/16 & 6/23, 5–8 pm
Katie Bronson | NYBG | 204BOT308A

2 Saturdays, 7/11 & 7/18, 10 am–1 pm
Clara Holmes | Manhattan | 211BOT308B

\$145/\$159 *Certificate Requirement*

SPRING MUSHROOMS

As the mushroom season awakens, discover how and where to hunt for Oysters, Inky Caps, Wine Caps, Dryad's Saddle, Reishi, and the early spring Chicken Mushroom. Even the elusive Morels occur throughout the metropolitan region, and spring is the ideal time to find them. Learn to correctly identify mushrooms, how to differentiate them from look-alikes, and get recipes for the best ways to prepare them in a meal.

2 Thursdays, 4/16 & 4/23, 10 am–1 pm
Paul Sadowski | NYBG | 204BOT330A

2 Mondays, 4/27 & 5/4, 10 am–1 pm
Paul Sadowski | Manhattan | 204BOT330B

\$145/\$159 *Certificate Elective*

NATIVE FLORA IN SPRING

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

4 Fridays, 4/17–5/8, 10 am–1 pm
Nancy Slowik | NYBG | 204BOT333A

4 Saturdays, 4/25–5/16, 10 am–1 pm
Clara Holmes | Manhattan | 204BOT333B

\$295/\$325 *Certificate Requirement*

NATURAL HISTORY OF BIRDS: SPRING

With its variety of habitats and position on the Atlantic Flyway, NYC is a bird-lover's paradise! Over 300 distinct resident or migratory species live or pass through here each year, including many nesting species such as Peregrine Falcons, Red-tailed Hawks, Yellow Warblers, Warbling Vireos, and Baltimore Orioles. Discover the important role birds play in our ecosystem. And improve your ability to identify species by learning to use field marks, observe distinctive feather patterns, beak and body shapes, and evaluate songs and behaviors.

4 Saturdays, 4/18–5/9 (rain date 5/30),
9:30 am–12:30 pm
Ken Chaya | Manhattan & Central Park | 204NAT317A

4 Tuesdays, 5/5–5/26 (rain date 6/2), 10 am–1 pm
Ken Chaya | NYBG & Central Park | 204NAT317B

\$295/\$325 *Certificate Requirement*

NATURAL HISTORY OF INSECTS

Delve into the fascinating world of the creatures that make up 84% of the Animal Kingdom—what renowned biologist E.O. Wilson once called “the little things that run the world.” We'll discuss the critical and fascinating roles that insects play—in maintaining healthy ecosystems, as well as their own complex social systems. We will explore the wonder of metamorphosis and the amazing variety of defensive strategies and adaptations insects have developed to survive. Ample time will be spent on garden grounds, observing insects and learning how to identify them.

3 Thursdays, 5/7–5/21, (Rain date 5/28), 10 am–1 pm
Ken Chaya | NYBG | 204NAT322

\$225/\$245 *Certificate Requirement*

NEW! URBAN FLORA: GROWING BETWEEN THE CRACKS

Plants can be found growing in the most unlikely places, from city sidewalks and highway medians to lawns and other man-made structures. While most of these species are introduced and many are considered weeds, they benefit the urban landscape. Learn about their origins and life cycles, and practice identifying them in the field.

2 Wednesdays, 5/20 & 5/27, 10 am–1 pm
Nancy Slowik | NYBG | 204NAT332

\$125/\$139 *Certificate Elective*



FIELD JOURNALS

FIELD SKETCHING

Take your naturalist game to the next level by learning how to sketch. Drawing asks you to slow down and closely observe what you see, which helps you identify unfamiliar species and investigate ecological connections. Botanical artist and avid birder Frank Guida will show you tips and tricks to accurately capture nature's important details. No previous drawing experience required.

2 Sundays, 5/17 & 5/31 (rain date 6/14),
10 am–1 pm
Frank Guida | NYBG | 204NAT400

\$145/\$159 *Certificate Elective*



URBAN ECOLOGY FIELD STUDY

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

P Prerequisite: *Introduction to Natural History*

3 Wednesdays, 6/3–6/17 (Rain date 6/24), 10 am–1 pm
Nancy Slowik | NYBG & Central Park | 204NAT323

\$225/\$245 *Certificate Requirement*

NEW! SPOTLIGHT ON BIRD SONGS

Did you know that Blue Jays can mimic the cry of a Red-tailed Hawk? Train your ear to find them as well as other talented mimics, comical improvisers, brilliant songsters, and heart-throb spring soloists. The vocalizations of our native birds are many and vary widely from soft chip notes to navigational flight calls, territorial declarations, and lovely courtship serenades. Explore these distinctions in the classroom and on Garden grounds. Take one session or both, as each focuses on different species.

Tuesday, 4/21, 10 am–1 pm
Ken Chaya | NYBG | 204NAT341A

Wednesday, 5/6, 10 am–1 pm
Ken Chaya | NYBG | 204NAT341B

\$95/\$105 *Certificate Elective*



NATIVE FLORA IN SUMMER

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

4 Fridays, 6/19–7/17 (no class 7/3), 10 am–1 pm
Nancy Slowik | NYBG | 204BOT334

\$295/\$325 *Certificate Requirement*

NIGHT CALLERS: BRONX BATS

The fascinating lives of bats are revealed courtesy of J. Alan Clark, Ph.D., co-author of *Bats in the Bronx*, a recent study of five local bat species. After a brief lecture, we will venture onto NYBG's grounds using handheld equipment to locate and identify bats through their ultrasonic calls. This equipment creates a picture of each bat's call, and we hope to "see" several species, including Eastern Red bats in the summer and Silver-Haired bats in the fall.

Wednesday, 7/15, 6:30–8:30 pm
J. Alan Clark, Ph.D. | NYBG | 211NAT329A

Tuesday, 8/18, 6:30–8:30 pm
J. Alan Clark, Ph.D. | NYBG | 211NAT329B

\$85/\$95 *Certificate Elective*

NEW! POLLINATION ECOLOGY

Study the crucial role birds, insects, and bats play in local ecosystems. Expert naturalist Alan Wells discusses the many different types of pollination, as well as how the roles played by a plant's flower structure, nectar production, and fragrance. We will also identify, count, and record the pollinators we see—at NYBG and in Bear Mountain State Park's Native Plant Garden. Transportation to Bear Mountain and back will be provided.

2 Thursdays, 8/6 & 8/13, 10 am–1 pm
Alan Wells, Ph.D. | NYBG | 211NAT325

\$145/\$159 *Certificate Elective*

MOSS IDENTIFICATION

Take advantage of this special opportunity to immerse yourself in the world of mosses with Dr. Keith Bowman, who studied and co-taught with esteemed bryologist Dr. Robin Wall Kimmerer. Use microscopes to observe how mosses differ on a cellular level. Learn to distinguish particular species within common moss genera, including *Hypnum* and *Dicranium*. You'll also venture onto Garden grounds to find these ancient plants in their own territory to better understand their ecology.

Wednesday–Friday, 8/19–8/21, 10 am–1 pm
Keith Bowman | NYBG | 211BOT310

\$295/\$325 *Certificate Elective*

FOREST ECOLOGY

Explore the basic principles that influence the ecological relationships of the forest ecosystem. Using the Garden grounds as a site for observation and field study, learn to understand the forces that shape our natural environment—the Northeast Woodland. Labs and lectures provide an experience that expands your skills for the stewardship of plants. Dress for the weather.

4 Wednesdays, 8/26–9/16, 5:30–8:30 pm
Stephanie Schmiege | NYBG | 211BOT326

\$295/\$325 *Certificate Elective*

NEW! THE ECOSYSTEMS OF NEW YORK CITY

The tri-state area contains many distinct ecosystems, including woodlands, salt marshes, meadows, and fresh water wetlands. Study the unique characteristics of local habitats and the species they support, paying close attention to interspecies relationships. We'll spend time on Garden grounds and in Pelham Bay Park to identify and document the web of relationships found in NYC's forests and wetland areas. **P** Prerequisite: *Native Flora* and *Natural History of Birds*

3 Saturdays, 10/3–10/24 (no class 10/10),
11 am–2 pm
Karla Risdon-Nugent | NYBG & Pelham Bay Park
212NAT337

\$225/\$245 *Certificate Requirement*

NATIVE FLORA IN AUTUMN

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

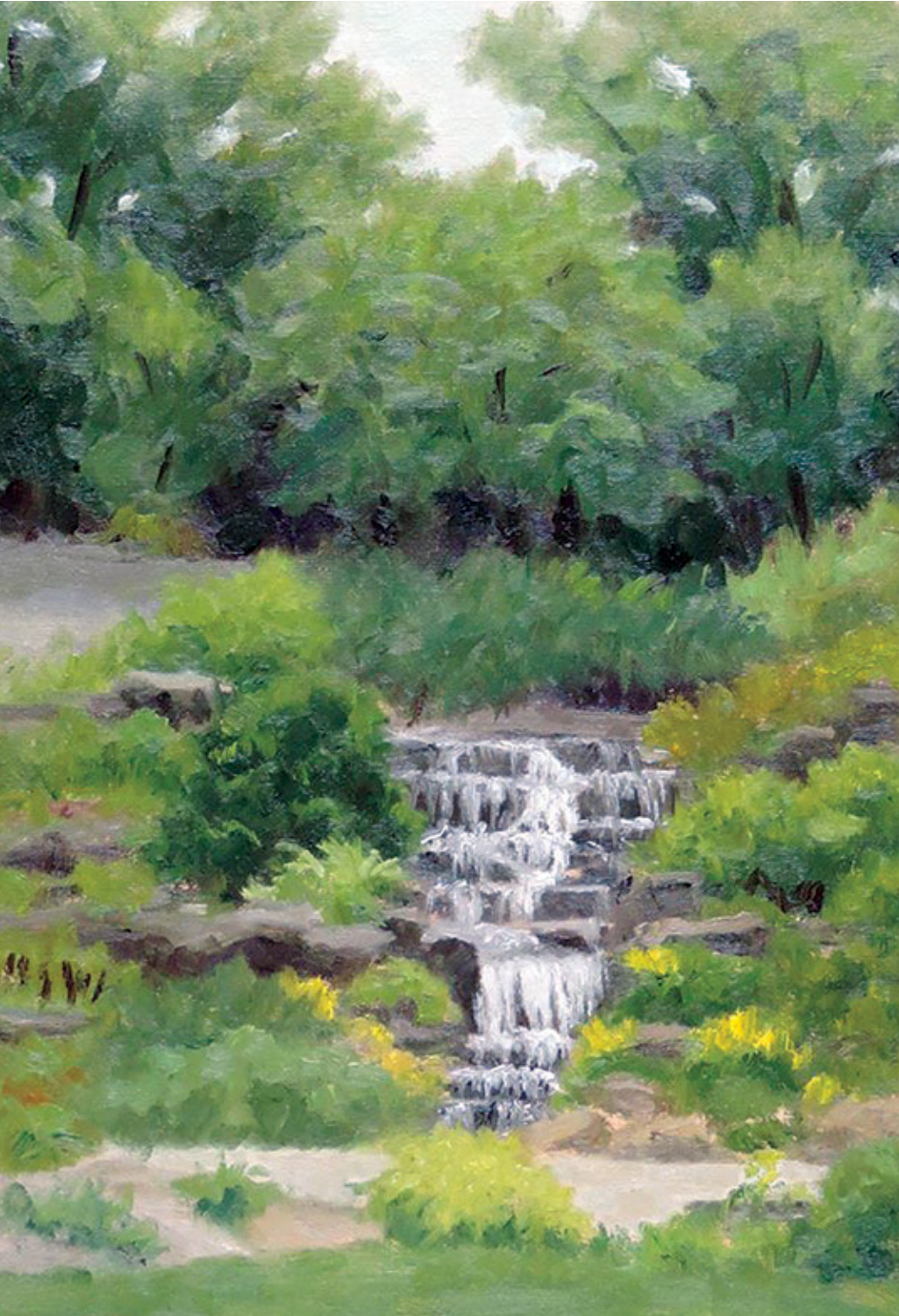
4 Thursdays, 9/17–10/8, 10 am–1 pm
Nancy Slowik | NYBG | 211BOT331A

4 Saturdays, 9/26–10/24 (no class 10/10), 10 am–1 pm
Clara Holmes | Manhattan | 211BOT331B

\$295/\$325 *Certificate Requirement*

Wellness

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



MEDICAL CANNABIS

Some 29 states have legalized the medical use of marijuana. Proponents tout it as a safe, effective treatment for symptoms of cancer, HIV, MS, Parkinson's, and other conditions—while opponents see many physical and social risks. Explore the science behind this controversial plant, as Dr. Dahmer takes you through a brief history of the endocannabinoid system, its effects on the brain, its associated risks and disorders, and an overview of medical cannabis—today and in the future—in New York and across the country.

Thursday, 3/12, 6–7:30 pm
Stephen Dahmer, M.D. | Manhattan | 203WEL128B
\$35/\$39

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, 4/4–6/6 (no class 4/11 & 5/23), 10–11 am
Robert Torres | NYBG | 204WEL102
\$119/\$129

NEW! SPRING SKINCARE

As winter turns to spring your skin needs a boost! Learn how to combine herbal properties with aromatherapy to create personalized, botanically based products. We will make herb-infused oils, water infusions and decoctions, extracts, and aromatherapy blends to be used for skincare. You'll also see a demonstration of how to make an essential oil, a hydrosol, and a flower essence.

Sunday, 4/26, 11 am–3 pm
Elizabeth Scholl | NYBG | 204WEL157
\$115/\$125

ESSENTIAL OIL PERFUME WORKSHOP

Perfume can be traced back thousands of years to an Ancient Egyptian tradition, beloved by Cleopatra. Discover the history of perfume and the therapeutic benefits of essential oils in this hands-on workshop. Learn scent-blending techniques and how to identify and keep perfume notes. Formulate three unique signature scents using wax, carrier oils, and essential oils, and take home one solid perfume, a 2-oz. aromatherapy spray, and a roll-on perfume.

Saturday, 4/4, 11 am–2 pm
Ursula Basch | Manhattan | 204WEL134A

Saturday, 6/20, 11 am–2 pm
Karine Gordineer | NYBG | 204WEL134B

Tuesday, 7/21, 6–9 pm
Ursula Basch | Manhattan | 211WEL134C

\$95/\$105

CANDLEMAKING WITH ESSENTIAL OILS

Freshen your home while experiencing the soothing benefits of essential oils. Create custom-scented aromatherapy soy candles using essential oils to invigorate, calm, or heal. Learn the differences between petroleum-based paraffin candles and synthetic essential oil candles commonly sold in stores. Create and take home two 4-oz. container candles and two 3-oz. votive candles.

Saturday, 5/9, 11 am–2 pm
Karine Gordineer | NYBG | 204WEL138A

Saturday, 8/15, 11 am–2 pm
Amy Anthony | Manhattan | 211WEL138B

\$95/\$105

BUILD A HERBAL FIRST AID KIT

Use herbal skills and recipes to treat many of life's little mishaps. Herbalist Dawn Petter will cover which herbs to keep on hand and how best to use them. She'll also demonstrate how to blend various herbs to produce balms, creams, and poultices. Under her expert guidance, you will make your own herbal remedies: a salve to relieve the itch of bug bites and stings and a soothing topical infusion for bruises, pain, and sore muscles.

Wednesday, 5/6, 6:30–8:30 pm
Dawn Petter | NYBG | 204WEL221

\$65/\$69

SOAPMAKING WORKSHOP

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

Sunday, 5/17, 11 am–2 pm
Elizabeth Scholl | NYBG | 204WEL143A

Sunday, 8/2, 11 am–2 pm
Elizabeth Scholl | NYBG | 211WEL143B

\$115/\$125

NEW! The Healing Power of Mushrooms

A pioneer in integrative medicine and one of the "world's 100 most influential people" according to *TIME*, Dr. Andrew Weil discusses the health benefits of mushrooms. He'll share recent findings that

suggest select fungi—from maitake and reishi to cordyceps and lion's mane—can strengthen the immune system, increase resistance to stress, and inhibit the growth of some malignant tumors. See page 3 for details.

Wednesday, 5/27, 11 am–12 pm
Andrew Weil | Ross Hall, NYBG | 204WEL804

\$25/\$29

NEW! MEDICINAL MUSHROOMS: FUNGI FOR A HEALTHY BODY, MIND, AND PLANET

Emerging research suggests that mushrooms may be beneficial for brain and nerve health. Discover the properties of different species and learn where medicinal mushrooms occur locally. We'll also discuss how fungi have been used to clean up toxins in the environment by filtering water and removing heavy metals from soil. Find out how mushrooms can benefit your body and the planet. Sample extracts and make your own tincture to take home in this hands-on workshop.

Saturday, 6/20, 11 am–12:30 pm
John Michelotti | Manhattan | 204WEL181A

Tuesday, 7/28, 11 am–12:30 pm
John Michelotti | NYBG | 211WEL181B

\$65/\$69

FOREST BATHING

When surrounded by the tranquil beauty of nature, the mind naturally becomes quiet and peaceful. You'll learn basic meditation techniques to help you slow down and awaken your senses. Our instructors draw from the Japanese practice of Shinrin-Yoku, as well as Buddhist meditation. Connect more deeply to nature as you practice sitting and walking meditation in NYBG's Thain Family Forest.

Friday, 5/22, 10 am–12 pm
Nicole Joy Elmgart | NYBG | 204WEL145A

Tuesday, 7/7, 10 am–12 pm
Ayyā Somā | NYBG | 211WEL145B

Tuesday, 9/22, 10 am–12 pm
Bhante Suddhaso | NYBG | 211WEL145C

\$55/\$59

GUT HEALTH: THE KEY TO YOUR IMMUNE SYSTEM

Your digestive system is home to over 70% of your immune system! So keeping your gut in tip-top shape is crucial to maintaining good health. We will examine the difference between good and bad bacteria and explore how each affects your energy level, skin, and overall health. We'll focus on how to strengthen your digestion and create better eating habits, including by introducing fermented foods and herbal medicine into your diet.

Tuesday, 6/9, 6:30–8:30 pm
Cheryl Paswater | Manhattan | 204WEL215

\$45/\$49

NEW! ALL-NATURAL HAIR CARE

Learn how to naturally care for hair from the inside out! Join Herbalist Karine Gordineer as she shares which nutrients and vitamins are essential and how herbs can help nourish our hair. In this hands-on workshop, you will make a hair rinse and oil to take home.

Saturday, 7/18, 11 am–1 pm
Karine Gordineer | NYBG | 211WEL160

\$95/\$105

Wellness classes are presented for informational purposes only and are not intended for self-medication.

Herbal Saturday



May 9 | Midtown Education Center, Manhattan

Herbs have been helping us stay healthy for thousands of years. Spend a day with herbal experts and earn how plants can be used for medicine, aroma, and refreshment.

10:30 am–12 pm

INTRO TO HERBAL MEDICINE

Are you interested in bringing the natural benefits of herbs and herbal remedies into your life? Discover the differences between herbal medicine and homeopathy, the three major branches of herbalism, and the fascinating history of herbal medicine. Learn how to choose and store herbs, how to properly take herbal medicines, and how to make and use several common herbal remedies that help reduce stress.

Ursula Basch | 204WEL130B | \$65/\$69

12:45–2:15 pm

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.

Ursula Basch | 204WEL130C | \$79/\$85

2:30–4:30 pm

GROWING A HERBAL GARDEN

No more shopping at the market for basil and thyme! Learn how to create your own aromatic mini-garden with fresh herbs that you can enjoy year-round. Whether you're growing indoors or outdoors, learn which herbs are easiest to maintain, most beneficial in use, and most popular in the gardening world.

Colin Wright | 204WEL130D | \$65/\$69

All Three Sections: 204WEL130A | \$175/\$195

ACADEMIC POLICIES & PROCEDURES

GENERAL COURSE INFORMATION

COURSE LEVELS

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

COURSES WITH PREREQUISITES

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

WORK-STUDY OPPORTUNITIES

For information about work-study opportunities with Adult Education, please call 718.817.8802.

SCHOOL POLICIES FOR CERTIFICATE PROGRAMS

The Director and Program Coordinators formulate policy regarding standards of student performance, including awarding Certificates, rules of conduct, and student appeals. Please contact the Director with any questions or concerns at 718.817.8595.

Satisfactory Academic Progress Policy:

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

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

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

Grades are available via your online student account. Call 718.817.8747 for help creating an online account, to receive grades over the phone, or request a transcript.

All incomplete grades will be converted to an F within 4 weeks if work is not completed by then. A student must repeat a course and earn a passing grade in order to receive a Certificate; additional course materials will be charged at cost.

Previous Education Credit

A student may qualify for course exemption through:

- College courses taken for degree credit from an accredited college or university
- Evaluated non-collegiate sponsored instruction
- Proficiency exams

To be exempt from a required course, you must complete the Course Exemption Request Form, present transcripts showing an earned grade of C or higher, and present the course outline and/or relevant supporting documentation. The School will evaluate these submissions and make a decision. If exempted from the course, you must take an equal number of hours of approved elective course(s).

Attendance

On-time attendance is required at all classes. Unexcused tardiness and absences are not accepted, unless due to an emergency, including serious illness or death within a student's family. Absences should be reported to the Registration Office at 718.817.8720 and will be evaluated on a case-by-case basis. Students must request makeup tests, which will be scheduled at the instructor's discretion. Deficiency in any required work resulting from absence from class must be made up at the student's own expense to satisfy the instructor.

Student Work

Students have 8 weeks following the last day of class to pick up any work left by instructors at the Registration Office. After that time, unclaimed assignments will be discarded.

Certificate Requirements

Certificate requirements are those stated in the catalog from which the student first registered for a Certificate course.

To qualify for a Certificate, students must receive passing grades in all required courses.

Students have 6 years from the start of their first required course to complete a Certificate.

Certificate Graduation Ceremony

The 2020 ceremony will be held on Sunday, June 7. If you expect to complete your Certificate requirements or enroll in all remaining classes by June this year, you must inform the Manager of Student Services in writing at adultedgraduation@nybg.org by March 27. You will be informed if you are eligible for a Certificate by April 20. Call the Registration Office at 718.817.8747 with any questions.

Transcripts

Official (\$4 each) and unofficial transcripts (free) are available from the Registration Office. Request an official transcript in writing, including the name and address of the institution to which the transcript should be mailed. Transcripts will be mailed within 2 weeks, with a copy sent to the student.

Privacy

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

STATE LICENSING AND ACCREDITATION

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

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

To file a complaint, students should write to the New York State Education Department's Bureau of Proprietary School Supervision at 116 West 32nd Street, 5th Floor, New York, NY 10001, or call the Department at 212.643.4760, requesting an interview for the purpose of filing a written complaint. All relevant documents must be brought to the interview. If you cannot attend an interview, send a letter or call the Bureau to request a complaint form. You must complete and sign the form and mail it to the Bureau, including copies of all relevant documents. The Bureau cannot investigate any complaint made more than 2 years after the date of alleged occurrence.

Disclaimer

Content of courses and opinions expressed by instructors are their own and do not necessarily reflect the opinions or views of The New York Botanical Garden. The information provided does not, and is not intended to, constitute legal advice. No representation is made that any information provided constitutes the most up-to-date legal or other information.

CONTINUING EDUCATION UNITS, PROFESSIONAL SOCIETIES, & ACADEMIC PROGRAMS

Continuing Education Units (CEUs)

APLD and ASLA Members: Don't miss out! Get CEUs for many of our lectures. Events offering CEUs are noted in the catalog or on the individual event listing pages at nybg.org/adulted with your organization's logo.



Tri-State Botanical Artists of NYBG (TSBA)

The Tri-State Botanical Artists of NYBG (TSBA) is a lively group of over 40 artists who meet to engage in critiques, monthly art challenges, a sketchbook exchange, and topical discussions. We invite all current Certificate students and alumni to join us! TSBA is recognized as an ASBA Circle. Meetings are free and held once a month at NYBG. Please contact Jeanne Reiner reinerj@hotmail.com or Susan Sapanara ssapanara@gmail.com for more information.

Landscape Design Students and Alumni Association (LDSA)

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

American Horticultural Therapy Association (AHTA)

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

American Institute of Floral Designers (AIFD)

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

American Society of Botanical Artists (ASBA)

ASBA is a non-profit organization of more than 1,300 members throughout the US and in 20 other countries. Dedicated to promoting awareness of contemporary botanical art, ASBA provides educational opportunities through its annual conference and quarterly journal, *The Botanical Artist*. ASBA maintains their headquarters at NYBG on the third floor of the Watson Education Building. ASBA brings the best of contemporary botanical art to the public by curating the NYBG Triennial and other exhibitions. For membership and more information visit asba-art.org

Association of Professional Landscape Designers (APLD)

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

Department of Environmental Conservation (DEC)

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

The Guild of Natural Science Illustrators (GNSI)

The Guild is an international organization whose members strive to maintain and further the field, assist others in entering it, and encourage high standards of competence. The New York Chapter meets bimonthly, usually at NYBG. For more information visit gnsi.org

International Society of Arboriculture (ISA)

ISA is a worldwide network of professional arborists who foster a greater awareness of the benefits of trees, and promote the professional practice of arboriculture. For more information visit isa-arbor.com

Northeast Organic Farming Association (NOFA)

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

The New York Botanical Garden & Bronx Community College Associate Degree Program

NYBG and Bronx Community College of The City University of New York offer an Associate Degree program. The first year of the program is offered at BCC where students take academic courses. The second year is spent at NYBG, where students take academic courses and work in horticulture. For more information, contact NYBG at 718.817.8747 or Adijat Adebola at adijat.adebola@bcc.cuny.edu or 718.289.5538.



SCHOOL OF PROFESSIONAL HORTICULTURE

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

As a student in the School of Professional Horticulture you:

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

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

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

MIDTOWN EDUCATION CENTER

20 West 44th Street



BOTANICAL ART & ILLUSTRATION Page

3/3	5:30 pm	Botanical Drawing for Beginners	6
3/4	6 pm	Botanical Drawing II	7
3/9	10 am	Botanical Watercolor for Beginners	6
3/21	10 am	Feathers and Fur	8
3/26	5:30 pm	Botanical Drawing I	7
4/14	6 pm	Botanical Drawing for Beginners	6
4/20	5:30 pm	Botanical Drawing III	7
4/25	10 am	Spring Tulips in Watercolor Workshop	8
5/2	10:30 am	Botanical Watercolor I	8
5/4	10 am	Botanical Watercolor for Beginners	6
5/14	5:30 pm	Botanical Drawing II	7
6/22	10 am	Botanical Watercolor for Beginners	6
7/7	10 am	Botanical Drawing I	7
7/11	10 am	Peaches Watercolor Workshop	8
7/18	10 am	Aromatic Mints	9
9/14	5:30 pm	Botanical Watercolor I	8
9/15	6 pm	Botanical Drawing I	7
9/17	5:30 pm	Botanical Drawing III	7
9/30	6 pm	Botanical Drawing for Beginners	6
10/19	10 am	Botanical Watercolor for Beginners	6

BOTANY Page

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4/25	10 am	Native Flora in Spring	12
4/27	10 am	Spring Mushrooms	12
5/6	6 pm	The Science of Tree Communication	12
7/11	10 am	Basic Plant ID	12
7/23	6 pm	Microscope Basics	13
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CRAFTS Page

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6/24	11 am	Kusudama Origami	15
8/5	6:30 pm	Friends' Night Out: Spring Wildflowers	14
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8/15	10 am	Fantasy Flower Mosaics	15
8/19	6:30 pm	Drawing Patterns in Nature	15

FLORAL DESIGN Page

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3/23	6:15 pm	Color Theory for Floral Designers	21
3/26	6 pm	Simple and Sleek Floral Design Ideas	18
4/1	6 pm	Flower Arranging with Store-Bought Bouquets	18
4/7	6:15 pm	Wedding Design II	20
4/20	6:15 pm	Fundamentals of Form	20
5/7	6:15 pm	Flower ID from A to Z	21
5/19	6 pm	Simple and Sleek Floral Design Ideas	18
6/2	6:15 pm	Color Theory for Floral Designers	21
6/6	10 am	Ikebana: A Comprehensive Approach	19
6/23	6 pm	Flower Arranging with Store-Bought Bouquets	18

FLORAL DESIGN (cont.) Page

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7/13	11 am	Fundamentals of Form	20
7/20	11 am	Fundamentals of Style	20
7/27	11 am	Wedding Design I	20
8/8	11 am	Prop Styling with Botanicals	19
8/11	6 pm	Materials as Muse: Making Art with Flowers	19
9/14	6 pm	Flower Arranging with Store-Bought Bouquets	18
9/15	6:15 pm	Fundamentals of Form	20

FOOD & DRINK Page

3/10	6 pm	The Wonders of Agave: Tequilas, Raicilla, Mezcal, and Sotols	22
6/3	6:15 pm	Grow Gourmet Mushrooms Indoors	23
7/9	6 pm	Botanical Mixology 101	22

GARDENING Page

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3/9	6:15 pm	Botanical Latin	29
3/11	6 pm	Soil Science for Gardeners	29
3/14	12 pm	Intensive Growing Techniques for Homegrown Edibles	28
3/14	11 am	Gardening with Native Plants	29
3/19	6:30 pm	Meet the New Gardeners-An Evening with Daryl Beyers and Farmer Nick	—
3/21	10 am	Indoor Tropicals	27
3/26	6 pm	Vertical Gardening: Vines and Climbers	26
3/31	6 pm	Fundamentals of Gardening	29
4/13	6 pm	Plant Propagation for the Home Gardener	27
4/18	10:30 am	Perennial Plant Combinations	26
4/22	6:15 pm	Rooftop Gardening	28
4/23	6 pm	Mastering the Art of Tomato Gardening	28
4/28	6 pm	Super Small Space Veggie Gardening	28
5/4	6:15 pm	Fundamentals of Garden Design	29
5/16	10 am	All About Containers Saturday	31
5/30	10 am	Indoor Tropicals	27
6/13	10 am	Terrace Gardening Saturday	31
6/27	10 am	Bonsai for Beginners Workshop	27
7/14	6 pm	Fundamentals of Gardening	29
7/18	10 am	Container Gardening	27
8/4	6 pm	Plant Propagation for the Home Gardener	27
8/5	6 pm	Soil Science for Gardeners	29
9/14	6 pm	Fundamentals of Gardening	29
9/23	6 pm	Mastering the Art of Tomato Gardening	28

HORTICULTURE Page

4/18	10 am	Introduction to Plant Science	35
5/4	6 pm	Introduction to Plant Science	35
6/10	6 pm	Soil Science I	35
7/7	6 pm	Plant Propagation I	37
7/27	6 pm	Introduction to Plant Science	35
8/22	9 am	Plant Communities Workshop	34
9/12	10 am	Introduction to Plant Science	35

HORTICULTURAL THERAPY Page

3/11	6 pm	Garden Design for Special Populations	40
5/30	10 am	Introduction to Horticultural Therapy	40

LANDSCAPE DESIGN Page

3/7	10 am	Building a Green Wall	27
3/31	6:15 pm	Landscape Design History	44
5/13	6:15 pm	Landscape Design I	45
7/6	6 pm	Graphics I	45
7/23	6:15 pm	Intro to Landscape Design	44
9/15	6:15 pm	Intro to Landscape Design	44
9/21	6 pm	Green Roof Design	44
10/1	6 pm	Graphics I	45
10/6	6:15 pm	Landscape Design History	44

PHOTOGRAPHY Page

8/8	11 am	Prop Styling with Botanicals	46
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URBAN NATURALIST Page

4/18	9:30 am	Natural History of Birds: Spring	50
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WELLNESS Page

3/12	6 pm	Medical Cannabis	52
4/4	11 am	Essential Oil Perfume Workshop	52
5/9	10:30 am	Herbal Saturday	53
6/9	6:30 pm	Gut Health: The Key to your Immune System	53
6/20	11 am	Medicinal Mushrooms	53
7/21	6 pm	Essential Oil Perfume Workshop	52
8/15	11 am	Candlemaking with Essential Oils	53

NEW CANAAN NATURE CENTER

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

3/5	10 am	Intro to Landscape Design	27
4/7	10:30 am	Farm to Table: Spring Bulb Centerpiece	18
4/14	10 am	Fundamentals of Gardening	29
5/5	10:30 am	Pink Peonies: Contemporary Tabletop Design	18
5/12	10 am	Plants for Landscaping	35
5/30	10 am	Vegetable Gardener's Saturday	30
6/2	10:30 am	Antique Roses and Ferns: A Modern Take	19

REGISTRATION

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

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

Confirmations Registration confirmations will be sent same day via email.

GENERAL INFORMATION

Entrance to the Garden on Class Days You must bring your printed confirmation letter for admission to the Garden, and present it at the Mosholu Entrance to gain admittance and free parking.

Storm Closings *Class cancellations due to inclement weather will be rescheduled.*

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

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

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

- If you must withdraw fewer than ten days before the first class meeting:
- No refunds will be granted for course levels 0–299 and 700–999
- *A 75% refund minus a \$10 processing fee will be granted for course levels 300–699*
Please note: Floral Design materials fees will not be refunded fewer than 5 business days before class begins.

Holidays *NYBG observes the following 10 holidays:*

New Year's Day; Martin Luther King, Jr. Day; Presidents' Day; Memorial Day; Independence Day; Labor Day; Columbus Day; Thanksgiving and the following Friday (Veterans' Day observance); and Christmas

Accessibility The New York Botanical Garden is accessible to persons with disabilities. Please ask about special needs accommodations when you register or visit nybg.org for more information.

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

Library The LuEsther T. Mertz Library keeps Adult Education required reading on reserve, has study space with WiFi available, and offers help with class assignments. Visit nybg.org/library or contact libref@nybg.org for more information.



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

REGISTRATION IS EASY!

Web

Register online at nybg.org/adulted

Phone

718.817.8747 Registration Office
M–F 9 am–5 pm

In Person

Drop by the Registration Office in the Watson Education Building, Room 306, or at the Midtown Education Center.

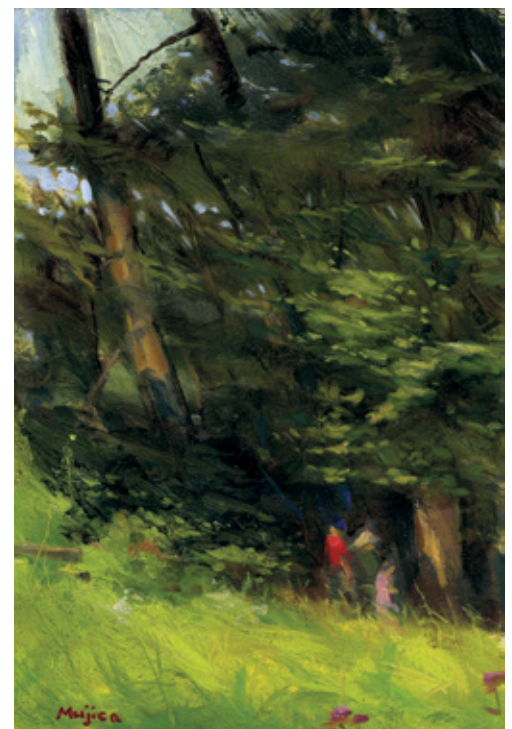
The Garden | *Quick and easy to reach*
Bronx River Parkway (Exit 7W)

 Metro-North Railroad to Botanical Garden Station



Midtown Education Center | Two blocks from Grand Central Terminal

20 West 44th Street, between 5th and 6th Avenues; 212.302.2054



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New York Botanical Garden
2900 Southern Boulevard
Bronx, New York 10458-5126
Address Service Requested



Step Into Spring 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.

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.

©Samantha Dion Baker, *A Day at the Garden*, Watercolor



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.



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