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
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.

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.

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!

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.

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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.


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

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 Guilt: 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.

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.

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.

Dr. Andrew Weil has developed a lifelong fascination with mushrooms as a source of flavor, medicinal value, and ability to break down environmental toxins. His presentation will debunk old myths and share recent findings that suggest safe new approaches for our health and the health of our planet.

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.
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.

Illustration: Harlequin Mix Morning Glory, ©Gaye Grossman, 2019 Graduate

“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.
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 benefit from the class.

Guidelines can be obtained from the Registration Office.

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

CERTIFICATE REQUIREMENTS

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

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<td>Botanical Drawing II: Developing Your Skills</td>
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<tr>
<td>The Basics of Visual Composition (should be completed early)</td>
<td>BIL 421</td>
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<td>Botanical Drawing III: Focus on Flowers</td>
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<td>Plant Morphology for Botanical Artists</td>
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<tr>
<td>Practical Aspects of Botanical Art**</td>
<td>BIL 392</td>
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Plus one of the following:
- Internet Tools for Creatives, Part I: Social Media** | BIL 394 | 5    | —   |
- Internet Tools for Creatives, Part II: Website** | BIL 395 | 7    | —   |
- Pen and Ink | BIL 400 | 18    | 8    |
- Colored Pencil | BIL 415 | 18    | 7    |
- Elective courses |  | 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.

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<th>Course</th>
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<td>Ink Wash Techniques</td>
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<td>Refined Graphite Rendering</td>
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<tr>
<td>Painting Flowers in Gouache with James Gurney</td>
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<tr>
<td>The Secrets of Making Color Glow</td>
<td>BIL 637</td>
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**Courses offered in the Fall-Winter Catalog

***Plus a final project that meets Certificate standards

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.
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
5 Fridays, 9/18–10/23 (no class 10/16), 10 am–1:35 pm
Kathe 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.


Thursday, 6/4, 10 am–4 pm
James Gurney | NYBG | 204BIL497
$219/$245 Certificate Elective

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

**CHERIES**
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  
Certification 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  
Certification 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  
  Katie Miranda | Manhattan | 203BIL322

$359/$395  
Certificate Elective

**NEW! PAINTING ORCHARDS**
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! GOLF INK**
Strike gold and take your pen and ink drawings to a new level. See how easily 18-carat-gold liquid Spectraflite 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 Watercolor I
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

Illustration top: Tulipa 'Black Parrot', ©Mary Dillon, NYBG Instructor
Illustration bottom: Papaver 'Falling Apart', ©Fiona Strickland, NYBG Instructor
Botany
Do you have a desire to get closer to nature? Take a botany class and gain a deeper understanding of how plants connect us to the natural world. Botanical studies explore all aspects of plant growth and development, plant communities, and the role of plants in ecosystems. At the everyday level, botany can be your gateway to herbal healing, 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

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<td>Plant Physiology**</td>
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<td>Herbaceous Plant Identification</td>
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ELECTIVES

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<td>The Origin of Trees</td>
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<td>The Secrets of Plants DNA</td>
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<td>Paleobotany: The Origin of Plants</td>
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<td>How Carbon Sinks Work</td>
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*Course hours do not include exam hours
**Courses offered in the Fall-Winter Catalog
P Courses with a prerequisite before you can register

“Allove 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

REGISTER ONLINE AT NYBG.ORG/ADULTED OR CALL 800.322.NYBG (6924)
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 | 203B0T346B

Saturday, 9/12, 11 am–3:30 pm
Amy Anthony | NYBG | 211B0T346A

$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 | 203B0T431S

$395/$435 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 | 203B0T315B

9 Thursdays, 9/17–11/12, 10 am–1 pm
Steve Kutos | Manhattan | 211B0T315P

$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 | 204B0T385A

2 Wednesdays, 5/6 & 5/13, 6–9 pm
Steve Kutos | Manhattan | 204B0T385B

$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 | 204B0T330A

2 Mondays, 4/27 & 5/4, 10 am–1 pm
Paul Sadowski | Manhattan | 204B0T330B

$145/$159 Certificate Elective

NATIVE FLORA IN SPRING
Our native wildflowers, trees, and shrubs signal the awakening of the season. Join us as we travel throughout the world of plants.

9 Thursdays, 3/19–5/14, 5–8 pm
Nicole Fusco | NYBG | 203B0T315B

9 Thursdays, 9/17–11/12, 10 am–1 pm
Steve Kutos | Manhattan | 211B0T315P

$559/$615 Certificate Requirement

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 | 211B0T311

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 | 211B0T320

Each section: $75/$85 Certificate Elective
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 | 2048BOT376
$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. ☑ Prerequisite: Plant Structure
9 Mondays, 4/27–6/29 (no class 5/25), 5–8 pm
Jamie Boyer, Ph.D. | NYBG | 2048BOT317S
$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 | 2048BOT376
$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 | 2048BOT334
$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 Schmiege | 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. ☑ Prerequisite: Plant Diversity
8 Tuesdays, 9/8–10/27 (no class 10/10), 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
$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.
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 | 2048BOT389
$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 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

Exam on last class date
Crafts & DIY

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

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

©Denise Dumont, Spring in the Rock Garden, Oil on canvas
NEW! FOREST SOUNDSCAPES WITH ANGÉLICA NEGRÓN
Create a soundscape that gives voice to the natural world. Composer Angélica Negrón, 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 Negrón | 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
$95/$115

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
$79/$85

NEW! WILLLOW BASKETRY
Hand-woven willow baskets bring a touch of rustic yet elegant beauty to your home. Jesica 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
Jesica Clarke | NYBG | 211CRF285
$175/$189

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

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
$175/$189

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.

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

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

“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

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**

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**ELECTIVES**

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Courses with a prerequisite before you can register.


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**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 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

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**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**

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

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

“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

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

The Cutting Edge  A Floral Design Series

PHOTO: COURTESY BRRCH / PHOTO BY RICHIE TALBOY
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, 10:30 am–4 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.

Prerequisite: Fundamentals of Form

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

Wednesday, 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.

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.

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

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.

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

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 booksigning to follow.

Thursday, February 20, 11 am–12 pm | Jeff Leatham
203FDN928 | Ross Hall, NYBG | $25/$29
COLOR THEORY FOR FLORAL DESIGN
Colors—like flowers themselves—evolve 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 Tuesday, 6/2–6/16, 6:15–8:55 pm | Nsombi Woodson | Manhattan | 204FDN306B

$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 foliages. 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 | NYBG | 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 tablescapes. $185 materials fee. | Prerequisite: Fundamentals of Form
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. | Prerequisite: Fundamentals of Form
Wednesday, 3/11, 10 am–4:30 pm | Bessie Mendler | 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. | 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)


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 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.

Mistakes and celebrations are no accident. They are the result of a deliberate and carefully thought-out plan. A wedding is the first time a couple is expected to ‘act out’ the roles of husband and wife. | Prerequisite: Fundamentals of Form
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)

REGISTER ONLINE AT NYBG.ORG/ADULTED OR CALL 800.322.NYBG (6924)
THE WONDERS OF AGAVE: TEQUILAS, RACILLA, MEZCALS, 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
Preserving Mushrooms

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

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

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

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

CERTIFICATE REQUIREMENTS

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ELECTIVES

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**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.
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 now-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 all four seasons.

2 Sundays, 3/15 & 3/22, 10 am–2:30 pm  
Daryl Beyers | NYBG | 204GAR327B

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 | NYBG | 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 | 204GAR329
$55/$65 Certificate Elective

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

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

Illustration: Ornamental Gourd, Cucurbita pepo, ©Tammy McEntee, 2018 Graduate
CERTIFICATE CLASSES
Open to Non-Certificate students

FUNDAMENTALS OF GARDEN DESIGN
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 | 204GAR301A

4 Fridays, 4/3–5/1, 6:15–9:15 pm
Manny Grossman | 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 | 211GAR360A

$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

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
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

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 plants 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: $99/$109
NYBG | 204GAR226A
Manhattan | 204GAR226B

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, REPOP, 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. BYOY 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 to 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:

<table>
<thead>
<tr>
<th>TRACK 1: PLANT PRODUCTION</th>
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<tr>
<td>Gain the skills to propagate and produce an array of native and non-native plants for nurseries, garden centers, and landscape-restoration projects.</td>
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<tr>
<th>TRACK 2: SUSTAINABLE LANDSCAPE MANAGEMENT</th>
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<td>Understand landscape maintenance and management practices using the concept “right plant—right place” in residential and commercial landscapes.</td>
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<th>TRACK 3: ARBORICULTURE</th>
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<td>Know how to grow, prune, care for, and manage trees in parks, residential sites, and urban environments.</td>
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<th>TRACK 4: SUSTAINABLE GARDEN DESIGN</th>
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<td>Be able to design small-scale gardens for homes, communities, and private clients.</td>
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CERTIFICATE REQUIREMENTS

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Hours*</th>
<th>Page</th>
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<tbody>
<tr>
<td>Introduction to Plant Science</td>
<td>HRT 300</td>
<td>16</td>
<td>35</td>
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<tr>
<td>Soil Science I: Physical Properties</td>
<td>HRT 301</td>
<td>18</td>
<td>35</td>
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<tr>
<td>Soil Science II: Chemistry and Nutrition</td>
<td>HRT 302</td>
<td>18</td>
<td>35</td>
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<tr>
<td>Horticultural Techniques: Greenhouse Practices**</td>
<td>HRT 312</td>
<td>15</td>
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<tr>
<td>Insect Pests of Landscape Plants</td>
<td>HRT 381</td>
<td>18</td>
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<tr>
<td>Plant Propagation I: Basic Principles</td>
<td>HRT 411</td>
<td>18</td>
<td>37</td>
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<tr>
<td>Plant Propagation II: Applications**</td>
<td>HRT 412</td>
<td>16</td>
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<tr>
<td>Disease Identification &amp; Management</td>
<td>HRT 481</td>
<td>18</td>
<td>36</td>
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<tr>
<td>Nursery and Greenhouse Management**</td>
<td>HRT 491</td>
<td>24</td>
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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
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 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 season. You’ll get hands-on practice starting seeds to ensure you always have something fresh to cut. We will also cover traditional and unexpected annual and perennial cut flower species and varieties that grow well locally.

2 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 | 204HRT300A
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 | NYBG | 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 Paltsvea, Ph.D. | NYBG | 211HRT300H

SOIL SCIENCE I: PHYSICAL PROPERTIES

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 Paltsvea, 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 Paltsvea, Ph.D. | NYBG | 211HRT301C
$455/$495

SOIL SCIENCE II: CHEMISTRY AND NUTRITION

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.

Prerequisite: Soil Science I

7 Saturdays, 5/9–6/27 (no class 5/23), 10:30 am–1:30 pm
Anya Paltsvea, Ph.D. | NYBG | 204HRT302
$395/$445

LANDSCAPE PLANTS: BULBS

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

7 Wednesdays, 3/11–4/22, 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 | 204HRT342S
$295/$325

LANDSCAPE PLANTS: SPRING TREES AND SHRUBS

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 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

Prerequisite: Introduction to Plant Science

5 Tuesdays, 4/7–5/5
5 Fridays, 4/17–5/15, 10 am–1 pm
Michael Ruggiero | NYBG | 204HRT334D
$295/$325

SOIL SCIENCE III: NUTRITION

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 Paltsvea, 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 Paltsvea, Ph.D. | NYBG | 211HRT301C
$455/$495

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.  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. Prerequisite: Introduction to Plant Science
7 Tuesdays, 7/28–9/8, 4:30–7 pm
Eric Lieberman | NYBG | 211HRT336A
$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. 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 Simone | 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 Conway | NYBG | 204HRT417
3 Sundays, 8/9, 8/16, & 8/23 (rain date 8/30), 10 am–1 pm
Steven Conway | 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. 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. 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. 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. 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
Mabee 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. 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. Prerequisites: Introduction to Plant Science and Soil Science
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)
Mabee 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, 4/13–6/15 (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, 9/14–11/6, (no class 9/28 & 10/12), 5:45–8:45 pm
Mobee 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, doublecrotchting, 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

 Evela 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, examine the processes 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, pesticides, and herbicides. 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 to select 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)

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

REGISTER ONLINE AT NYBG.ORG/ADULTED OR CALL 800.322.NYBG (6924)
If you have a passion for plants and helping people, then pursue horticultural therapy and learn how to bring people and the natural environment together for healing purposes. Acquire the therapeutic skills and horticultural techniques needed to serve a broad population of people in need. Enroll in a single class or pursue a Horticultural Therapy Certificate.

THE CERTIFICATE PROGRAM

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

Upon completion of the program, students will:

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

SUMMER INTENSIVE CLASSES

June 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.

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<th>Introduction to Horticultural Therapy</th>
<th>Horticultural Therapy in Behavioral Health Settings</th>
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Horticultural Therapy for Older Adults

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

Horticultural Therapy for Physical Rehabilitation

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

Horticultural Therapy for Exceptional Youth

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

Activities Analysis for Horticultural Therapy

3 Saturdays, 7/11–7/25, 10 am–3:30 pm

Horticultural Therapy Methods and Materials

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

Garden Design for Special Populations

3 Fridays, 8/7–8/21, 10 am–3:30 pm

Horticultural Therapy Program Management

3 Saturdays, 8/8–8/22, 10 am–3:30 pm

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

“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 OOMEN, MLS (ASCP), Current Student

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.

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<td>Horticultural Therapy Methods and Materials</td>
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<td>Horticultural Therapy Program Management</td>
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TOTAL REQUIRED HOURS: 189

Site Visits

- NYU Langone Medical Center, Therapeutic Horticulture Services
- The HSNY’s Greenhouse Program on Rikers Island
- Cardinal Cooke Health Center
- Good Samaritan Regional Medical Center: The Garden of Hope
- Parker Health Group
- Bergen New Bridge Medical Center

Courses with a prerequisite before you can register

GARDEN DESIGN FOR SPECIAL POPULATIONS

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

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. 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. 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

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

1 Sunday, 8/2, 10 am–3:30 pm
Phyllis D’Amico, HTM, and John Beirne, HTR | NYBG | 211THR406A

$375/$415

Illustration: Cornus florida (detail), ©Margaret Farr
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.

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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 | 204THR528
$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 Jaroslow, 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!

“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

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*Course hours do not include exam hours
**Courses offered in the Fall–Winter Catalog
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 introductory 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 Novatol | 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, 10 am–1 pm (no class 5/8), 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

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 | 203LAN422B
8 Fridays, 3/16–5/4, 10 am–1 pm
Leslie Needham | NYBG | 211LAN422A

$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. 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

**LANDSCAPE DESIGN II: DESIGN DEVELOPMENT**

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

8 Wednesdays, 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. 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 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. Prerequisite: Graphics I

8 Wednesdays, 5/6–6/24, 10 am–1 pm
Gustavo Capparelli | NYBG | 204LAN411A
8 Tuesdays, 5/5–6/23, 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. 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 III: PLANTING DESIGN**

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

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. Prerequisite: Landscape Design III

5 Tuesdays, 3/10–4/7, 6:15–9:15 pm
Adam Molinski | NYBG | 203LAN55S
8 Fridays, 10/7–10/28, 10:15 am–1:15 pm
Jessica Zavaglia | NYBG | 212LAN48S

$295/$325 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. Prerequisite: Landscape Design III

4 Wednesdays, 10/7–10/28, 10:15 am–1:15 pm
Jessica Zavaglia | NYBG | 212LAN48S

$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. 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

**GRAPHICS III: HAND RENDERING**

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. Prerequisite: Graphics II

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

$595/$655 Certificate Requirement
Photography

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

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**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

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**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

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**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

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**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

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©Noel Darvie, Azalées, Oil
ADULT EDUCATION  PHOTOGRAPHY  |  47

**BOTANICAL BLUES: CYANOETYPE**
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
- $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
Urban Naturalist

© Ricky Mujica, Étude, Oil
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

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ELECTIVES

The following Naturalist courses—along with all Botany electives listed on pages 12 and 13—count toward the 30 required elective hours.

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<td>Spotlight on Bird Songs</td>
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<td>Night Callers: Bronx Bats</td>
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**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

© Lisa Whitmer
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

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

$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.

3 Thursdays, 4/18–5/21, (Rain date 5/28), 10 am–1 pm
Ken Chaya | NYBG & Central Park | 204NAT317A

$295/$325 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
Sketchbook image: ©Carolyn Smith, Current Student

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. 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 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. 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

Illustration: Woodland Wildflowers, ©Betsy Rogers-Knox, NYBG Instructor
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

©Noel Darvie, Rock Garden at NYBG, Oil
**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
Ayyá Somá | 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 your 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.

**FOREST BATHING**
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.

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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 programs 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 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/sohp or call 718.817.8797.
# FLORAL DESIGN (cont.)

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<td>Materials as Muse: Making Art with Flowers</td>
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# FOOD & DRINK

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# GARDENING

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<td>Soil Science for Gardeners</td>
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<td>Intensive Growing Techniques for Homegrown Edibles</td>
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<tr>
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<td>8/5</td>
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# CRAFTS

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# HORTICULTURE

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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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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.

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