

NYBG

ADULT EDUCATION | SPRING-SUMMER 2018



NEW YORK BOTANICAL GARDEN

Welcome to 2018!

NYBG Adult Education bursts into spring with a fresh take on gardens, art, and the great outdoors.

Choose from a bounty of new gardening classes beginning in March. Or get inspired by our exciting lineup of speakers that includes landscape designer Edwina von Gal, author Florence Williams (*The Nature Fix*) and renowned authors-scientists Peter Wohlleben (*The Hidden Life of Trees*) and Stefano Mancuso (*Plant Revolution*). Then as summer begins, come get the most out of the Garden's major exhibition, *Georgia O'Keeffe: Visions of Hawai'i*, with our engaging symposium, talks, and classes. We invite you to explore the catalog—you'll find courses in science, art, design, and urban nature that will expand your horizons, jump-start your career... or change your life!

We look forward to seeing you soon!

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.

COVER HERBARIUM SPECIMEN:

Family Gentianaceae
Species *Sabatia campestris*

Collector's Field Notes United States. Texas. Mason Co.: Hillis Fly Gap ranch. Rolling live oak woodland/grassland in sandy soil, sandstone and quartz rocks on slopes. Common in moist margins of pond.

David M. Hillis 03-497 31 May 2003

Scientific specimen in the William and Lynda Steere Herbarium at NYBG

Contents

2 Exhibition and Symposium

GEORGIA O'KEEFFE: VISIONS OF HAWAII

Georgia O'Keeffe and Hawai'i: A Sense of Place

3 Georgia O'Keeffe: A Creative Life

An Evening with Roxana Robinson and
Linda M. Grasso

3 Humanities Institute Symposium

PLANT INTELLIGENCE

Peter Wohlleben, author of *The Hidden
Life of Trees*, and Stefano Mancuso, author
of *Plant Revolution*

3 A Talk with Florence Williams THE NATURE FIX

5 Botanical Art & Illustration

11 Botany

14 Crafts & DIY

17 Floral Design

23 Gardening

31 Horticulture

37 Horticultural Therapy

41 Landscape Design

46 Photography

49 Urban Naturalist

52 Wellness

54 Academic Policies & Procedures

55 Professional Societies, CEUs, & Academic Programs

56 Classes at Midtown Education Center and New Canaan Nature Center

inside back cover Registration & General Information

ABOUT THE COVER: The preserved Texas star wildflowers on our cover come from NYBG's William and Lynda Steere Herbarium—a priceless botanical archive of 7.8 million plant specimens, and a digital resource for scientists around the world.

Herbarium specimens are dried and pressed plants that botanists use as permanent records of their research. Each one displays unique information on who collected it, where, and when. It must include all elements necessary for plant identification (e.g., flowers, fruits, leaves) and be laid out properly to showcase those features. The results are frequently very beautiful, and when cared for properly, can theoretically last forever.





Symposium

GEORGIA O'KEEFFE AND HAWAII: A SENSE OF PLACE

Friday, May 18, 10:30 am
Ross Hall, NYBG

Moderated by curator Theresa Papanikolas, this distinguished panel explores the importance of landscape as Georgia O'Keeffe's creative refuge, inspiration, and source of restorative power.

In New York, Texas, New Mexico, Hawai'i—at every stage of her personal and artistic life—O'Keeffe's work reflected the powerful influence of the natural environment that surrounded her. And in Hawai'i, O'Keeffe encountered not just a dramatic, exotic landscape, but a culture with a deeply felt identity based on the connections among people, plants, and place.

Theresa Papanikolas, Ph.D. Deputy Director of Art and Programs at the Honolulu Museum of Art

DeSoto Brown Historian and Archivist at Bernice Pauahi Bishop Museum, Honolulu

Sam 'Olu Gon III, Ph.D. Senior Scientist and Cultural Advisor at the Hawai'i Nature Conservancy

Carolyn Kastner, Ph.D. Curator at the Georgia O'Keeffe Museum, Santa Fe

Friday, May 18, 10:30 am–12:30 pm, Ross Hall, NYBG | \$25/\$29 | 184HRT837

Georgia O'Keeffe: Visions of Hawai'i

May 19–October 28, 2018

This landmark exhibition focuses on a little-known, yet transformative experience in Georgia O'Keeffe's life—the nine weeks she spent in Hawai'i in 1939.

A stunning display in the Library's Art Gallery will present 20 of O'Keeffe's depictions of Hawai'i including paintings not seen together in New York since their original 1940 exhibition in Alfred Stieglitz's An American Place gallery. In the Conservatory, a lush tropical flower show will

showcase the extraordinary richness of Hawai'i's wild and cultivated flora, evoking the gardens and landscapes that affected O'Keeffe so deeply.

Throughout the exhibition's 24-week run, a Garden-wide celebration of Hawaiian Islands culture will enhance and enrich the exhibition experience.



LuEsther T. Mertz
Charitable Trust

 **NATIONAL ENDOWMENT FOR THE
HUMANITIES**

**Gillian and
Robert Steel**

Mobile Media supported by
**Bloomberg
Philanthropies**

AERIN

HAWAIIAN
AIRLINES

HAWAIIAN
ISLANDS

**WORLD
OF
HYATT**



**Council on
the Arts**

New York State Council on the Arts with the support of
Governor Andrew M. Cuomo and the New York State Legislature



The exhibition catalog is supported by
the Wyeth Foundation for American Art.

Additional support provided by the Arthur F. and Alice E. Adams Charitable Foundation and the Wolf Kahn and Emily Mason Foundation

Support for the Art Gallery Exhibition provided by Benjamin and Beth Hesse

Exhibitions in the Enid A. Haupt Conservatory are made possible by the Estate of Enid A. Haupt.

Exhibitions in the LuEsther T. Mertz Library are made possible by the LuEsther T. Mertz Charitable Trust. Additional support for Mertz Library exhibitions has also been provided by The Andrew W. Mellon Foundation and by a Challenge Grant from the National Endowment for the Humanities.

Any views, findings, conclusions, or recommendations expressed in this exhibition do not necessarily represent those of the National Endowment for the Humanities.

Artwork: Georgia O'Keeffe, *Hibiscus with Plumeria*, 1939, Oil on canvas, 40 x 30 in., Smithsonian American Art Museum, Gift of Sam Rose and Julie Walters, 2004.30.6 © 2018 Georgia O'Keeffe Museum / Artists Rights Society (ARS), New York
Photo: Harold Stein, [Georgia O'Keeffe on Leho'ula Beach, near Aleamai, Hāna, Maui], 1939, Gelatin silver print, 2 x 2 7/8 in., Alfred Stieglitz/Georgia O'Keeffe Archive, Yale Collection of American Literature. Beinecke Rare Book and Manuscript Library © Estate of Harold Stein

GEORGIA O'KEEFFE: A CREATIVE LIFE

An Evening with Roxana Robinson and Linda M. Grasso

Two expert authors discuss O'Keeffe's coming of age in modernist America and her identity as an independent artist and trailblazing feminist. These presentations followed by lively conversation will examine O'Keeffe's intense personal relationships, explore how the struggle to balance love and work fueled her extraordinary accomplishments, and situate her in the women's movements that affected the creation and reception of her art over several generations.



Roxana Robinson is the author of five novels, three short story collections, and the award-winning biography, *Georgia O'Keeffe: A Life*, which was named a

Notable Book of the Year by *The New York Times*. Robinson has written for *The New York Times*, *The Washington Post*, *The Wall Street Journal*, *Arts*, *ARTnews*, and other publications. She was President of the Authors Guild from 2014–2017, and teaches in the Hunter MFA program.



Linda M. Grasso is professor of English at York College, CUNY. She holds a Ph.D. in American Studies from Brown University and specializes in U.S. Literature and

Culture, Women's Literature, and Women's and Gender Studies. Her most recent book, *Equal under the Sky: Georgia O'Keeffe and Twentieth-Century Feminism*, is the first historical study of the artist's complex involvement with, and influence on, U.S. feminism from the 1910s to the 1970s.

Wednesday, June 13, 6:30–7:30 pm,
Ross Hall, NYBG
\$25/\$29 | 184HRT838



Humanities Institute Symposium

PLANT INTELLIGENCE

Peter Wohlleben Author of *The Hidden Life of Trees*
Stefano Mancuso Author of *Plant Revolution*

Do plants have intelligence? Current advances in research have shed new light on the remarkable interior life of plants. This symposium features renowned authors-scientists who use biological evidence to challenge our perceptions of plants and nature. Sharing intriguing new findings from the forest and the lab, these experts present new paradigms for our understanding of the vegetal world. Harvard's distinguished historian of science, Janet Browne, Ph.D., moderates the discussion.

In his international best seller, *The Hidden Life of Trees*, **Peter Wohlleben** reveals startling new discoveries about how trees nurture each other and maintain complex social networks. After 20 years at the German Forestry Commission, Wohlleben now runs an environmentally friendly woodland, working for the return of primeval forests.



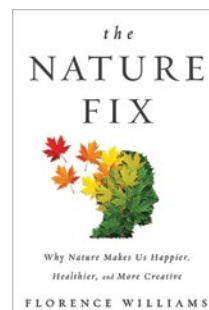
Acclaimed author-scientist **Stefano Mancuso** is director of the International Laboratory of Plant Neurobiology in Florence, which explores signaling and communication at all levels of biological organization, from genetics to molecules, cells, and ecological communities. The English translation of his most recent book, *Plant Revolution*, with a foreword by Michael Pollan, will be published this May.



Thursday, March 22, 10 am–12:30 pm | Ross Hall, NYBG | \$10/\$20 | 183BOT805

Support for the Humanities Institute provided by the Andrew W. Mellon Foundation

Illustration: ©Betsy Rogers-Knox, *Renewal—Eastern Hemlock* (2017), *Tsuga canadensis* (detail), Mary Flagler Cary Arboretum, Millbrook, NY, watercolor on paper



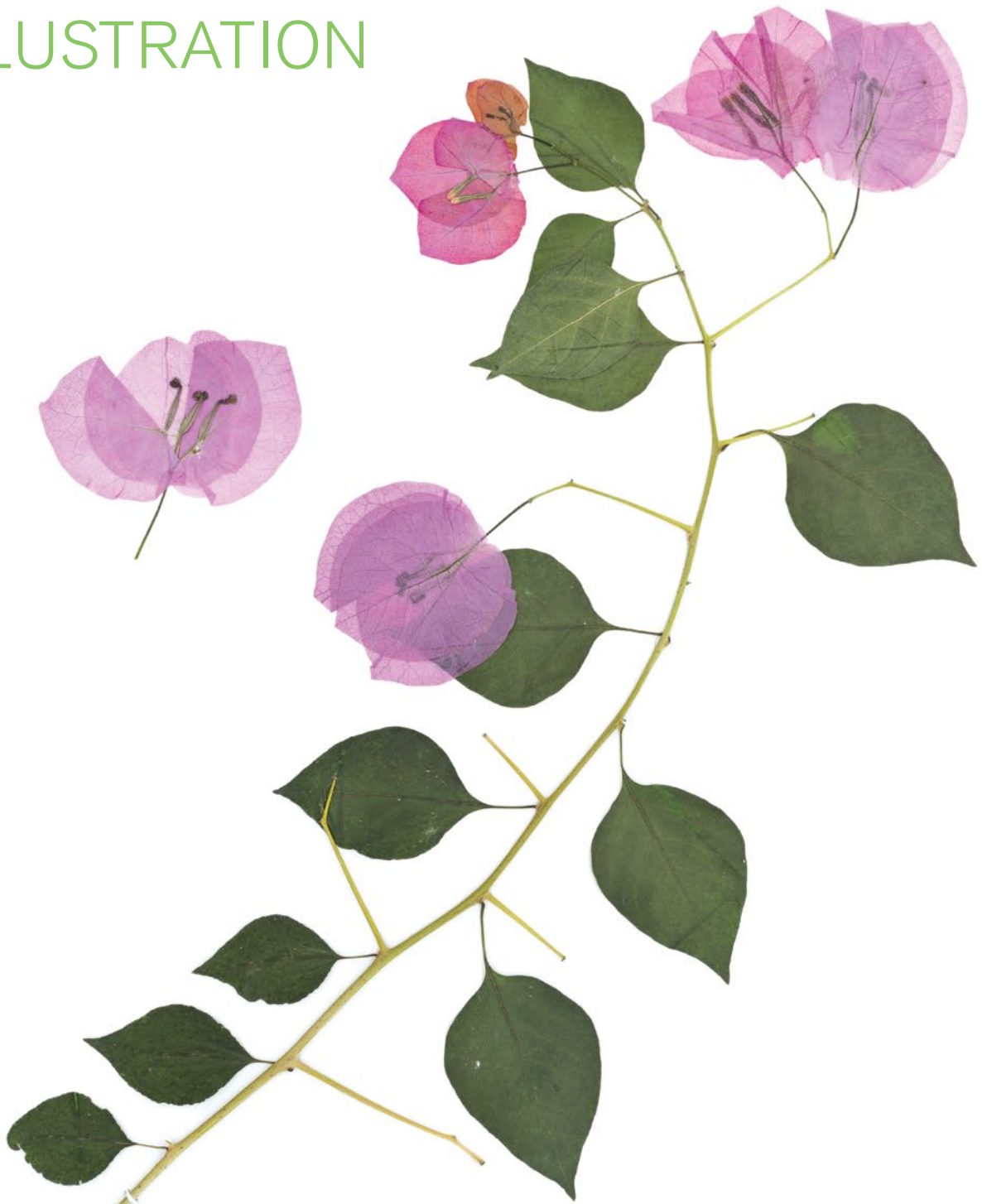
A TALK WITH FLORENCE WILLIAMS

“Go outside. Go often. Bring friends. Breathe.”

So writes Florence Williams in her recent book, *The Nature Fix: Why Nature Makes Us Happier, Healthier, and More Creative*. Williams, a journalist and contributing editor to *Outside* magazine, shares insights gleaned from talking with psychologists and neuroscientists on three continents about why we feel calmer after we've been in nature. She'll discuss how our well-being is affected by the way our brains respond to bird songs, the smell of the great outdoors, and fractal patterns often found in nature.

Friday, May 4, 10–11:30 am | Ross Hall, NYBG | \$25/\$29 | 184WEL906

BOTANICAL ART & ILLUSTRATION



Family Nyctaginaceae

Species *Bougainvillea glabra*

Collector's Field Notes United States. New York. Bronx Co.: New York Botanical Garden. House 5 of the Enid A. Haupt Conservatory, display house. Shrubby, climbing vine. Bright pink bracts surround small off-white flowers. Long woody spines. Leaves simple with small drip tip. Full sun.

Cassandra Inzerillo 3 Aug 2015

Scientific specimen in the William and Lynda Steere Herbarium at NYBG

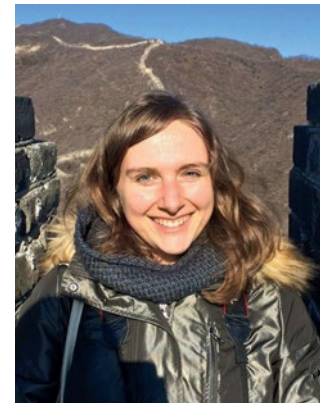
Contemporary botanical art captures the beauty of the natural world with precision, and our extraordinary instructors share their expertise in this nurturing yet rigorous program. NYBG offered North America's first formal botanical art certificate program, and has remained a leader in the discipline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

THE CERTIFICATE PROGRAM

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

During the course of the program, students will:

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



"I've always loved drawing plants and the natural world but wanted some professional guidance before jumping into a career in art. The experienced and accomplished artists-instructors at NYBG have given me invaluable feedback and advice. I am now a full-time freelance scientific illustrator looking forward to a bright future!"

—JENNIFER DEUTSCHER, 2017 Graduate

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



SUMMER INTENSIVE CLASSES

July 9–August 10

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

THE CLASSES

Botanical Drawing I: Methods and Materials

Monday, Wednesday, & Friday, 7/9–7/20
10 am–1 pm | NYBG | 191BIL301C

Monday, Wednesday, & Friday, 7/9–7/20
10 am–1 pm | Manhattan | 191BIL301D

Botanical Drawing II: Developing Your Skills

Monday, Wednesday, & Friday, 7/30–8/10
10 am–1 pm | NYBG | 191BIL302B

Pen and Ink

Monday, Wednesday, & Friday, 7/9, 7/11, & 7/13
10 am–4:30 pm | NYBG | 191BIL400

Colored Pencil

Tuesdays, Wednesday, Thursdays, 7/17–7/26
(no class 7/25), 10 am–2 pm | NYBG
191BIL415A



The Tri-State Botanical Artists of NYBG

TSBA is a lively group of over 40 artists who meet to engage in critiques, monthly art challenges, a sketchbook exchange, and discussions about relevant topics. We invite all current Certificate students and alumni to join us! TSBA is recognized as an ASBA Circle. Meetings are free and held at 11 am on the last Tuesday of each month at NYBG. 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 2018, the final project due date is April 26, 2018. Guidelines can be obtained from the Registration Office.

CERTIFICATE REQUIREMENTS

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

COURSE (in Recommended Order)	CODE	HOURS	PAGE
Botanical Drawing I: Methods and Materials	BIL 301	18	7
Botanical Drawing II: Developing Your Skills	BIL 302 P	18	7
The Basics of Visual Composition (should be completed early)	BIL 421 P	18	7
Botanical Drawing III: Focus on Flowers	BIL 303 P	18	7
Plant Morphology for Botanical Artists	BIL 300 P	20	7
Botanical Watercolor I	BIL 331 P	24	8
Practical Aspects of Botanical Art**	BIL 392 P	10	—
<i>Plus one of the following:</i>			
Internet Tools for Creatives, Part I: Social Media**	BIL 394	5	—
Internet Tools for Creatives, Part II: Website**	BIL 395	5	—
Pen and Ink	BIL 400 P	18	8
Colored Pencil	BIL 415 P	18	7
<i>Elective courses</i>		54	
TOTAL REQUIRED HOURS		221***	

ELECTIVES

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

COURSE	CODE	HOURS	PAGE
The Secrets of Daffodils	BIL 347 P	15	6
Drawing Mammals	BIL 358 P	15	9
Spring Flowers in Colored Pencil and Watercolor	BIL 433 P	15	8
Hibiscus in Watercolor and Colored Pencil	BIL 411	15	7
Drawing Spring Trees in Bloom	BIL 323	6	8
Tonal Drawing Techniques	BIL 356 P	15	8
Scaling Up: Enlarging	BIL 328 P	10	7
The Mystique of Carbon Dust	BIL 376 P	15	9
Branching Out in Silverpoint	BIL 351 P	12	9
Watercolor Techniques: Sepia Wash	BIL 414 P	12	8
The Stages of Crabapples	BIL 402 P	8	8
Floral Forms	BIL 325 P	8	9
Iridescence: Capturing Light on Form	BIL 614 P	15	9
Accordion Book: Illustrating A Life Cycle	BIL 615 P	18	9

**Courses offered in the Fall-Winter Catalog

***Plus a final project that meets Certificate standards

P Courses with a prerequisite before you can register

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

THE CLASSES

BOTANICAL WATERCOLOR FOR BEGINNERS AND BEYOND

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

5 Mondays, 3/12–4/9, 10 am–2:30 pm
Laura Vogel | Manhattan | 183BIL140E

5 Mondays, 5/7–6/11 (no class 5/28), 10 am–2:30 pm
Laura Vogel | Manhattan | 184BIL140A

5 Mondays, 6/18–7/23 (no class 7/2), 10 am–2:30 pm
Laura Vogel | Manhattan | 184BIL140B

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

\$345/\$379

BOTANICAL DRAWING FOR BEGINNERS

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

4 Tuesdays, 3/6–3/27, 6–9 pm
Rose Marie James | Manhattan | 183BIL145E

4 Tuesdays, 5/22–6/12, 6–9 pm
Katy Lyness | Manhattan | 184BIL145A

4 Wednesdays, 5/30–6/20, 10 am–1 pm
Sarah Wry | NYBG | 184BIL145B

4 Thursdays, 6/7–6/28, 10 am–1 pm
Linda M. Nemergut | NYBG | 184BIL145C

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

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

\$229/\$249

NEW! THE SECRETS OF DAFFODILS

Painting with yellow in watercolor presents many challenges, and subjects can easily be overpainted. Learn to work with a wide variety of warm and cool yellows, and practice mixing and applying their shadow hues using daffodils and other yellow flowers. With step-by-step demos, learn to create more vibrancy by using yellow as an underlying wash or as a glaze. P Prerequisite: *Botanical Watercolor I*

3 Tuesdays, 3/6–3/20, 10 am–3:30 pm
Betsy Rogers-Knox | NYBG | 183BIL347

\$359/\$395 *Certificate Elective*

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 Saturdays, 3/24–5/5 (no class 3/31), 10 am–1 pm
Laura Vogel | NYBG | 183BIL301A

6 Thursdays, 3/29–5/3, 6–9 pm
Rose Marie James | Manhattan | 183 BIL301B

Mondays, Wednesdays, & Fridays, 7/9–7/20,
10 am–1 pm
Linda M. Nemergut | NYBG | 191BIL301C


Mondays, Wednesdays, & Fridays, 7/9–7/20,
10 am–1 pm
Rose Marie James | Manhattan | 191BIL301D

5 Fridays, 9/14–10/12, 10 am–1:35 pm
Rose Marie James | NYBG | 191BIL301E

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

\$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, 3/7–4/18 (no class 4/11), 10 am–1 pm
Linda M. Nemergut | NYBG | 183BIL302C

6 Wednesdays, 3/7–4/11, 6–9 pm
Laura Vogel | Manhattan | 183BIL302D

6 Saturdays, 5/19–7/7 (no class 5/26 & 6/30),
10 am–1 pm
Laura Vogel | NYBG | 184BIL302A

Mondays, Wednesdays, & Fridays, 7/30–8/10,
10 am–1 pm
Linda M. Nemergut | NYBG | 191BIL302B

\$435/\$479 *Certificate Requirement*

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 Wednesdays, 4/11–5/30, 10 am–12:30 pm
Dick Rauh | NYBG | 184BIL300

\$495/\$545 *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 Thursdays, 4/26–5/31, 10 am–1 pm
Linda M. Nemergut | NYBG | 184BIL303A


6 Wednesdays, 5/2–6/6, 6–9 pm
Rose Marie James | Manhattan | 184BIL303B

6 Wednesdays, 9/12–10/24 (no class 9/19), 6–9 pm
Rose Marie James | Manhattan | 191BIL303C

\$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. We'll pay special attention to the innovative ways in which Georgia O'Keeffe used line, color, and balance in her work. 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 Fridays, 4/27, 5/11, 6/1 & 6/15, 10 am–3 pm
Lauretta Jones | NYBG | 184BIL421

\$449/\$495 *Certificate Requirement*

COLOR PENCIL

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

Tuesdays, Wednesday, & Thursdays, 7/17–7/26,
(no class 7/25), 10 am–2 pm
Laura Vogel | NYBG | 191BIL415A

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

\$435/\$479 *Certificate Requirement*

WORKSHOPS INSPIRED BY *Georgia O'Keeffe: Visions of Hawai'i*


**NEW! HIBISCUS IN WATERCOLOR AND COLORED PENCIL**

The sensual hibiscus flower, a focus of O'Keeffe's work during her time in Hawai'i, continues to beguile. Practice blending colored pencil and watercolor pencil to capture the tropical stunner's undulating petals and dramatic reproductive structure.

Wednesday–Friday, 7/25–7/27, 10 am–3:30 pm
Wendy Hollender | NYBG | 191BIL411

\$395/\$435 *Certificate Elective*

SCALING UP: ENLARGING

Many flowers and fruits have fascinating architecture that must be enlarged in order to be rendered properly. Use a dissecting microscope to closely examine samples and learn specific techniques to measure and scale up your botanical subjects for final artwork. You'll also use watercolor to begin painting your enlarged drawing. Practice this technique while you take in Georgia O'Keeffe's large-scale botanical studies up close and personal.  Prerequisite: *Botanical Watercolor*

2 Tuesdays, 6/12 & 6/19, 10 am–3:30 pm
Dick Rauh | NYBG | 184BIL328

\$239/\$265 *Certificate Elective*

NEW! BIRDS OF PARADISE IN WATERCOLOR WORKSHOP

Study the regal tropical flower that inspired Georgia O'Keeffe.

Sunday, May 20 or Sunday, June 10

Learn more about our Weekend Watercolor Workshops on page 8.

Illustration: Hibiscus ©Wendy Hollender,
NYBG Instructor



Weekend Watercolor Workshops

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

SPRING TULIPS IN WATERCOLOR WORKSHOP

Focus on the bold, symmetrical shape of this spring favorite whose beauty has captured our imagination for centuries.

Sunday, 4/15, 10 am–3:30 pm
Laura Vogel | NYBG | 184BIL207A

Saturday, 5/12, 10 am–3:30 pm
Laura Vogel | Manhattan | 184BIL207B

\$95/\$105

NEW! BIRDS OF PARADISE IN WATERCOLOR WORKSHOP

Study the regal tropical flower that inspired Georgia O'Keeffe.

Sunday, 5/20, 10 am–3:30 pm
Laura Vogel | NYBG | 184BIL211A

Sunday, 6/10, 10 am–3:30 pm
Laura Vogel | NYBG | 184BIL211B

\$95/\$105

NEW! CHERRIES IN WATERCOLOR WORKSHOP

Explore the range of hues found in cherries, from blushing pinks to velvety purples.

Sunday, 6/24, 10 am–3:30 pm
Carrie Di Costanzo | NYBG | 184BIL212

\$95/\$105


NEW! PLUMS IN WATERCOLOR WORKSHOP

Capture the glossy skin and deep tones of late-summer plums.

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

\$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, 6/2–7/21 (no class 6/30),
10:30 am–2:30 pm

Susan Sapanara | Manhattan | 184BIL331A

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

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

\$569/\$625 *Certificate Requirement*

PEN AND INK

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


 Prerequisite: *Botanical Drawing II*

Monday, Wednesday, & Friday, 7/9, 7/11, & 7/13,
10 am–4:30 pm

Carol Ann Morley | NYBG | 191BIL400

\$435/\$479 *Certificate Requirement*

NEW! WATERCOLOR TECHNIQUES: SEPIA WASH


Use the warmth and elegance of sepia to enhance your watercolor skills in washes, developing tone and adding detail. Regardless of your watercolor abilities, you will gain painting confidence by working in monochromatic sepia paint—without worrying about color. At the same time, create paintings that are beautiful in their own right.  Prerequisite: *Botanical Drawing II*

3 Tuesdays, 4/3–4/17, 10 am–2:30 pm
Laura Vogel | NYBG | 184BIL414

\$295/\$315 *Certificate Elective*

TONAL DRAWING TECHNIQUES


Strengthen your drawing skills with an in-depth study of tonal values and how to apply them using graphite. Revisit the basic shapes and the principles of shading. Learn to use these basic drawing tools to interpret the 3D forms of botanical and natural science subjects. Then, examine how master artists incorporated basic shapes as underlying forms for their subjects, how they used light on form, and what decisions they made in selecting the tones that gave visual clarity, depth, and power to their art.

 Prerequisite: *Botanical Drawing II*

Thursday–Saturday, 4/19–4/21, 10 am–3:30 pm
Carol Ann Morley | NYBG | 184BIL356

\$359/\$395 *Certificate Elective*

NEW! THE STAGES OF CRABAPPLES

With a little planning and patience the botanical artist can incorporate several seasons within one painting. In the spring session, you'll paint the beautiful crabapple blossoms, then return in the fall to add a fruiting branch. Sign up for one class or take both! You'll build upon the skills learned in *Watercolor I* to create translucent flowers and leaves, as well as round, glossy fruit.  Prerequisite: *Botanical Watercolor I*

2 Tuesdays, 5/1 & 5/8, 10 am–2:30 pm
Robin Jess | NYBG | 184BIL402A

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

\$195/\$215 *Certificate Elective*


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 Thursdays, 5/3 & 5/10 (rain date 5/17), 10 am–1 pm
Frank Guida | NYBG | 184BIL323

\$145/\$159 *Certificate Elective*

NEW! SPRING FLOWERS IN COLORED PENCIL AND WATERCOLOR

Revel in spring 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 spring flowers in bloom.  Prerequisite: *Botanical Drawing I*

Friday–Sunday, 5/4–5/6, 10 am–3:30 pm
Wendy Hollender | NYBG | 184BIL433


\$395/\$435 *Certificate Elective*



Illustration top: Tulip ©Jeanne Reiner, NYBG Instructor

Illustration bottom: ©Beverly Allen, New Guinea Dinner Plate Fig (2016), *Ficus dammaropsis* (detail), The Royal Botanic Garden Sydney, Australia, watercolor on paper


NEW! FLORAL FORMS

Flowers exist to produce seeds, and some flower species have developed fascinating structures to aid pollination and seed distribution. Use microscopes to investigate this intricate architecture, while capturing its beauty in graphite. Focus on how form follows function in flowers.  Prerequisite: *Botanical Drawing I*

2 Tuesdays, 5/15 & 5/22 10 am–2:30 pm
Dick Rauh | NYBG | 184BIL325

\$195/\$215 *Certificate Elective*


NEW! DRAWING MAMMALS

From gerbils to giraffes, and big cats to house cats, mammals make inspiring subjects. Learn the basic anatomy common among mammals, including underlying skeletal and muscular structures to help you create realistic renderings. Develop techniques to address subtle differences in hair and fur patterns, eyes, ears, feet, and teeth. You'll work from photographs and use graphite.  Prerequisite: *Botanical Drawing I*

Monday–Wednesday, 6/25–6/27, 10 am–3:30 pm
Marilyn Reilly | NYBG | 184BIL358

\$359/\$395 *Certificate Elective*

THE MYSTIQUE OF CARBON DUST

As a medium, carbon dust has been a mainstay for natural science illustrators for nearly a century. The technique combines carbon pencil lines and dust “washes” applied with brushes, resulting in rich, tonal renderings with a strong value range and precise detail. Bring your own natural science subject (e.g., shells or bones) and experience the “carbon dust mystique.”  Prerequisite: *Botanical Drawing II*

Monday, Tuesday, & Wednesday, 8/13–8/15,
10 am–2:30 pm
Scott Rawlins | NYBG | 191BIL376

\$255/\$279 *Certificate Elective*

NEW! BRANCHING OUT IN SILVERPOINT

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

 Prerequisite: *Botanical Drawing II*

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


\$285/\$315 *Certificate Elective*

VISITING ARTISTS

*Join us for two special workshops with
Mindy Lighthipe & Katie Lee*

NEW! IRIDESCENCE: CAPTURING LIGHT ON FORM

There is magic in iridescence. Renowned natural science artist and author of the recently published *The Art of Botanical & Bird Illustration* Mindy Lighthipe will show you how to capture the beguiling shimmer on peacock feathers, beetle exoskeletons, butterfly wings, and hummingbirds. She'll walk you through the basics of how to set up proper scientific lighting, mix colors, and paint surface contours—all of which will allow you to create a strong sense of three-dimensionality.


 Prerequisite: *Botanical Drawing II*

Monday–Wednesday, 7/16–7/18, 10 am–3:30 pm
Mindy Lighthipe | NYBG | 191BIL614

\$445/\$489 *Certificate Elective*

**NEW! ACCORDION BOOK: ILLUSTRATING A LIFE CYCLE**

An accordion book is the perfect format for telling the life cycle of a species, whether plant or animal. From seed to seed for a plant, or from egg to maturity for a bird, the story is revealed with each fold. Learn how to create such a book—which papers to use, how to cut and fold, how to order the sequence. Images will be collected, drawn on tracing paper, and transferred to the folded paper.

 Prerequisite: *Botanical Drawing II*

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

\$395/\$435 *Certificate Elective*

Illustration Top: Tortoise Beetle, ©Mindy Lighthipe, NYBG Instructor
Illustration Bottom: Accordion Book, ©Katie Lee, NYBG Instructor

BOTANY



Family Malvaceae

Species *Thespesia grandiflora*

Collectors' Field Notes United States. Puerto Rico. Mun Añasco. Bo Atalaya.: Rt 412 just E. of junction w/411. N side of Loma La Cadena. Coffee plantation. Tree 7 m: flowers red, drooping; fruit green, immature.

*Daniel Atha 786 16 Nov 1994
with Thomas A. Zanoni*

Scientific specimen in the William and Lynda Steere Herbarium at NYBG

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

THE CERTIFICATE PROGRAM

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

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

CERTIFICATE REQUIREMENTS

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

ELECTIVES

COURSE	CODE	HOURS*	PAGE
Intro to Environmental Science	BOT 318	8	12
Botanical Latin	GAR 360	10	12
Spring Mushrooms	BOT 330	6	13
Medical Botany**	BOT 470	12	—
The Science of Tree Communication	BOT 385	6	12
The Orchid Next Door	BOT 324	3	12
Mushrooms & Mycorrhizae	BOT 329	3	12
Morphology of Flowering Plants	BOT 431 P	16	13
Systematic Botany	BOT 432 P	21	13
Forest Ecology	BOT 326	12	13
Entomology	HRT 480	15	13

*Course hours do not include exam hours

**Courses offered in the Fall-Winter Catalog

P Courses with a prerequisite before you can register



"I was a self-taught estate gardener and wanted to learn more. The Botany Program at NYBG was exactly what I'd been looking for. Each instructor offered professionalism and passion. From the cellular to the tangible, I left every session with my mind expanded! I've broadened my understanding and deepened my connection to the plants that grow around me and humbly realize there is still so much more to learn."

— KRISTEN GARNIER, 2017 Graduate
Owner, Go Flower Go

QUESTIONS?

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



THE CLASSES

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, 3/12–4/9, 6:15–8:15 pm
Jennifer Bakshi | Manhattan | 183GAR360D

\$255/\$279 *Certificate Elective*

THE SCIENCE OF TREE COMMUNICATION

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

2 Fridays, 4/6 & 4/13, 10 am–1 pm
Steve Kutos | NYBG | 184BOT385A

2 Thursdays, 5/3 & 5/10, 6–9 pm
Steve Kutos | Manhattan | 184BOT385B

\$125/\$139 *Certificate Elective*

NEW! BASIC PLANT ID

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

2 Saturdays, 5/12 & 5/19, 10 am–1 pm
Katie Bronson | NYBG | 184BOT308A

2 Tuesdays, 6/19 & 6/26, 5–8 pm
Katie Bronson | NYBG | 184BOT308B

\$145/\$159

MILKWEEDS FOR MONARCHS

Join the effort to save the monarch butterfly by learning to restore their rapidly declining habitat, one plant at a time. Learn to propagate milkweed from seed, since this native flower is where monarchs prefer to lay their eggs. Longtime naturalist Nancy Slowik will also guide you through NYBG's Native Plant Garden to view a selection of northeastern plants whose nectar monarchs feed on during their fall migration. Take home two native species of milkweed to plant in your garden before the first frost, and make your yard a place where butterflies thrive. Please bring lunch and dress for the weather.

Tuesday, 8/28, 10 am–2:30 pm
Nancy Slowik | NYBG | 191BOT155

\$85/\$95



THE PLANT WHISPERERS —

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

THE ORCHID NEXT DOOR

Orchids are the largest plant family in the world. Although most species are tropical, Eastern North America is home to many fascinating orchids, 29 of which grow across the New York Metro Area (down from the original 46). Dr. Matthew Pace, Assistant Curator of the Steere Herbarium, will show you how to identify these beautiful and interesting plants. He'll also explain current cutting-edge research into their evolutionary history, as well as pollinator relationships and what you can do to help their conservation. The course will involve both lecture and microscope activities.

Monday, 4/16, 10 am–1 pm
Matthew Pace, Ph.D. | NYBG | 184BOT324

\$75/\$85 *Certificate Elective*

NEW! MUSHROOMS & MYCORRHIZAE

Join Dr. Roy Halling, NYBG's Curator of Mycology, on an insider's tour of the Thain Family Forest. A widely published expert on mushrooms around the world (and featured on the podcast Radio Lab!), Dr. Halling will discuss how mushrooms contribute to a forest's health, delving into the process by which mycorrhizal roots share water and nutrients with their tree partners in exchange for carbohydrates. You'll gather a variety of mushrooms to dissect and observe under microscopes, using stains to distinguish between plant and fungal material.

Friday, 8/10 (rain date 8/17), 10 am–1 pm
Roy Halling, Ph.D. | NYBG | 191BOT329

\$75/\$85 *Certificate Elective*

HEALING SPIRITS: THE BOTANY OF APERITIFS AND DIGESTIFS

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

Saturday, 4/7, 2–4 pm
Tremeur Arbor | NYBG | 184BOT261A

Thursday, 5/17, 6–8 pm
Brian Hockaday | Manhattan | 184BOT261B

Thursday, 7/26, 6–8 pm
Brian Hockaday | Manhattan | 191BOT261C

\$59/\$65

INTRO TO ENVIRONMENTAL SCIENCE

Planet Earth is comprised of interconnected systems—atmosphere, land, water, plants, and animal life—on which we depend for our very survival. Explore how these systems interact, as well as how human activities affect Earth's environment. We'll also discuss solutions to environmental problems on both a global and a local level.

5 Tuesdays, 4/3–5/1, 5–7 pm
Charles Yurgalevitch, Ph.D. | NYBG | 184BOT318

\$169/\$185 *Certificate Elective*

NEW! 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, 8/15–8/17, 10 am–1 pm
Keith Bowman | NYBG | 191BOT310

\$295/\$325

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, 4/7–5/12, 10:30 am–1:30 pm
James Kaechele | NYBG | 184BOT375

\$379/\$415 *Certificate Requirement*


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, 3/15–5/10, 5–8 pm
Nicole Fusco | NYBG | 183BOT315B

\$559/\$615 *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, 4/23–6/25, (no class 5/28), 5–8 pm
Jamie Boyer, Ph.D. | NYBG | 184BOT317S

9 Thursdays, 6/7–8/2, 6:15–9:15 pm
Steve Kutos | NYBG | 184BOT317B

\$559/\$615 *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 Tuesdays, 4/10–5/1, 10 am–1 pm
Nancy Slowik | NYBG | 184BOT333

\$295/\$325 *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, 5/8–6/12, 5–8 pm
David Sharkey | NYBG | 184BOT376

\$355/\$395 *Certificate Requirement*

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*

5 Fridays, 5/18–6/22 (no class 6/1),
Exam Monday, 7/2, 10 am–1:10 pm
Regina Alvarez | NYBG | 184BOT431S

\$395/\$435 *Certificate Elective*

SPRING MUSHROOMS

Morels, though hard to spot, occur throughout the metropolitan region, and spring is the ideal time to find them. Discover how and where to hunt for them, as well as numerous other spring mushrooms including oysters, inky caps, wine caps, dryad's saddle, reishi, and the early-spring chicken mushroom. 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 Wednesdays, 5/23 & 5/30, 10 am–1 pm
Gary Lincoff | Manhattan | 184BOT330

\$145/\$159 *Certificate Elective*

ENTOMOLOGY

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

6 Saturdays, 6/2–7/14, (no class 6/30),
10:30 am–1:30 pm
Tam Nguyen | NYBG | 184HRT480

\$355/\$395 *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, 6/22–7/13, 10 am–1 pm
Nancy Slowik | NYBG | 184BOT334

\$295/\$325 *Certificate Requirement*


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, 8/29–9/26 (no class 9/19),
5:30–8:30 pm
Elle Barnes | NYBG | 191BOT326

\$295/\$325 *Certificate Elective*

SYSTEMATIC BOTANY

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

8 Tuesdays, 9/4–10/30, (no class 9/11),
12:30–3:30 pm
Carlos Rodriguez | NYBG | 191BOT432S

\$495/\$545 *Certificate Elective*

Terroir— The Ecology of Wine

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



Thursday, 7/19, 6:30–8:30 pm
Tremeur Arbor | NYBG | 191BOT262A

Thursday, 8/9, 6:30–8:30 pm
Tremeur Arbor | NYBG | 191BOT262B

\$85/\$95

Illustration: Cabernet Grapes ©Rose Marie James,
NYBG Instructor

CRAFTS & DIY

Let Mother Nature be your muse!

Use botanicals to make prints, paper, planters and pendants.

We make it easy—all materials are included!



Family Scrophulariaceae

Species *Penstemon payettensis*

Collectors' Field Notes United States. Idaho. Boise Co.: Canyon Creek, along State Route 21, 26.5 mi north-east of Lowman, 5710 ft elevation. Rocky road bank.

Noel H. Holmgren 16595 29 May 2015

Patricia K. Holmgren

Scientific specimen in the William and Lynda Steere Herbarium at NYBG

NEW! ORCHID MOUNTING

Show off the exquisite beauty of an orchid by mounting it on cork. Not only is this a show-stopping piece of living décor, it is also healthy for the plant, mimicking the way epiphytic orchids grow in nature. Frank Guida, botanical artist and orchid aficionado, will discuss which species thrive on mounts and how to care for your newly mounted orchid. See page 24 for a morning class with Frank on repotting orchids on the same day.

Saturday, 3/24, 2–4:30 pm
Frank Guida | NYBG | 183CRF116

\$95/\$105

LIVING DÉCOR: TERRARIUMS WITH AIR PLANTS & ORCHIDS

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

Wednesday, 4/4, 6:30–8:30 pm
Maria Colletti | NYBG | 184CRF167A

Monday, 5/21, 6:30–8:30 pm
Maria Colletti | Manhattan | 184CRF167B

\$115/\$125

MOUNTED STAGHORN FERNS

Add a touch of majesty to your home! Mount a staghorn fern with sphagnum moss onto a wooden board for a living work of art. You'll also learn how to properly care for your fern so it will thrive indoors all year long. Please bring an apron.

Saturday, 3/17, 10 am–1 pm
Tara Douglass | Manhattan | 183CRF230B

Saturday, 4/21, 11 am–2 pm
Tara Douglass | NYBG | 184CRF230A

Saturday, 8/4, 11 am–2 pm
Tara Douglass | Manhattan | 191CRF230B

\$145/\$159

GIRLS' NIGHT OUT: SPRING WILDFLOWERS

Gather your friends, sisters, or mom for a night of fun and flowers. Create your own professional-looking floral arrangement while enjoying hors d'oeuvres, music, and the company of other women. One part class, one part party, our *Girls' Night Out* is a wonderful way to unwind while learning something new. No design experience is necessary!

Wednesday, 5/2, 6:30–8:30 pm
Bridget Vizoso | Manhattan | 184CRF170A

Thursday, 6/28, 6:30–8:30 pm
Bridget Vizoso | Manhattan | 184CRF170B

\$129/\$139

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, 4/7, 11 am–2:30 pm
Dorothy Smullen | NYBG | 184CRF130

\$79/\$85

NEW! PAPER HOLLYHOCKS

"Are those flowers real?" It's a question Livia Cetti, the nation's premier paper flower artist, hears a lot. In this new workshop, Livia shows you how to make a high-style hollyhock, from stem to stamen. Discover the best ways to bleach, cut, and shape your paper into petals that you will assemble using wire and floral tape, creating an exquisite, lifelike flower that will brighten your home regardless of the season.

Thursday 4/19, 10am–2:30pm
Livia Cetti | NYBG | 184CRF251

\$149/\$165

NEW! COLLAGE

Cut loose and get experimental! Play with blending a variety of materials together on a single surface to create a visually stunning composition. Learn to make your own materials by manipulating magazine pages using citrasolv. Experiment with transferring images from one surface to another. And finally, enhance your assembled collages by adding media (paint, ink, pastels). All levels of experience are welcome.

2 Saturdays, 5/12 & 5/19, 10:30 am–3 pm
Linda M. Nemergut | NYBG | 184CRF205A

2 Saturdays, 8/11 & 8/18, 10:30 am–3 pm
Linda M. Nemergut | NYBG | 191CRF205B

\$195/\$215

HYPER-TUFA PLANTER

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

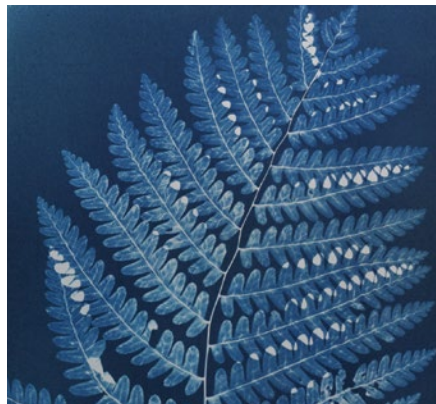
Saturday, 7/28, 11 am–2 pm
Nick Gershberg | NYBG | 191CRF148

\$95/\$105



Assemble a striking collage.

©Linda Nemergut



Create your own cyanotypes.

©William Waitzman



Paint with watercolor *en plein air*.

©Naomi Campbell



Dye silk with ancient indigo.

©Claire Fredrick

BOTANICAL BLUES: CYANOTYPE

Harness sunlight to create dreamlike botanical images in rich blues. William Waitzman, whose artwork appears in *The New Yorker* and *The New York Times*, will guide you through the hands-on process of making cyanotype photograms, one of the oldest forms of photography and one that doesn't use a camera. Learn the best ways to prep your paper with light-sensitive chemicals, compose your image using pressed plants, and develop your print in the sunshine. Complete 4–6 unique pieces of art.

Saturday, 5/5 (rain date 5/6), 10:30 am–3 pm
William Waitzman | NYBG | 184CRF128A

Saturday, 7/14 (rain date 7/15), 10:30 am–3 pm
William Waitzman | NYBG | 191CRF128B

\$139/\$155

BOTANICAL JEWELRY: BOTANICALS IN RESIN

Make a pendant, ring or magnet using dried botanicals and other natural elements. Eco-jeweler and Brooklyn Botanic Garden Curator of Containers & Interior Displays, Margarita Poulson, shows you how to use casting epoxy, to dry and press plant materials, to embed pieces in resin, and to finish your creations. Materials are provided, but students are welcome to bring their own dried botanicals, small photos, and bits of paper or fabric. Due to the nature of the resin, individuals with asthma or who may be pregnant should not take this class.

2 Saturdays, 5/12 & 5/19, 11 am–2 pm
Margarita Poulson | Manhattan | 184CRF122

\$159/\$175

NEW! PLEIN AIR WATERCOLOR

Capture the beauty of the Garden in spring using watercolor as you practice painting *en plein air*, an approach that was fundamental to the 19th-century Impressionist movement. Award-winning multimedia artist Naomi Campbell, whose work has been featured in *American Artist* and *Watercolor Artist*, will show you how to compose your subject, handle changing light, create a sense of perspective, and mix colors confidently. No painting experience required.

2 Saturdays, 6/2 & 6/9, 10 am–1 pm
Naomi Campbell | NYBG | 184CRF168

\$125/\$139

NEW! INDIGO DYE PARTY

Create your newest statement scarf or delicate wall hanging by dying a beautiful versatile large silk square in alluring and ancient indigo. Claire Frederick—co-founder of Wax and Wane Fiber—studied natural dyes all over the world and is eager to show you the tips and tricks of dying using the Japanese shibori technique. She'll also walk you through how to make a dye vat and share her knowledge of the history of this deep-blue dye made from the indigo plant, which has been used by people for thousands of years on every continent.

Thursday, 7/12, 10 am–12pm
Claire Fredrick | NYBG | 191CRF132A

Saturday, 7/14, 12–2 pm
Claire Fredrick | NYBG | 191CRF132B

\$115/\$125

FLORAL DESIGN



Family Malvaceae

Species *Hibiscus moscheutos*

Collector's Field Notes United States. New York. Bronx Co.: Twin Lakes parking lot, New York Botanical Garden, trail along western edge of pond behind Pfizer lab.

Herbaceous colony forming perennial to 2 m tall. Flowers plate-like to 15 cm last only 1–2 days. Leaves alternate, stems hairy, somewhat woody near base.

Matthew Fastuca 6 31 July 2015

Scientific specimen in the William and Lynda Steere Herbarium at NYBG

Expressing yourself through flowers can be a personal passion... or a professional career. From designing arrangements for your own table to delivering a client event, our hands-on classes will help get you started—or take you to the next level. Choose an individual course for fun, or pursue a Certificate in Floral Design.

THE CERTIFICATE PROGRAM

The NYBG Certificate Program helps you develop your own aesthetic and master the mechanics for everything from simple bouquets to grand-scale arrangements, while giving you a practical, real-world, business foundation. No experience is necessary—just your flair and enthusiasm.

During the course of the program, students will:

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



SUMMER INTENSIVE PROGRAM

July 9–August 10

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!

THE CLASSES

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

Monday–Friday, July 9–August 10, 10 am–5 pm | NYBG | 191FDN950

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, books, and a complete set of tools.

An optional payment schedule is available if requested. \$1,995 is due at registration, 2nd payment due May 21, final payment June 18. No refunds after Monday, June 18, 2018.

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



"Like many romantics, I adore flowers. When I discovered the NYBG Floral Design Program, I found a vibrant community of fellow flower worshippers, and a richly diverse, thoughtfully crafted curriculum that taught me practical skills with a highly refined aesthetic sensibility. My life has been deeply enriched through my studies, and I feel greatly inspired to use flowers as a creative medium."

— MARTIE NEGRI, 2017 Graduate



**GET NYBG
CERTIFIED**

With the demand for floral design services at an all-time high, the prestigious NYBG Certificate 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 shop.

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

CERTIFICATE REQUIREMENTS

COURSE	CODE	HOURS	PAGE
Fundamentals of Form	FDN 300	16	20
Fundamentals of Style	FDN 302 P	16	20
Wedding Design I: Personals	FDN 304 P	16	20
Color Theory for Floral Design	FDN 306	8	21
Flower ID from A to Z	FDN 308	8	21
Interior Plantscapes	FDN 310	8	21
Shopping the New York Flower Market	FDN 400	4	21
Practical Planning for Designers	FDN 408 P	8	21
Wedding Design II: Ceremony & Reception	FDN 305 P	16	21
Grand-Scale Arrangements	FDN 502 P	8	21
Event Planning for the Floral Designer	FDN 504 P	12	21
<i>Elective courses</i>		32	
TOTAL REQUIRED HOURS		152	

ELECTIVES

COURSE	CODE	HOURS	PAGE
Tropical Nouveau	FDN 410	6	20
Sculptural Headpieces	FDN 316	2	18
Woodland Centerpiece	FDN 381	4	18
Designing for a Parade	FDN 392	3	18
Seasonal Bridal Bouquet	FDN 342	3	19
Spring Blossoms: Flemish Style	FDN 379	3	19
Modern Minimalism with Metaflora	FDN 467 P	4	19
Decorating Cakes with Flowers	FDN 364	4	20
Exploring Tablescape: Floral Runners	FDN 362	4	20
Photo Styling: Building Your Brand on Social Media	FDN 369	6	19
Arranging with Summer Wildflowers	FDN 329	4	20
Antique Roses	FDN 321	4	20
Ikebana: A Comprehensive Approach	FDN 325	9	20
Designing with Tropical Flowers	FDN 391	4	19
English Weddings	FDN 451B	6	21
English Centerpieces	FDN 451C	6	21

P Courses with a prerequisite before you can register

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

STUDENT INFORMATION

REGISTRATION

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

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

CLASS MATERIALS

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

CERTIFICATE STUDENTS

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

CERTIFICATION DEADLINE

Students who expect to graduate in June 2018 must inform the Registration Office in writing of their candidacy by February 23, 2018. Students will be contacted by April 15 to confirm that all their course requirements have been met. If you are not contacted, please call the Registration Office at 718.817.8747. The Portfolio must be submitted to the Registration Office no later than May 7, 2018.

THE CLASSES



© Joshua Werber

NEW! SCULPTURAL HEADPIECES

Joshua Werber's playful headpieces are certain to delight, as his many followers on Instagram readily attest. In this special workshop, Joshua will discuss how to use botanical materials to design headpieces that evoke a wide variety of emotions. Learn the basic mechanics needed to create unique forms, while experimenting with making a bold statement of your own. You'll have a wide variety of plant material to choose from as you create, all while drawing inspiration from Josh's lush aesthetic and sculptural approach to flowers. \$75 materials fee.

Friday, 4/27, 10 am–1 pm
Joshua Werber | NYBG | 184FDN316

\$135/\$149 *Certificate Elective*

WOODLAND CENTERPIECE

Create a textured, forest-inspired centerpiece with bark, foliage, seedpods, moss, berries, ranunculus, lady's mantle, and other flowers. Learn techniques for binding flowers and plant material to create magical floral art. \$100 materials fee.

Thursday, 3/1, 6:15–9:15 pm
Tom Sebenius | Manhattan | 183FDN381

\$135/\$149 *Certificate Elective*

NEW! DESIGNING FOR A PARADE

Beloved instructor Tom Sebenius returns from California to share the secrets he's learned after 30 years of work on The Tournament of Roses, the world's most famous parade. He'll demonstrate the mechanics and unusual materials used to create these masterpieces—from blueprints to welding to debuting massive floral floats. With this inspiration and expertise, you'll make your own stunning, color-blocked arrangement featuring dramatic sprays of orchids, delphinium, and (of course) roses. \$85 materials fee.

Saturday, 3/3, 10 am–1 pm
Tom Sebenius | NYBG | 183FDN392

\$135/\$149 *Certificate Elective*

PHOTO STYLING: BUILDING YOUR BRAND ON SOCIAL MEDIA

Garnering thousands of likes on Instagram and Facebook generates buzz around your business. But do you know what and when to post? Learn to design a simple arrangement, then consciously frame and edit photos you take from your phone. Explore how to create a social media identity, choose hashtags to drive followers, and use third party apps to stylize your photos and schedule your posts. \$70 materials fee.

Tuesday, 3/6, 10:30 am–5 pm
Bridget Vizoso | Manhattan | 183FDN369B

\$179/\$195 *Certificate Elective*

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, 3/15, 6–8 pm
Rose G. Edinger | Manhattan | 183FDN210J

Tuesday, 5/8, 6–8 pm
Rose G. Edinger | Manhattan | 184FDN210A

\$49/\$55

SPRING BLOSSOMS, FLEMISH STYLE

Hellebores, anemones, and tulips bring a breath of fresh air to winter rooms. Guided by trending designer Sierra Steifman of Poppies and Posies, create lavish, organic arrangements that usher in the promise of spring. \$100 materials fee.

Monday, 3/12, 10 am–1 pm
Sierra Steifman | NYBG | 183FDN379

\$145/\$159 *Certificate Elective*

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.

Tuesday, 3/27, 11 am–1 pm
Bridget Vizoso | NYBG | 183FDN203D

Friday, 5/4, 11 am–1 pm
Rose G. Edinger | NYBG | 184FDN203A

Monday, 6/11, 6–8 pm
Nsombi Woodson | Manhattan | 184FDN203B

\$49/\$55

SEASONAL BRIDAL BOUQUET

Today's brides want bouquets that reflect the informal elegance of flowers hand-picked from the garden. Organic and natural clutches may look easy enough to make, but there's a real method to assembling these simple, graceful compositions. Select local blooms and arrange them to showcase their distinctive qualities. Flowers will vary depending on the season. \$90 materials fee.

Monday, 6/25, 10 am–1 pm
Nsombi Woodson | NYBG | 184FDN342A

\$95/\$105 *Certificate Elective*

DESIGNING WITH TROPICAL FLOWERS

With their spare, severe look and clean, dramatic lines, orchids, anthuriums, birds of paradise, and other exotics can make a dazzling modern impact. Learn about selecting and preparing these long-lasting, heat-resistant tropicals, and go home with two eye-catching arrangements of your own. \$95 materials fee.

Monday, 4/9, 10:30 am–3 pm
Bridget Vizoso | NYBG | 184FDN391

\$135/\$149 *Certificate Elective*

The Cutting Edge

A Floral Design Series

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

**MODERN MINIMALISM WITH METAFLORA**

Sexy. Irreverent. Defiantly unnatural. This is the work of white-hot floral designer **Marisa Competello** and her company, Metaflora.

Inspired by transcendent ikebana masters as well as graphic designers of the 1980s, Marisa creates bold, unexpected shapes within her designs. A trained dancer, Marisa uses her intuition about silhouette and line, texture and color to inform her vision. She delights the eye with the unexpected.

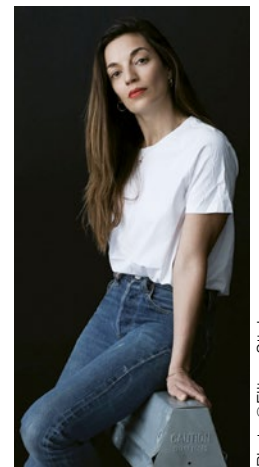


Photo ©Ellenor Stigle

Under her expert guidance, you'll experiment with creating arresting arrangements that showcase graphic shapes using tropical leaves and flowers.

P Prerequisite: *Fundamentals of Form*

A former fashion stylist, Marisa created Metaflora in 2014. And her refined designs featuring anthuriums, Calla lilies, palms, and orchids are now in great demand among New York creatives. She's been featured in *The New York Times* and *New York Magazine*, and counts Nike, Theory, Chloe, and Marlboro Gallery among her growing client list.

Friday, 5/11, 11 am–2 pm
Marisa Competello | NYBG | 184FDN467

\$245/\$269 *Certificate Elective*



MIDTOWN MINI SUMMER INTENSIVE

In just three weeks, take the first three required classes in NYBG's Floral Design Certificate Program at our Midtown Center and gain the key skills needed to create a wide variety of floral designs.

Our instructors are floral design professionals who share tips about the ins and outs of how the industry works, while teaching you the basics you'll need to get started!

THE CLASSES

Fundamentals of Form | Fundamentals of Style | Wedding Design I: Personals

Monday–Thursday, July 16–August 2 | 10:30 am–3 pm | Manhattan | 191FDN955

TUITION

\$2,329 (Member) / \$2,559 (Non-Member)

Tuition includes all flowers, supplies, books, and a complete set of tools. Payment schedule is available if requested.

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

Master Class with Hitomi Gilliam: Tropical Nouveau



Hitomi Gilliam, the internationally renowned designer who co-created the European Master Certification with Belgium's Tomas De Bruyne, has developed a new, sensuous style: Tropical Nouveau. This is a rare opportunity to learn how to combine tropical and temperate flowers in a soft Art Nouveau way by focusing on their textures and colors—with dramatic results. Come learn from a master, and experiment with Hitomi's edgy Tropical Nouveau style by crafting a hand-tied bouquet and a vertical design. Materials included.



Friday, 6/1, 10 am–4 pm | Hitomi Gilliam | NYBG | 184FDN410 | \$355/\$395 *Certificate Elective*

DECORATING CAKES WITH FLOWERS

Learn the art of embellishing cakes with fresh flowers and foliage for many occasions. Explore the dos and don'ts of decorating cakes with flowers and no-fail approaches to tasteful, creative designs. Party themes are discussed and professional techniques, including conditioning flowers, are demonstrated. Design your own cake to take home. \$65 materials fee.

Saturday, 6/16, 11 am–3:30 pm
Julio Jimenez | NYBG | 184FDN364

\$115/\$125 *Certificate Elective*

IKEBANA: A COMPREHENSIVE APPROACH

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

3 Thursdays, 6/7–6/21, 11 am–2 pm
Junko Miura | NYBG | 184FDN325

\$265/\$289 *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, 6/4, 10 am–2:30 pm
Nsombi Woodson | NYBG | 184FDN362

\$115/\$125 *Certificate Elective*

ANTIQUE ROSES

Soft and romantic, fragrant and textured, antique roses are classic. After a brief introduction to a medley of heirloom roses—from the dusty undertones of Juliet to beautiful bicolors such as Amnesia—you'll pair roses and Victorian-style tulips and freesia with traditional berries, lace, and dusty miller for a sentimental, antique feel. Create two designs—a romantic container arrangement and a vintage bridal bouquet. \$90 materials fee.

Monday, 6/11, 10 am–2:30 pm
Nancy White | NYBG | 184FDN321

\$115/\$125 *Certificate Elective*

ARRANGING WITH SUMMER WILDFLOWERS

A loose, textural wildflower arrangement adds summer glow to a space, while making it more natural and inviting. In this session, we'll look at ways to evoke the wild meadow outside with an artistic assortment of locally sourced flowers from farmers' markets, gardens, and meadows. A tour of NYBG's Seasonal Walk is included for inspiration. \$70 materials fee.

Monday, 6/18, 10 am–2:30 pm
Nsombi Woodson | NYBG | 184FDN329

\$115/\$125 *Certificate Elective*

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, 3/22–4/12, 10:30 am–3 pm
Thomas Cawley | NYBG | 183FDN300A

3 Tuesdays & 3 Thursdays, 3/27–4/12,
6:15–8:55 pm
Jameel Gilbert | Manhattan | 184FDN300B

4 Sundays, 4/8–4/29, 11 am–3:30 pm
Nsombi Woodson | NYBG | 184FDN300C

Monday–Thursday, 7/16–7/19, 10:30 am–3 pm
Jameel Gilbert | Manhattan | 191FDN300D

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

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

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

\$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.

 Prerequisites: *Fundamentals of Form*

4 Tuesdays, 5/8–5/29, 10:30 am–3 pm
Nsombi Woodson | NYBG | 184FDN302A

4 Sundays, 6/10–7/8 (no class 7/1), 11 am–3:30 pm
Nsombi Woodson | NYBG | 184FDN302B

Monday–Thursday, 7/23–7/26, 10:30 am–3 pm
Jameel Gilbert | Manhattan | 191FDN302C

\$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 Mondays, 4/2–4/23, 10:30 am–3 pm
Nsombi Woodson | Manhattan | 184FDN304A


4 Tuesdays, 6/5–6/26, 11 am–3:30 pm
Nsombi Woodson | NYBG | 184FDN304B

Monday–Thursday, 7/30–8/2, 10:30 am–3 pm
Bridget Vizoso | Manhattan | 191FDN304C

\$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*

4 Saturdays, 3/3–4/7 (no class 3/17 & 3/31), 10:30 am–3 pm

Yoli LaGuerre CFD, AIFD | Manhattan | 183FDN305C

4 Mondays, 4/30–5/21, 10 am–2:30 pm
Thomas Cawley | NYBG | 184FDN305A

\$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.

Wednesday, 4/25, 9 am–12:30 pm
Rose G. Edinger | Off site | 184FDN400A

Wednesday, 6/27, 9 am–12:30 pm
Rose G. Edinger | Off site | 184FDN400B

Monday, 8/6, 9 am–12:30 pm
Nsombi Woodson | Off site | 191FDN400C

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

\$95/\$105 *Certificate Requirement*

COLOR THEORY FOR FLORAL DESIGN

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

2 Mondays, 4/16 & 4/23, 10 am–2:30 pm
Bridget Vizoso | NYBG | 184FDN306A

3 Tuesdays, 5/15–5/29, 6:15–8:55 pm
Rose G. Edinger | Manhattan | 184FDN306B

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

\$195/\$215 *Certificate Requirement*

FLOWER ID FROM A TO Z

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

3 Thursdays, 4/19–5/3, 6:15–8:55 pm
Rose G. Edinger | Manhattan | 184FDN308A

2 Tuesdays, 5/1 & 5/8, 11 am–3:30 pm
Jameel Gilbert | NYBG | 184FDN308B

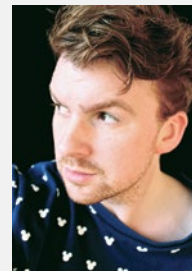
\$195/\$215 *Certificate Requirement*

Master Classes with Joseph Massie



Frequently called “the floral artist of his generation,” Joseph Massie is one of Europe’s top designers—with five consecutive RHS Chelsea Gold Medals to his credit! In spring 2016, Massie—just 27—executed a special commission for Queen Elizabeth’s 90th birthday, in which he designed a tunnel made of 5,000 fresh-cut roses and 1,000 preserved rose petals suspended in air.

Joseph will share the secrets of his refined sense of floral artistry while you craft contemporary designs with an English twist and a keen focus on technique, style, and creativity.



ENGLISH WEDDINGS

Explore the style and construction of couture bridal bouquets throughout English history, starting with Queen Victoria. Inspired by tradition but very much a fan of pushing boundaries, Joseph will be your guide as you create an exquisite bouquet, boutonniere, corsage, and headpiece.

Friday, 3/9, 10 am–4 pm | NYBG
183FDN451B | \$345/\$379 *Certificate Elective*

ENGLISH CENTERPIECES

Examine current trends and aesthetic techniques popular in English floral design. Craft a technically excellent, visually resplendent centerpiece, then style it with linens and accessories for maximum impact. Joseph will also demonstrate two further pieces as variations on the theme.

Saturday, 3/10, 10 am–4 pm | NYBG
183FDN451C | \$345/\$379 *Certificate Elective*

Register for both and receive a discount | 183FDN451A | \$645/\$709

INTERIOR PLANTSCAPES

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

2 Thursdays, 5/3 & 5/10, 10 am–2:30 pm
Chris Raimondi, CLP | NYBG | 184FDN310

\$195/\$215 *Certificate Requirement*

PRACTICAL PLANNING FOR DESIGNERS


A career in floral design is a passion...and a business! This real-world overview will show you how to work with suppliers, schedules, and deadlines, and help you identify and locate the floral and hard-goods materials and tools required of a successful floral designer. Develop the branding, marketing, and planning skills needed to build client relationships for a thriving business. \$60 materials fee.  Prerequisite: *Fundamentals of Style*

2 Fridays, 3/16 & 3/23, 10 am–2:30 pm
Nancy White | NYBG | 183FDN408B

2 Wednesdays 6/20 & 6/27, 10 am–2:30 pm
Nancy White | NYBG | 184FDN408A

\$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: *Wedding Design I*

3 Wednesdays, 3/7–3/21, 10 am–2:30 pm
Thomas Cawley | NYBG | 183FDN504B

3 Wednesdays, 5/16–5/30, 10:30 am–3 pm
Jameel Gilbert | Manhattan | 184FDN504A

\$285/\$315 *Certificate Requirement*

GRAND-SCALE ARRANGEMENTS

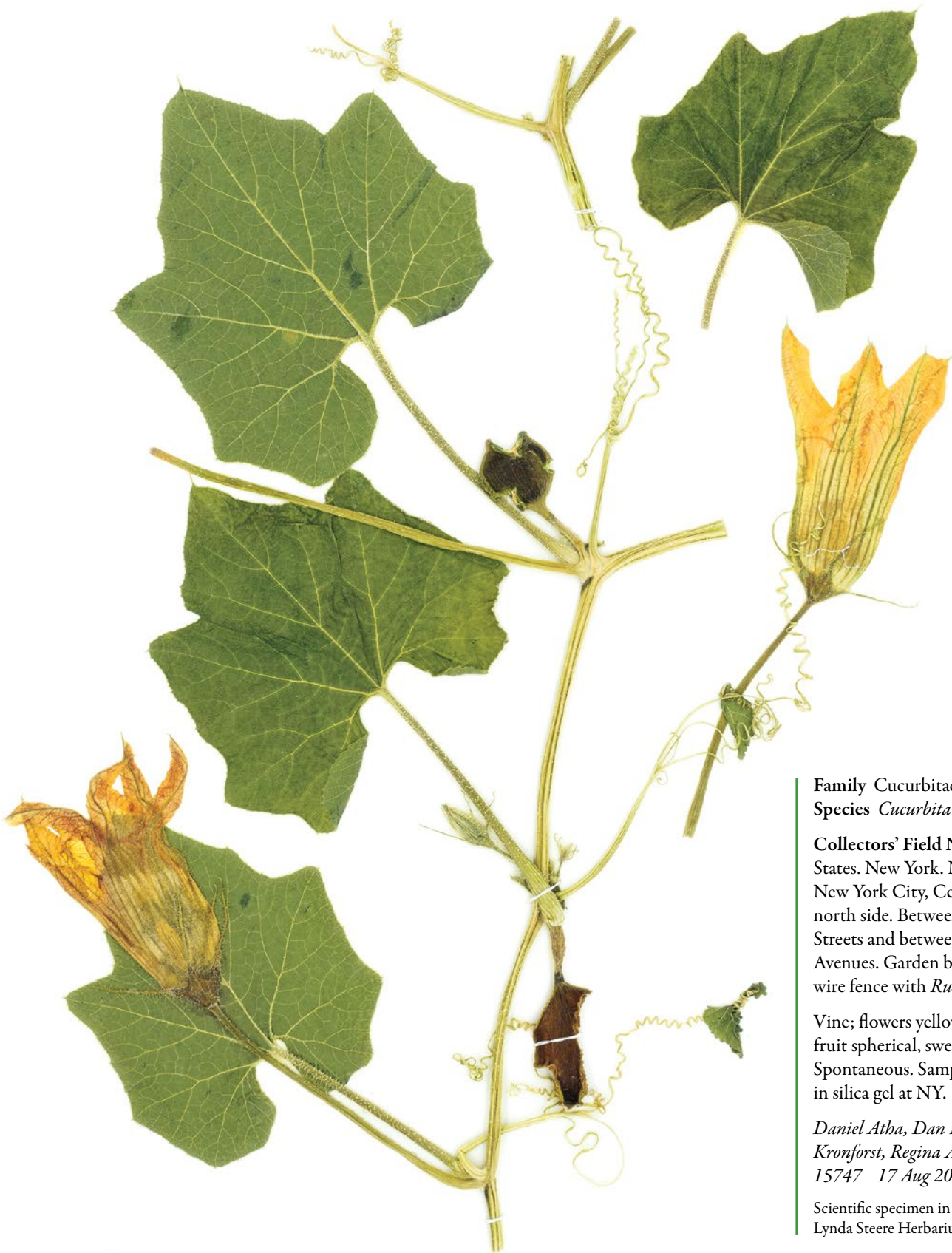
Full, lavish arrangements to enhance entrance halls, ballrooms, parties, and hotels are always in demand. Learn the mechanics behind how these dramatic arrangements are designed and constructed. \$200 materials fee.  Prerequisite: *Wedding Design I*

2 Wednesdays, 4/11 & 4/18, 10 am–2:30 pm
Thomas Cawley | NYBG | 184FDN502

3 Wednesdays, 6/6–6/20, 6:15–8:55 pm
Jameel Gilbert | Manhattan | 184FDN502B

\$225/\$249 *Certificate Requirement*

GARDENING



Family Cucurbitaceae

Species *Cucurbita moschata*

Collectors' Field Notes United States. New York. New York Co.: New York City, Central Park. Pool, north side. Between 100th and 101st Streets and between 7th and 8th Avenues. Garden bed with 2-foot wire fence with *Rubus laciniatus*.

Vine; flowers yellow-orange; fruit spherical, sweet smelling. Spontaneous. Sample preserved in silica gel at NY.

Daniel Atha, Dan Protess, Marcus Kronforst, Regina Alvarez, Tim Boyd
15747 17 Aug 2016

Scientific specimen in the William and Lynda Steere Herbarium at NYBG

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.



SUMMER INTENSIVE PROGRAM

July 9–July 27

Fast track your NYBG Gardening Certificate this summer! In just three short weeks, you'll complete over 25% 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 9–27 | 9 am–4 pm | NYBG | 191GAR950

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 21, final payment June 18. No refunds after Monday, June 18, 2018.

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



"I gardened for years without really understanding the how or why of the plant world. At NYBG, that changed. I began to pay attention to how I could make sustainable gardens in which all the elements—living and nonliving—work together beautifully. The practical and theoretical knowledge has made me more articulate as a writer, garden teacher for young children, and neighborhood environmentalist."

— ANNE D. HAAS, 2017 Graduate
Volunteer Gardener,
Clinton Community Garden, NYC

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



*Always wanted to see the gardens
of Japan? Come to Kyoto with NYBG!*

See page 44 for more details.

THE ORCHID SHOW | MARCH 3–APRIL 22, 2018

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. Jim Freeman 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. Walk away feeling confident and equipped with the knowledge to make your orchids thrive.

Saturday, 3/17, 11 am–2 pm
Jim Freeman | NYBG | 184GAR213A

\$55/\$59

ORCHIDS: DIVIDE, REPOT, REJUVENATE

Frank Guida, beloved Botanical Art teacher and orchid aficionado, shows you what he's learned from years of helping out 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 and making your own bark mix.

Saturday, 3/24, 10 am–12:30 pm
Frank Guida | NYBG | 183GAR213B


\$55/\$59

NEW! DESKTOP ORCHIDS






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

Saturday, 4/14, 11 am–1 pm
Barbara Schmidt | NYBG | 184GAR213C

\$55/\$59

THE ORCHID SHOW Sponsors: Mr. and Mrs. Charles M. Royce  CelebriX Cruises


CERTIFICATE REQUIREMENTS

COURSE	CODE	HOURS	PAGE
Fundamentals of Gardening	GAR 301	12	27
Introduction to Plant Science	HRT 300	16	33
Soil Science for Gardeners	GAR 302	12	27
Gardening with Native Plants	GAR 315	9	27
Insect Identification and Management	GAR 320	12	28
Disease Identification and Management	GAR 324	12	28
Fundamentals of Garden Design	GAR 342 	12	27
Vegetable Gardening	GAR 431 	8	28
Complete Garden Care and Maintenance	GAR 440 	18	28
Pruning Principles and Practices**	HRT 321 	15	—
Plants for Landscaping	HRT 358	16	33
Plant Propagation I: Basic Principles	HRT 411 	18	35
<i>Elective GAR or HRT courses</i>		23	
TOTAL REQUIRED HOURS		187	

ELECTIVES

COURSE	CODE	HOURS	PAGE
Designing Winning Plant Combinations	GAR 321	5	25
Garden Design Workshop	GAR 317	8	25
Spring Rose Care	GAR 313	3	25
Healthy Garden Ecosystems	GAR 306	8	25
Basics of Perennial Maintenance	GAR 323	7	25
Container Gardening	GAR 327	8	25
Landscape for Curb Appeal	GAR 326	3	25
Growing a Culinary Herb Garden	GAR 329	3	27
Botanical Latin	GAR 360	10	27

**Courses offered in the Fall–Winter catalog.

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

THE CLASSES

PRUNING: HOW, WHEN, AND WHERE

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

Saturday, 3/3, 10 am–3 pm
Ann Perkowski | New Canaan Nature Center,
New Canaan, Conn. | 183GAR236C

Sunday, 3/4, 10 am–3 pm
John Beirne | NYBG | 183GAR236D

\$119/\$129

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.

Monday, 3/5, 6–9 pm
Doris Loechele | Manhattan | 183GAR146

\$55/\$59

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.

Tuesday, 3/6, 10:30 am–3 pm
Sheri Forster | Manhattan | 183GAR173C

Saturday, 3/24, 10:30 am–3 pm
Richard Rosiello | Manhattan | 183GAR173D

\$79/\$85

COMPOST: THE KEY TO HEALTHY GARDENS

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

Monday, 3/12, 6–8 pm
Claudia Joseph | Manhattan | 183GAR251

Tuesday, 5/8, 6–8 pm
Claudia Joseph | NYBG | 184GAR251A

\$39/\$45



DESIGNING WINNING PLANT COMBINATIONS

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

2 Wednesdays, 3/14 & 3/21, 10:30 am–1 pm
Sheri Forster | NYBG | 183GAR321

\$125/\$139 *Certificate Elective*

NEW! BUILDING A GREEN WALL

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

Thursday, 3/15, 10 am–2 pm
Chris Raimondi | NYBG | 183LAN120

\$145/\$159

GARDEN DESIGN WORKSHOP

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

2 Saturdays, 3/17 & 3/24, 10 am–2:30 pm
Daryl Beyers | New Canaan Nature Center
New Canaan, Conn. | 183GAR317B

2 Saturdays, 5/19 & 6/2, 10 am–2:30 pm
Daryl Beyers | NYBG | 184GAR317A

\$225/\$249 *Certificate Elective*

SPRING ROSE CARE

Learn the secrets of cultivating magnificent roses in your garden. Gain practical advice on how and where to plant, prune, and care for roses, and learn which types will grow best in your garden. Pruning will take place in the Peggy Rockefeller Rose Garden. Please bring work gloves and pruning shears, and dress comfortably for work and the weather.

Saturday, 4/7, 12–3:30 pm
Ken Molinari | NYBG | 184GAR313

\$75/\$85 *Certificate Elective*

SOIL BASICS: GET IT RIGHT!

Don't treat your soil like dirt! Rich, nutritious soil makes for large, healthy plants and reduces the need for regular fertilization. Learn the difference between soil structure and texture, how these differences affect plant growth, and how you can modify your soil to improve its qualities. Give your garden a solid foundation, and you'll reap the benefits for years to come.

Saturday, 4/28, 2–4 pm
Manny Grossman | NYBG | 184GAR104

\$39/\$45

HEALTHY GARDEN ECOSYSTEMS

Build healthy plant communities that will bring birds, butterflies, and bees back to your garden. Your decisions about plant selection, garden design, and soil can help restore the natural balance in your yard, while creating a beautiful, ecologically sound landscape. Please bring lunch.

2 Fridays, 4/13 & 4/20, 10 am–2:30 pm
Kim Eierman | NYBG | 184GAR306

\$155/\$169 *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, 4/14, 9 am–4 pm
Michele Langone | NYBG | 184GAR323

\$139/\$155 *Certificate Elective*

CONTAINER GARDENING

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

2 Sundays, 4/15 & 4/22, 10 am–2:30 pm
Renee Marsh | NYBG | 184GAR327A

2 Mondays, 5/7 & 5/14, 10 am–2:30 pm
Daryl Beyers | Manhattan | 184GAR327B

\$229/\$249 *Certificate Elective*

RESTORE YOUR GARDEN'S ECOLOGY

Gardens are ecosystems teeming with life. The plants we choose and gardening techniques we use matter. As gardeners, we must use best practices in our own backyards to positively impact conservation across the larger landscape, such as preventing invasive species and building plant communities. Jessica Arcate Schuler, Director of the Thain Family Forest, shares lessons from the successful, ongoing effort to restore and manage NYBG's old-growth forest and tips on what you can do to restore your own garden's ecology.

2 Saturdays, 4/7 & 4/14, 10:30 am–1:30 pm
Jessica Arcate Schuler | NYBG | 184GAR217

\$115/\$125

CREATING A HIGH-YIELD CUTTING GARDEN

The cutting garden is enjoying a resurgence as gardeners realize that a small corner patch can provide natural bouquets and centerpieces year-round. Discover the best plants to grow for each season (line, mass, filler, focal, and greens), with a variety of textures for beautiful arrangements. Learn to properly cut and condition your plants to ensure there are plenty of flowers all year round. Dress for the weather.

2 Saturdays, 5/5 & 5/12, 2–5 pm
Kathleen Salisbury | NYBG | 184GAR237

\$115/\$125

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, 4/28, 10:30 am–1:30 pm
Daryl Beyers | NYBG | 184GAR326

\$55/\$59 *Certificate Elective*

WHIP YOUR GARDEN INTO SHAPE

Make your garden picture-perfect in a few simple steps. Learn tips from a pro on how to assess, clean up, and enhance your garden with basic tasks such as dead-heading, staking, edging, and adding late-season plants. Bring your pruners and gloves—students will receive hands-on, outdoor instruction on all these gardening techniques. Class is held rain or shine. Please dress for the weather.

Monday, 5/21, 10 am–1 pm
Daryl Beyers | New Canaan Nature Center,
New Canaan, Conn. | 184GAR180

\$55/\$59



NEW! 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, 5/5, 10:30 am–1:30 pm
Lorraine Ballato | NYBG | 184GAR142

\$65/\$69

NEW! WILDFLOWER GARDENING

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

Friday, 5/18, 10 am–1 pm
Kim Eierman | NYBG | 184GAR110

\$65/\$69

NEW! EVERYTHING I LEARNED ABOUT ROSES

Don't miss this rare chance to hear from Stephen Scanniello, Peggy Rockefeller Rose Garden Curator, often called the "rock star of roses." The President of the Heritage Rose Foundation and author of six books, Scanniello will regale you with stories and lessons he's learned over the years—from the importance of treating your roses as plants not display objects to understanding that not every rose is for every garden. He'll lead you on an insider's tour of NYBG's Rose Garden in what should be peak bloom to cap the day.

Wednesday, 6/6, 10 am–1 pm
Stephen Scanniello | NYBG | 184GAR909

\$75/\$85

NEW! NATIVE PLANT COMBINATIONS

Boost the beauty and ecology of your garden by planting native species in communities inspired by nature. Explore a variety of successful plant combinations that will work well in any garden—be it a small, urban space or a large landscape. Find out how to select the best plants for your particular site conditions, while considering how their bloom times, colors, heights, and shapes work together.

2 Thursdays, 6/7 & 6/14, 10 am–1 pm
Kim Eierman | NYBG | 184GAR105

\$125/\$139

Garden Varieties: Summer All-Stars

Dahlias, peonies, and hydrangeas are among the most popular garden stars. Like a friendship that deepens the more time you spend together, digging deeper into the history and cultivation of a favorite genus can add layers of meaning to why we grow and enjoy the plants we choose. These courses are ideal for the plant lover eager to know more or the casual gardener unfamiliar with the vast potential of a plant that may have been taken for granted.



©Francis Palmer

DAUNTLESS DAHLIAS

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

Saturday, 3/24, 11 am–2 pm | Frances Palmer | NYBG | 183GAR243
\$55/\$59

**LUSH PEONIES**

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

Tuesday, 5/1, 10 am–1 pm | Daniel Furman | NYBG | 184GAR242
\$55/\$59

**FOOLPROOF HYDRANGEAS**

From 18-inch, container-sized, reblooming beauties to 6-foot seasonal explosions of multicolored zing, there is a hydrangea for every garden. Lorraine Bollato, author of the newly published *Success with Hydrangeas*, will use visuals and discussion to examine hardy cultivars and the proper care and pruning requirements of hydrangeas. Weather permitting, the class will head outdoors to observe superb specimens on the Garden grounds.

Saturday, 6/23, 10 am–1 pm | Lorraine Ballato | NYBG | 184GAR255
\$55/\$59

NEW! ADAPTING THE JAPANESE GARDEN FOR THE AMERICAN LANDSCAPE

Join Stephen Morrell for an in-depth look at the beauty and simplicity of Japanese gardens, and enjoy a rare opportunity to tour the Rockefeller Japanese Garden, one of the east coast's finest examples. We'll begin the day at NYBG discussing the evolution of centuries-old Japanese design principles and how they can be adapted in America. In the afternoon, we'll travel to the Japanese Garden at Pocantico in Westchester for an intimate tour and tea ceremony demonstration in the sukiya-shoin style tea house designed by the renowned Tokyo architect, Junzo Yoshimura.

Monday, 6/25, 9:30 am–3:30 pm
Stephen Morrell | NYBG | 184LAN159

\$195/\$215

NEW! DRINK FROM YOUR GARDEN

Turn your homegrown herbs and fruits into sophisticated drinks! Michael Blakeney, a private estate gardener whose botanical beverages have been featured in *The New York Times Magazine*, will show you how. He'll demonstrate how to concoct shrubs, or infusions made with vinegar, that can be mixed with seltzer or alcohol, using what's in season—from a summery basil strawberry shrub to an autumnal one featuring cinnamon and apple. Discuss the best ways to combine flavors and plan your garden, all while sipping refreshing samples on the deck of our newly opened Edible Academy overlooking the Bronx River.

Thursday, 7/12, 6:30–8:30 pm
Michael Blakeney | NYBG | 191GAR123A

Thursday, 8/16, 6:30–8:30 pm
Michael Blakeney | NYBG | 191GAR123B

\$75/\$85

CERTIFICATE CLASSES

Courses are open to Non-Certificate students.

BOTANICAL LATIN

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

5 Mondays, 3/12–4/9, 6:15–8:15 pm
Jennifer Bakshi | Manhattan | 183GAR360D

\$255/\$279 *Certificate Elective*

FUNDAMENTALS OF GARDENING

This course is also required for the Horticultural Therapy Certificate.

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

4 Saturdays, 3/10–4/7 (no class 3/31), 10 am–1 pm
Michael Ruggiero | NYBG | 183GAR301F

4 Tuesdays, 4/3–4/24, 6:15–9:15 pm
Manny Grossman | Manhattan | 184GAR301A

4 Tuesdays, 4/17–5/8, 10 am–1 pm
Michael Ruggiero | New Canaan Nature Center
184GAR301B

4 Thursdays, 5/3–5/24, 10 am–1 pm
Daryl Beyers | NYBG | 184GAR301C

4 Saturdays, 6/2–6/23, 11 am–2 pm
Michael Blakeney, Ph.D. | NYBG | 184GAR301D

4 Tuesdays, 7/17–8/7, 6:15–9:15 pm
Manny Grossman | Manhattan | 191GAR301E


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

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

\$295/\$325 *Certificate Requirement*

FUNDAMENTALS OF GARDEN DESIGN

This class introduces basic garden design principles using the interplay of structural features, plant characteristics, and site assessment. Learn to creatively combine trees, shrubs, perennials, annuals, and bulbs based on color, shape, texture, and size.

 Prerequisite: *Plants for Landscaping*

4 Thursdays, 3/8–3/29, 6:15–9:15 pm
Daryl Beyers | Manhattan | 183GAR342C

\$285/\$315 *Certificate Requirement*



Summer Veggies... plus a few fruits and herbs

SUPER SMALL SPACE VEGGIE GARDENING

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

3 Tuesdays, 3/13–3/27, 6–9 pm
Annie Novak | Manhattan | 183GAR102

\$169/\$185

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.

Tuesday, 4/17, 2–5 pm
Leda Meredith | NYBG | 184GAR329

\$55/\$59 *Certificate Elective*

SOIL SCIENCE FOR GARDENERS

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

4 Thursdays, 4/5–4/26, 10 am–1 pm
Manny Grossman | NYBG | 184GAR302

\$285/\$315 *Certificate Requirement*

NEW! MASTERING THE ART OF TOMATO GARDENING

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

Thursday, 4/26, 6–9 pm
Annie Novak | Manhattan | 184GAR143A

Thursday, 9/20, 6–9 pm
Annie Novak | Manhattan | 191GAR143B

\$55/\$59

LATE-SEASON HARVEST

The bounty from your vegetable garden doesn't have to end on Labor Day! Identify which veggies will thrive in the fall months, improving in flavor as the weather cools. Learn what to plant and when for a peak fall harvest, as well as how to protect against late season pests and frost.

Saturday, 9/15, 6:15–8:15 pm
Nick Storrs | NYBG | 191GAR262

\$39/\$45

GARDENING WITH NATIVE PLANTS


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

3 Tuesdays, 5/15–5/29, 6:15–9:15 pm
Brad Roeller | NYBG | 184GAR315A

3 Thursdays, 8/2–8/16, 6:15–9:15 pm
Brad Roeller | NYBG | 191GAR315B

\$215/\$239 *Certificate Requirement*

VEGETABLE GARDENING


Examine pre-planting procedures, from soil preparation to crop rotation planning. Study the timing and techniques of planting, pest management, and harvest and post-harvest handling. Survey heirloom varieties, new cultivars, and classic selections.  Prerequisites: *Fundamentals of Gardening* and *Soil Science for Gardeners* or *Soil Science I*

4 Wednesdays, 5/2–5/23, 6:15–8:15 pm
Michael Blakeney | NYBG | 184GAR431A

4 Mondays, 7/9–7/30, 6:15–8:15 pm
Graham Glauber | Manhattan | 191GAR431B

\$179/\$195 *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, 5/31–7/12 (no class 7/5),
5:30 pm–8:30 pm
Mabee Weinstein | NYBG | 184GAR440

\$445/\$489 *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, 5/30–6/20, 5:15–8:15 pm
Don Gabel | NYBG | 184GAR320

\$285/\$319 *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 Wednesdays, 8/15–9/12 (no class 9/5),
5:15–8:15 pm
Don Gabel | NYBG | 191GAR324

\$285/\$319 *Certificate Requirement*

**Vegetable Gardener's Saturday**

APRIL 21 | Watson Education Building, NYBG

Fresh, homegrown vegetables are healthy and flavorful, and don't have to be difficult to grow. Learn how to properly prepare beds and soils; gain key tips on planting and sowing seeds; discover ecologically friendly ways to keep pests at bay so you can have the vegetable garden you've always wanted!

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 | 184GAR201B

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.

Xenia D'Ambrosi | 184GAR201C

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.

Graham Glauber | 184GAR201D

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

All Three Sections:

NYBG | 184GAR201A | \$99/\$109

Bonsai for Beginners *Weekend 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.

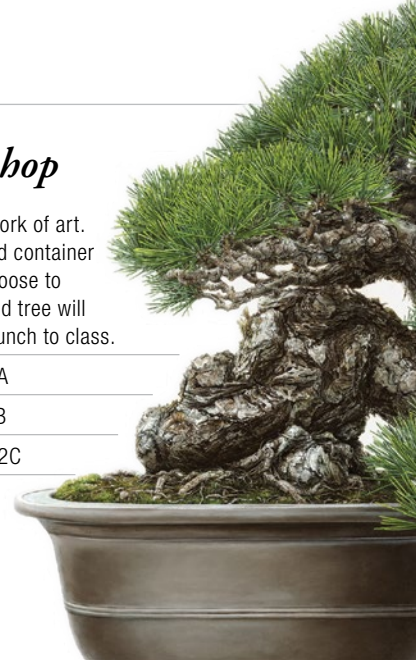
Sunday, 5/20, 10 am–3:30 pm | John Capobianco | NYBG | 184GAR912A

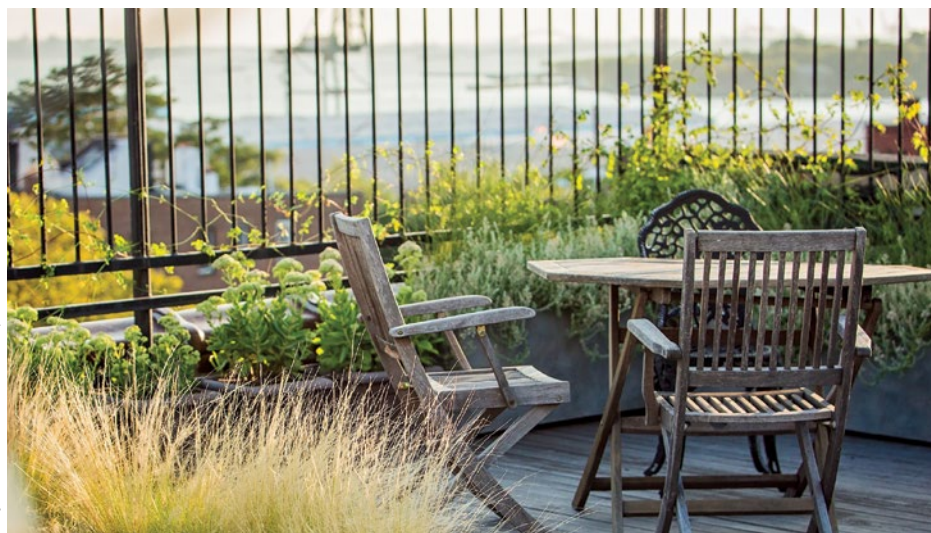
Sunday, 6/10, 10 am–3:30 pm | John Capobianco | NYBG | 184GAR912B

Saturday, 6/23, 10 am–3:30 pm | John Capobianco | NYBG | 184GAR912C

\$195/\$215

Illustration: ©Asuka Hishiki. Black Pine Half-Cascade-Style Bonsai (2015-2017), *Pinus nigra*, Omiya Bonsai Art Museum, Saitama, Japan, oil on paper





Terrace Gardener's Saturday

JUNE 16 | Midtown Education Center, Manhattan

Gardens tucked into roofs and balconies beautify our urban mosaic and connect us to nature. But every urban terrace gardener knows the challenge of dealing with conditions like harsh sun, perpetual shade or relentless wind, and managing plants confined to containers. Learn how to tailor your plant choices for pots and planters while developing simple maintenance techniques to keep a harmonious terrace garden that's healthy and lush all season long.

10 am–12 pm

GREAT PLANTS FOR TERRACE GARDENS

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

Michele Langone | Manhattan | 184GAR226B

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 | 184GAR226C

3–5 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.

Graham Glauber | Manhattan | 184GAR226D

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

All Three Sections:
Manhattan | 184GAR226A | \$99/\$109

All About Containers Saturday

MAY 5

Midtown Education Center, Manhattan

MAY 12

Watson Education Building, NYBG

No land? No problem! Containers can bring added color, form, and texture to any space—deck, rooftop, terrace, front porch, or window sill. With the right combination of plants, containers provide visual impact, create a small garden, and add pleasure to your living area. Sun or shade, ornamental or edible, find out what kind of container garden is right for you. Please bring lunch.

10 am–12 pm

CONTAINER GARDENING 101

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

Daryl Beyers | May 5 | Manhattan | 184GAR200B

Daryl Beyers | May 12 | NYBG | 184GAR200F

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 5 | Manhattan | 184GAR200C

Graham Glauber | May 12 | NYBG | 184GAR200G

3–5 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 5 | Manhattan | 184GAR200D

Richard Rosiello | May 12 | NYBG | 184GAR200H

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

All Three Sections:
Manhattan | 184GAR200A | \$99/\$109
NYBG | 184GAR200E | \$99/\$109

HORTICULTURE



Family Asteraceae

Species *Cirsium pastoris*

Collectors' Field Notes United States. California. Lassen Co.: North end of Petersen Mountain, near US 395, 8 miles north of junction with Calif. 70 (Hallelujah Junction). Elevation 5000 feet. Frequent on south facing slope among juniper and sagebrush. Heads with red coloration.

Noel H. Holmgren 4377 25 June 1970

John J. Fay, Barton L. Bethers

Scientific specimen in the William and Lynda Steere Herbarium at NYBG

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

THE CERTIFICATE PROGRAM

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

TRACK 1: PLANT PRODUCTION

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

TRACK 2: SUSTAINABLE LANDSCAPE MANAGEMENT

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

TRACK 3: ARBORICULTURE

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

TRACK 4: SUSTAINABLE GARDEN DESIGN

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

CERTIFICATE REQUIREMENTS

COURSE	CODE	HOURS*	PAGES
PLANT PRODUCTION—TRACK 1			
Introduction to Plant Science	HRT 300	16	33
Soil Science I: Physical Properties	HRT 301	18	33
Soil Science II: Chemistry and Nutrition	HRT 302 P	16	33
Horticultural Techniques: Greenhouse Practices**	HRT 312 P	15	—
Insect Pests of Landscape Plants	HRT 381 P	18	35
Plant Propagation I: Basic Principles	HRT 411 P	18	35
Plant Propagation II: Applications**	HRT 412 P	17	—
Disease Identification & Management	HRT 481 P	18	35
Nursery and Greenhouse Management**	HRT 491 P	24	—
TOTAL REQUIRED HOURS		160	

*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.



"The Sustainable Garden Design Track in Horticulture gave me a solid foothold to begin mastering the rigorous art of horticulture. Since graduating, I've confidently expanded my garden design business, knowing that I have the latest knowledge in the trade... and that I'm able to speak Botanical Latin a whole lot better!"

— ZOPI KRISTI JANSON, 2017 Graduate
Principal Designer, Moongate Garden Design



**GET NYBG
CERTIFIED**

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

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

CERTIFICATE REQUIREMENTS (cont.)

COURSE	CODE	HOURS*	PAGE
SUSTAINABLE LANDSCAPE MANAGEMENT—TRACK 2			
Introduction to Plant Science	HRT 300	16	33
Soil Science I: Physical Properties	HRT 301	18	33
Soil Science II: Chemistry and Nutrition	HRT 302 P	16	33
Horticultural Techniques: Landscape Gardening	HRT 311 P	18	34
Pruning Principles and Practices**	HRT 321 P	15	—
Basic Design and Installation of Irrigation Systems	HRT 323	12	35
Starting a Small Landscaping Business**	HRT 349	14	—
Insect Pests of Landscape Plants	HRT 381 P	18	35
Tree Management**	HRT 422 P	14	—
Landscape Management**	HRT 443 P	24	—
Disease Identification & Management	HRT 481 P	18	35
Weed Identification & Management	HRT 482 P	12	35
Mathematics for Horticulturists**	HRT 356	6	—
TOTAL REQUIRED HOURS		201	
ARBORICULTURE—TRACK 3			
Introduction to Plant Science	HRT 300	16	33
Soil Science I: Physical Properties	HRT 301	18	33
Soil Science II: Chemistry and Nutrition	HRT 302 P	16	33
Tree Climbing for Arborists	HRT 304	15	35
Chainsaws: Use, Safety, and Maintenance**	HRT 308	6	—
Pruning Principles and Practices**	HRT 321 P	15	—
Landscape Plants: Fall Trees and Shrubs	HRT 331 P	12	34
Landscape Plants: Conifers**	HRT 333 P	12	—
Landscape Plants: Spring Trees and Shrubs	HRT 334 P	12	33
Insect Pests of Landscape Plants	HRT 381 P	18	35
Tree Management**	HRT 422 P	14	—
Urban Tree Care	HRT 426 P	12	35
Winter Tree Identification**	HRT 440 P	8	—
Disease Identification & Management	HRT 481 P	18	35
TOTAL REQUIRED HOURS		192	
SUSTAINABLE GARDEN DESIGN—TRACK 4			
Introduction to Plant Science	HRT 300	16	33
Soil Science I: Physical Properties	HRT 301	18	33
Landscape Plants: Broadleaved Evergreens**	HRT 332 P	9	—
Landscape Plants: Spring Trees and Shrubs	HRT 334 P	12	33
Landscape Plants: Spring Perennials	HRT 336 P	9	34
Landscape Plants: Summer and Fall Perennials	HRT 337 P	9	34
Landscape Plants: Grasses	HRT 340 P	9	34
Landscape Plants: Annuals	HRT 341 P	8	34
Landscape Plants: Bulbs	HRT 342 P	12	33
Annual and Perennial Garden Maintenance	HRT 344 P	8	35
Plants for Landscaping	HRT 358	16	33
Tropical Plants	HRT 361 P	15	34
Sustainable Garden Design	HRT 551 P	20	34
Landscape Design History	LAN 301	24	44
Graphics I	LAN 311	24	44
TOTAL REQUIRED HOURS		209	

*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.

THE CLASSES

PLANT COMMUNITIES WORKSHOP

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

2 Fridays, 6/15 & 6/22, 9 am–1:30 pm
 Uli Lorimer | NYBG | 184HRT140

\$169/\$185

NEW! 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.

P Prerequisite: *Intro to Plant Science*

5 Tuesdays, 5/1–5/29, 6:15–9:15 pm
 Maya Kutz & Kate Lodvikov | NYBG | 184HRT141

\$199/\$219





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 Tuesdays, 3/20–5/1, 10 am–12:40 pm
Manny Grossman | NYBG | 183HRT300A

7 Sundays, 4/8–6/10 (no class 5/13, 5/27, & 6/3),
10 am–12:40 pm
Regina Alvarez | NYBG | 184HRT300B

4 Mondays and 3 Thursdays, 6/25–7/23
(no class 7/2 & 7/5), 6:15–8:55 pm
Manny Grossman | Manhattan | 184HRT300C

4 Mondays and 3 Thursdays, 7/30–8/20,
6:15–8:55 pm
Manny Grossman | Manhattan | 191HRT300D

7 Saturdays, 9/8–10/27 (no class 10/6),
10 am–12:40 pm
Christopher Satch | Manhattan | 191HRT300F

7 Thursdays, 9/27–11/8, 10:30 am–1:10 pm
Anya Paltseva | NYBG | 191HRT300E

\$395/\$435

SOIL SCIENCE I: PHYSICAL PROPERTIES

ALL TRACKS

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

7 Thursdays, 3/15–4/26, 10:30 am–1:30 pm
Anya Paltseva | NYBG | 183HRT301D

7 Thursdays, 6/14–7/26, 10 am–1 pm
George Lozefski | NYBG | 184HRT301A

7 Wednesdays, 8/1–9/12, 10:30 am–1:30 pm
George Lozefski | NYBG | 191HRT301B

\$455/\$495

SOIL SCIENCE II: CHEMISTRY AND NUTRITION

TRACKS 1, 2, & 3

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

Prerequisite: *Soil Science I*

7 Thursdays, 5/17–6/28, 6:15–8:55 pm
George Lozefski | NYBG | 184HRT302A

7 Wednesdays, 5/30–7/18 (no class 7/4),
10 am–12:40 pm
George Lozefski | NYBG | 184HRT302B

\$395/\$445

LANDSCAPE PLANTS: BULBS

TRACK 4

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

7 Thursdays, 3/15–4/26, 10 am–12 pm
Marta McDowell | NYBG | 183HRT342A

7 Thursdays, 3/15–4/26, 4:30–6:30 pm
Michael Hagen | NYBG | 183HRT342S

\$295/\$325

LANDSCAPE PLANTS: SPRING TREES AND SHRUBS

TRACK 3 & 4

This course is also required for the Landscape Design Certificate.

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

5 Saturdays, 4/7–5/12 (no class 4/28),
10:30 am–1:30 pm
Vincent Simeone | NYBG | 184HRT334A

5 Wednesdays, 4/11–5/9, 10 am–1 pm
Michael Ruggiero | NYBG | 184HRT334B

5 Thursdays, 4/12–5/10, 1:30–4:30 pm
Michael Ruggiero | NYBG | 184HRT334C

5 Thursdays, 4/12–5/10, 5–8 pm
Michael Ruggiero | NYBG | 184HRT334D

\$295/\$325

PLANTS FOR LANDSCAPING

TRACK 4

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

5 Saturdays, 4/21–5/19, 10:30 am–1:45 pm
Valerie D'Antonio | NYBG | 184HRT358A

6 Tuesdays, 5/15–6/19, 10 am–12:40 pm
Michael Ruggiero | New Canaan Nature Center
184HRT358B

5 Saturdays, 6/2–6/30, 10:30 am–3 pm
Vincent Simeone | NYBG | 184HRT358C

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

6 Fridays, 9/28–11/2, 10 am–12:40 pm
Valerie D'Antonio | NYBG | 191HRT358E

\$395/\$435

Exam on last class date.



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 Saturdays, 4/28–5/19, 10:30 am–1:30 pm
David Sharkey | NYBG | 184HRT336A

4 Fridays, 5/18–6/15 (no class 5/25), 10 am–1 pm
Michael Ruggiero | NYBG | 184HRT336B

4 Wednesdays, 6/6–6/27, 4:30–7:30 pm
Katie Bronson | NYBG | 184HRT336S

\$219/\$239

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 Saturdays, 6/9–7/14 (no class 6/30) 12–2 pm
Michael Ruggiero | NYBG | 184HRT341A

5 Wednesdays, 6/27–8/1 (no class 7/4), 10:30 am–12:30 pm
Michael Ruggiero | NYBG | 184HRT341B

\$195/\$215

LANDSCAPE PLANTS: GRASSES TRACK 4

Add depth and texture to the landscape with the careful selection and use of a variety of ornamental grasses. Be amazed by the wealth of opportunities to create height in a border from as little as 6 inches to 12 feet and more. Learn about design elements in the planning cycle, planting techniques, and long-term maintenance. Methods of managing pests, diseases, and weeds are discussed. Prerequisite: *Introduction to Plant Science*

5 Thursdays, 7/26–8/23, 2–4:15 pm
Bill Kolvek | NYBG | 191HRT340A

5 Thursdays, 7/26–8/23, 6:15–8:30 pm
Bill Kolvek | NYBG | 191HRT340B

\$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*

8 Tuesdays, 7/10–8/28, 5–7:10 pm
Songsuk Kim | NYBG | 191HRT361A

\$355/\$395

SUSTAINABLE GARDEN DESIGN TRACK 4

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

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

7 Saturdays, 9/8–10/27 (no class 10/6), 10 am–12:50 pm
Laura McKillop | NYBG | 191HRT551

\$485/\$535



LANDSCAPE PLANTS: SUMMER AND FALL PERENNIALS TRACK 4

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

Prerequisite: *Introduction to Plant Science*

4 Wednesdays, 9/5–10/3 (no class 9/19), 10 am–1 pm

Jeanne Lapsker | NYBG | 191HRT337S

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

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

\$219/\$239

LANDSCAPE PLANTS: FALL TREES AND SHRUBS TRACK 3

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

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

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

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

\$295/\$325

HORTICULTURAL TECHNIQUES: LANDSCAPE GARDENING TRACK 2


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


6 Tuesdays, 3/13–4/17, 4:30–7:30 pm, and Tuesday, 3/27, 10 am–4 pm (rain date 3/28, 10 am–4 pm)
Mobee Weinstein | NYBG | 183HRT311P

6 Wednesdays, 3/14–4/18, 4:30–7:30 pm, and Tuesday, 3/27, 10 am–4 pm (rain date: 3/28, 10 am–4 pm)
Mobee Weinstein | NYBG | 183HRT311S


\$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, 4/16–6/4  (no class 5/28), 6–9 pm
Michael Ruggiero | NYBG | 184HRT411A

3 Tuesdays & 3 Thursdays, 7/10–7/26, 5:45–8:45 pm
Nick Storrs | Manhattan | 191HRT411C


4 Mondays & 3 Thursdays 7/30–8/20  (no class 8/13), 10 am–1 pm
Michael Ruggiero | NYBG | 191HRT411B


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

7 Tuesdays, 9/25–11/6  (no class 10/13), 5:45–8:45 pm
Nick Storrs | NYBG | 191HRT411P

\$479/\$525


WEED IDENTIFICATION & MANAGEMENT TRACK 2


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

5 Mondays, 4/2–5/7  (no class 4/23),
4:30–7:30 pm
David Laswell | NYBG | 184HRT482

\$355/\$395


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 Tuesdays, 5/8–6/26  (no class 5/29),
4:30–7:30 pm
Trevor Hall | NYBG | 184HRT381S

\$435/\$479

DISEASE IDENTIFICATION & MANAGEMENT TRACKS 1, 2, & 3

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

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

7 Saturdays, 9/8–10/27  (no class 10/6),
10 am–1 pm
Kevin G. Kenney | NYBG | 191HRT481A

\$475/\$495


BASIC DESIGN AND INSTALLATION OF IRRIGATION SYSTEMS TRACK 2


Learn how to design, install, and maintain conventional, specialty drip, and micro-drip irrigation systems. Drip systems are useful for rooftop and terrace gardens, planters, raised beds, and many landscape and nursery production systems. We will cover basic hydraulics and review the best irrigation products. Learn to troubleshoot, practice visual maintenance, and identify service requirements. Design books supplied. Please bring lunch.

Tuesday & Wednesday, 4/3 & 4/4, 10 am–4:30 pm
Robert Schilke | NYBG | 184HRT323

\$295/\$329

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 Thursdays, 5/10–6/7  (no class 5/24), 6–9 pm
Julian Picciano | NYBG | 184HRT426

\$295/\$325

TREE CLIMBING FOR ARBORISTS TRACK 3


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


3 Saturdays, 6/9–6/23 (rain date 7/7), 9 am–2:30 pm
Julian Picciano and Francisco Davila | NYBG
184HRT304

\$395/\$435

ANNUAL AND PERENNIAL GARDEN MAINTENANCE TRACK 4

Learn how to manage annual and perennial gardens using a variety of in-season and post-season maintenance practices. Topics include soil and weed management, watering, basic pest identification and control, and seasonal clean-up. Develop a management plan for a small perennial garden.


 Prerequisites: *Soil Science I* and *Plants for Landscaping* or *Landscape Plants: Perennials*

4 Saturdays, 3/17–4/14  (no class 3/31),
10 am–12:40 pm
Deirdre Carsto | NYBG | 183HRT344

\$195/\$215

ENTOMOLOGY

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

6 Saturdays, 6/2–7/14  (no class 6/30),
10:30 am–1:30 pm
Tam Nguyen | NYBG | 184HRT480

\$355/\$395 *Certificate Elective*



 Exam on last class date.

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

HORTICULTURAL THERAPY



Family Fabaceae

Species *Lotus corniculatus*

Collectors' Field Notes United States. Maryland. Garrett Co.: Mountain Lake Park, Oakland, Broadford Lake, between Recreation Lane and the lake near the baseball fields, growing in wet meadow near the lake shore.

Wayne D. Longbottom 15108 29 May 2011

Gary Van Velsir

Scientific specimen in the William and Lynda Steere Herbarium at NYBG

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 11–August 25

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.

THE CLASSES

Introduction to Horticultural Therapy

Monday, Wednesday, & Friday, 6/11, 6/13, & 6/15
10 am–3:30 pm | 184THR301B

Horticultural Therapy for Older Adults

Monday, Wednesday, & Friday, 6/18, 6/20, & 6/22
10 am–3:30 pm | 184THR401

Horticultural Therapy for Exceptional Youth

Monday, Wednesday, & Friday, 6/25, 6/27, & 6/29
10 am–3:30 pm | 184THR402B

Horticultural Therapy for Physical Rehabilitation

Monday, Wednesday, & Friday, 7/9, 7/11, & 7/13
10 am–3:30 pm | 191THR403B

Activities Analysis for Horticultural Therapy

Saturdays, 7/14–7/28
10 am–3:30 pm | 191THR407

Garden Design for Special Populations

Tuesday, Thursday, 7/17, 7/19, 7/4, & 7/26
10 am–2 pm | 191THR408

Horticultural Therapy Methods and Materials

Tuesday, Thursday, & Saturday, 7/31, 8/2, & 8/4
10 am–3:30 pm | 191THR406

Horticultural Therapy in Behavioral Health Settings

Tuesday, Wednesday, & Friday, 8/7, 8/9, & 8/10
10 am–3:30 pm | 191THR404B

Horticultural Therapy Program Management

3 Saturdays, 8/11–8/25
10 am–3:30 pm | 191THR409B

Site visits are also scheduled in July and August. See class listings on page 39 for descriptions, instructors, and fees.



“To enhance my work in garden education at BBG, I began the Horticultural Therapy Certificate Program. Thanks to the expertise of the outstanding instructors—all active professionals—I’ve expanded my job to include working with teens with autism and designing a Memory Tour for visitors with dementia and their caregivers. The Horticultural Therapy Program has added a meaningful dimension to my career.”

— JOANNE D'AURIA, 2017 Graduate
School Workshop Coordinator,
Brooklyn Botanic Garden

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 (191 required + 8 site visit hours), plus a 100-hour internship. After completing a minimum of six courses, students should contact the Program Coordinator to arrange for their internship. To be considered for graduation on June 3, 2018, all internship documentation must be submitted to the Registration Office by May 11, 2018.

COURSE	CODE	HOURS	PAGE
Introduction to Horticultural Therapy	THR 301	15	38
Horticultural Therapy for Exceptional Youth	THR 402 P	15	39
Horticultural Therapy for Physical Rehabilitation	THR 403 P	15	38
Horticultural Therapy for Older Adults	THR 401 P	15	38
Fundamentals of Gardening	GAR 301 P	12	27
Horticultural Therapy in Behavioral Health Settings	THR 404 P	15	39
Horticultural Therapy Methods and Materials	THR 406 P	15	39
Activities Analysis for Horticultural Therapy	THR 407 P	15	39
Introduction to Plant Science	HRT 300	16	33
Plant Propagation I: Basic Principles	HRT 411 P	18	35
Garden Design for Special Populations	THR 408 P	15	39
Horticultural Therapy Program Management	THR 409 P	15	39
Horticultural Therapy Site Visits (see list below)		8	39
TOTAL REQUIRED HOURS		189	

SITE VISITS	CODE	HOURS	PAGE
NYU Langone Medical Center, Therapeutic Horticulture Services	THR 525 P	5	39
The HSNY's GreenHouse Program on Rikers Island	THR 537 P	6	39
Cardinal Cooke Health Center	THR 528 P	4	39
Good Samaritan Regional Medical Center: The Garden of Hope Westchester Medical Health Center Network	THR 546 P	4	39

P Courses with a prerequisite before you can register



COLLEGE CREDIT RECOMMENDATION

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

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

THE CLASSES

For full day classes, please bring lunch.

INTRODUCTION TO HORTICULTURAL THERAPY

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

3 Saturdays, 3/3–3/17, 10 am–3:30 pm
Anne Meore, HTR | NYBG | 183THR301D

3 Saturdays, 4/21–5/5, 10 am–3:30 pm
Anne Meore, HTR | NYBG | 184THR301A

Monday, Wednesday, & Friday, 6/11, 6/13, & 6/15,
10 am–3:30 pm

Anne Meore, HTR | NYBG | 184THR301B

\$365/\$399

HORTICULTURAL THERAPY FOR PHYSICAL REHABILITATION

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

3 Saturdays, 5/12–6/2 (no class 5/26),
10 am–3:30 pm
Matthew Wichrowski, HTR | NYBG | 184THR403A

Monday, Wednesday, & Friday, 7/9, 7/11, & 7/13,
10 am–3:30 pm
Matthew Wichrowski, HTR | NYBG | 191THR403B

\$389/\$429

HORTICULTURAL 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. **P** Prerequisite: *Introduction to Horticultural Therapy*

Monday, Wednesday, & Friday, 6/18, 6/20, & 6/22,
10 am–3:30 pm
Abby Jaroslow, HTR | NYBG | 184THR401

\$365/\$399

SITE VISITS

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

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



CARDINAL COOKE HEALTH CENTER

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

Tuesday, 3/13, 10:30 am–3:30 pm
Donna Arabian, HTR | Off site | 183THR528

\$135/\$149

NYU LANGONE MEDICAL CENTER, THERAPEUTIC HORTICULTURE SERVICES, MANHATTAN

The focus of this individualized intensive training is on physical medicine and rehabilitation. We'll discuss the history and philosophy of the program, and how the therapist functions within a healthcare team. Participate in horticulture treatment sessions that deal with patient functioning, treatment goals, and precautions.

Tuesday, 5/15, 9:30 am–2:30 pm
Matthew Wichrowski, HTR, and staff | Off site
184THR525A

Tuesday, 7/10, 9:30 am–2:30 pm
Matthew Wichrowski, HTR, and staff | Off site
191THR525B

\$135/\$149

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

Hands-on healing and learning through horticulture takes place at HSNY's GreenHouse program on Rikers Island. Designed and built by 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.

Wednesday, 7/18, 6:30 am–1 pm
Hilda Krus, HTR | Off site | 191THR537

\$135/\$149

GOOD SAMARITAN REGIONAL MEDICAL CENTER: THE GARDEN OF HOPE: WESTCHESTER MEDICAL HEALTH CENTER NETWORK

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, 8/13 (rain date 8/14), 9:30 am–2:30 pm
Anne Meore, HTR | Off site | 191THR546

\$135/\$149

HORTICULTURAL THERAPY FOR EXCEPTIONAL YOUTH

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

Monday, Wednesday, & Friday, 6/25, 6/27, & 6/29,
10 am–3:30 pm
Phyllis D'Amico, HTM | NYBG | 184THR402B

\$389/\$429

GARDEN DESIGN FOR SPECIAL POPULATIONS

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

4 Wednesdays, 3/14–4/11 (no class 3/21), 6–9 pm,
and 1 Saturday, 3/24, NYBG, 10 am–1 pm
Nancy Minich, HTR, RLA | Manhattan | 183THR408

2 Tuesdays & 2 Thursdays, 7/17–7/26, 10 am–2 pm
Nancy Minich, HTR, RLA | NYBG | 191THR408B

\$365/\$399

HORT THERAPY METHODS AND MATERIALS

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

[P] Prerequisites: *Horticultural Therapy for Physical Rehabilitation* (or approval of the Program Coordinator)

3 Wednesdays, 4/18–5/9 (no class 5/2), 5:30–8:30 pm,
and 1 Saturday, 5/5, 10 am–3:30 pm

Phyllis D'Amico, HTM, and John Beirne, HTR | NYBG
184THR406

Tuesday, Thursday, & Saturday, 7/31, 8/2, & 8/4,
10 am–3:30 pm

Phyllis D'Amico, HTM, and John Beirne, HTR | NYBG
191THR406

\$395/\$435

HORT THERAPY PROGRAM MANAGEMENT

Learn how to design and implement a horticultural therapy program in the private or public sector. Gain skills in developing program proposals, writing protocols, establishing evaluation methods and record-keeping policies, and managing staff and volunteers. Topics in business practices will include budget development and management, legal aspects of business establishment, and fundraising. **[P]** Prerequisites: Successful completion of *Behavioral Health Settings* (or approval of the Program Coordinator)

3 Saturdays, 5/19–6/9 (no class 5/26), 10 am–3:30 pm
Pat Czarnecki, HTR | NYBG | 184THR409

3 Saturdays, 8/11–8/25, 10 am–3:30 pm
Pat Czarnecki, HTR | NYBG | 191THR409B

\$389/\$429

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.

[P] Prerequisite: *Introduction to Horticultural Therapy*

Tuesday, Thursday, & Friday, 8/7, 8/9, & 8/10,
10 am–3:30 pm

Erin Backus, HTR | NYBG | 191THR404B

\$389/\$429

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

3 Saturdays, 7/14–7/28, 10 am–3:30 pm
Abby Jaroslow, HTR | NYBG | 191THR407

\$395/\$435

LANDSCAPE DESIGN



Family Anacardiaceae

Species *Rhus typhina*

Collector's Field Notes United States. Maryland. Queen Anne's Co.:
Town of Grasonville, Kent Narrows Way South, along the roadside.

Wayne D. Longbottom 17951 9 Aug 2012

Scientific specimen in the William and Lynda Steere Herbarium at NYBG

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 9–August 15

In five weeks, earn more than 25% 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!

THE 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 9–August 10, 9 am–5 pm | NYBG | 191LAN960

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 is due May 21; final payment is due June 18.

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

Class size is limited for individualized attention. Enroll now!



"NYBG's instructors were so hands-on—making sure we understood the fundamentals, sharing their invaluable business experience, and helping us think about how our designs impact the environment. With the confidence I derived from the program, I have started my own landscape design firm. Best of all, the NYBG classroom extends into one of the most incredible botanical gardens in the world. Whenever I was looking for inspiration, I would just walk the grounds. It doesn't get better than that."

— HADLEY L. PETERSON, 2017 Graduate
Owner, Hadley Peterson Landscape Design



**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
Nancy Gerlach-Spriggs, Program Advisor
William Harris Einhorn, Program Advisor

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

CERTIFICATE REQUIREMENTS

COURSE	CODE	HOURS	PAGE
TIER 1 – INTRODUCTORY CLASSES			
Landscape Design History	LAN 301	24	44
Graphics I	LAN 311	24	44
Landscape Measurement	LAN 340 P	12	44
Landscape Plants: Fall Trees and Shrubs	HRT 331 P	12	34
Landscape Plants: Spring Trees and Shrubs	HRT 334 P	12	33
Plants for Landscaping	HRT 358	16	33
TIER 2			
Landscape Design I: Site Analysis and Schematic Design	LAN 401 P	24	45
Landscape Design II: Design Development	LAN 402 P	24	45
Estimating**	LAN 380 P	9	—
Graphics II	LAN 411 P	24	45
Grading	LAN 421 P	24	45
Site Materials and Details	LAN 422 P	24	45
TIER 3			
Drainage	LAN 425 P	12	45
Graphics III	LAN 417 P	24	45
Landscape Design III: Planting Design	LAN 403 P	24	45
Professional Practice for Landscape Designers	LAN 485 P	12	45
Landscape Design IV: Design and Construction	LAN 520 P	33	45
Portfolio and Presentation Skills	LAN 555 P	15	45
TOTAL REQUIRED HOURS		349	

*Course hours do not include exam hours

** Courses offered in the Fall–Winter Catalog

P Courses with a prerequisite before you can register

For professional organizations, see p. 55.

STUDENT INFORMATION

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



THE CLASSES

INTRO TO LANDSCAPE DESIGN

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

3 Thursdays, 3/8–3/22, 10 am–1 pm
Sheri Forster | New Canaan Nature Center,
New Canaan, Conn. | 183LAN100D

3 Thursdays, 4/5–4/26 (no class 4/12), 10 am–1 pm
Daryl Beyers | NYBG | 184LAN100A

3 Thursdays, 7/19–8/2, 6:15–9:15 pm
Daryl Beyers | Manhattan | 191LAN100B

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

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

\$185/\$205

SUBURBAN LANDSCAPE DESIGN

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

Thursday, 3/22, 10 am–1 pm
Florence Boogaerts, APLD | NYBG | 183LAN160

\$59/\$65

INTRO TO GREEN WALLS

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

Monday, 4/16, 6–8 pm
Hanna Packer | Manhattan | 184LAN110

\$59/\$65



INTRO TO GREEN ROOFS

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

Wednesday, 5/30, 6–8 pm
Hanna Packer | Manhattan | 184LAN112

\$59/\$65

CITY ROOF DESIGN

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

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

\$59/\$65

PLANT COMMUNITIES WORKSHOP

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

2 Fridays, 6/15 & 6/22, 9 am–1:30 pm
Uli Lorimer | NYBG | 184HRT140

\$169/\$185

NEW! 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.

Thursday, 3/15, 10 am–2 pm
Chris Raimondi | NYBG | 183LAN120

\$145/\$159 *Certificate Elective*



©Chris Raimondi

DYNASCAPE: CAD FOR LANDSCAPE DESIGNERS

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

8 Wednesdays, 5/9–6/27, 10 am–1 pm
William Harris Einhorn, RLA | NYBG | 184LAN427

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

NEW! BASIC PLANT ID

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

2 Saturdays, 5/12 & 5/19, 10 am–1 pm
Katie Bronson | NYBG | 184BOT308A

2 Tuesdays, 6/19 & 6/26, 5–8 pm
Katie Bronson | NYBG | 184BOT308B

\$145/\$159

NEW! 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, 6/1 & 6/8, 10 am–2:30 pm
Gary Novasel | NYBG | 184LAN158

\$229/\$249

NEW! ADAPTING THE JAPANESE GARDEN FOR THE AMERICAN LANDSCAPE

Join Stephen Morrell for an in-depth look at the beauty and simplicity of Japanese gardens, and enjoy a rare opportunity to tour the Rockefeller Japanese Garden, one of the east coast's finest examples. We'll begin the day at NYBG discussing the evolution of centuries-old design principles that inform Japanese gardens and how they can be adapted in America. In the afternoon, we'll travel to the Japanese Garden at Pocantico in Westchester for an intimate tour and tea ceremony demonstration in the sukiya-shoin style tea house designed by the renowned Tokyo architect, Junzo Yoshimura. *Class size is limited.*

Monday, 6/25, 9:30 am–3:30 pm
Stephen Morrell | NYBG | 184LAN159

\$195/\$215



Zuiho-in Garden in the Daitoku-ji temple complex, Photo ©David Sand

Garden Study Tour in Kyoto, Japan

NOVEMBER 10–19, 2018



Brian Sullivan

November is a magical time to visit Japan, with the brilliant color of maple leaves, persimmons hanging to dry from the rafters of traditional houses, and showy chrysanthemums in front of every door. This tour, limited to 15 travelers, will include nine

nights in Kyoto, with visits to its famous gardens, including contemplative spaces in ancient temples, as well as modern stroll and pond gardens. In addition, tour members will meet local artisans who are masters of traditional crafts and enjoy meals of beautifully presented seasonal cuisine.

This study tour is organized for NYBG by Esprit Travels & Tours, recognized for 20 years as the premier tour company for cultural journeys to Japan. Fluent in Japanese, Esprit's expert guide Andy Bender is a travel and food writer who is a regular contributor to the *Los Angeles Times* and over a dozen guide books to Japan—from *Lonely Planet* to *Frommer's*. Brian Sullivan, Vice President for Landscapes and Glasshouses, and Lisa Whitmer, Director of Adult Education, will also accompany the tour.



Tenju-an Garden in the Nanzen-ji temple complex

Saturday–Monday, 11/10–11/19 | \$5,450/\$5,995*

Round trip travel to Kyoto is not included. For a single room, an additional \$145 fee is required.

To indicate your interest or for more information about the itinerary, please contact Lisa Whitmer, Director of Adult Education, at lwhitmer@nybg.org or 718.817.8595.

*Register by April 1 and receive the early bird rate of \$5,350/\$5,885.

REQUIREMENT CLASSES

These classes are also open to Non-Certificate students.

LANDSCAPE DESIGN HISTORY

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

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

9 Mondays, 3/19–5/14, 6:15–9:15 pm
Mark Bunnell, RLA | Manhattan | 183LAN301A

9 Wednesdays, 3/21–5/16, 10 am–1 pm
Paula Capps | NYBG | 183LAN301B

\$595/\$655 Certificate Requirement

LANDSCAPE MEASUREMENT

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

4 Sundays, 4/15–5/6 (rain date 5/20), 1:30–4:30 pm
Wayne Cahilly | NYBG | 184LAN340A

4 Saturdays, 4/14–5/5 (rain date 5/19), 10 am–1 pm
Sarah Hettinger | NYBG | 184LAN340B

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

\$295/\$329 Certificate Requirement

GRAPHICS I

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

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

8 Thursdays, 4/5–5/24, 10 am–1 pm
William Harris Einhorn, RLA | NYBG | 184LAN311A

8 Tuesdays, 5/8–6/26, 6:15–9:15 pm
Gustavo Capparelli | NYBG | 184LAN311B

Monday–Thursday, 7/9–7/19, 6–9 pm
Elizabeth Poccia | Manhattan | 191LAN311C

\$595/\$655 Certificate Requirement

LANDSCAPE DESIGN I: SITE ANALYSIS AND SCHEMATIC DESIGN

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

8 Thursdays, 4/26–6/14, 6:15–9:15 pm
Stephen Koren, RLA | Manhattan | 184LAN401

\$575/\$635 *Certificate Requirement*

GRAPHICS II

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

8 Thursdays, 4/5–5/24, 2–5 pm
William Harris Einhorn, RLA | NYBG | 184LAN411

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

\$595/\$655 *Certificate Requirement*

LANDSCAPE DESIGN II: DESIGN DEVELOPMENT

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

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

8 Wednesdays, 3/7–4/25, 6:15–9:15 pm
Nathaniel Harris, RLA | Manhattan | 183LAN402B

8 Wednesdays, 3/14–5/2, 10 am–1 pm
Leslie Needham | NYBG | 183LAN402C

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

\$575/\$635 *Certificate Requirement*

SITE MATERIALS AND DETAILS

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

8 Mondays, 3/19–5/7, 10 am–1 pm
William Harris Einhorn, RLA | NYBG | 183LAN422B

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

\$575/\$635 *Certificate Requirement*

GRAPHICS III

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

P Prerequisite: *Graphics II*

8 Tuesdays, 3/27–5/15, 6:15–9:15 pm
Francine Douwes Whitney, APLD | Manhattan
183LAN417A

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

\$595/\$655 *Certificate Requirement*

LANDSCAPE DESIGN III: PLANTING DESIGN

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

8 Mondays, 3/19–5/21 (no class 5/7 & 5/14), 6:15–9:15 pm

Alexis Gagne | NYBG | 183LAN403A

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

\$575/\$635 *Certificate Requirement*

GRADING

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

8 Fridays, 3/16–5/4, 10 am–1 pm
William Harris Einhorn, RLA | NYBG | 183LAN421B

\$575/\$635 *Certificate Requirement*

PROFESSIONAL PRACTICE FOR LANDSCAPE DESIGNERS

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

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

\$295/\$325 *Certificate Requirement*

LANDSCAPE DESIGN IV: DESIGN AND CONSTRUCTION

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

11 Thursdays, 9/13–11/29 (no class 11/22), 5:15–8:15 pm
Liz Pulver | NYBG | 191LAN520A

\$829/\$909 *Certificate Requirement*

DRAINAGE

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

2 Wednesdays, 3/14 & 3/21, 3–6 pm, & 1 Saturday, 3/17, 10 am–4:30 pm
Jane L. Didona, ASLA, RLA | NYBG | 183LAN425

2 Wednesdays, 6/6 & 6/13, 6:15–9:15 pm, and 1 Saturday, 6/9, 10 am–4:30 pm
Jane L. Didona, ASLA, RLA | NYBG | 184LAN425

\$295/\$325 *Certificate Requirement*

PORTFOLIO AND PRESENTATION SKILLS

Create visually compelling portfolios to present to potential clients. Learn how to develop professional documentation for a variety of audiences through in-class design charrettes and individualized projects. Both print and electronic media presentations will be discussed. **P** Prerequisite: *Landscape Design III*

5 Tuesdays, 3/13–4/10, 6:15–9:15 pm
Blythe Yost | NYBG | 183LAN555

\$379/\$415 *Certificate Requirement*



 **Exam on last class date.**

PHOTOGRAPHY



Family Polemoniaceae
Species *Phlox amoena*

Collector's Field Notes United States. Alabama. Bibb Co.: Ketona dolomite slopes, above the Little Cahaba River. Flowers bright pink.

Matthew C. Pace 624 09 May 2014

Scientific specimen in the William and Lynda Steere Herbarium at NYBG

NEW! 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 will show you how to use the lines, shapes, patterns, textures, and colors of petals, leaves, stems, and vines to create intriguing pictures. The location of where we'll photograph on Garden grounds is dependent on what's in season and on exhibition. No photography experience or fancy equipment is required.

Sunday, 3/25, 2–5 pm
Douglas Dubler | NYBG | 183GWP211A

Sunday, 5/20, 2–5 pm
Douglas Dubler | NYBG | 184GWP211B

\$59/\$65

FLASH PHOTOGRAPHY: THE ORCHID SHOW

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

Tuesday, 4/3, 9 am–3 pm
Jeffrey Falk | NYBG | 184GWP937

\$109/\$119

NEW! CAPTURING MOTION

Incorporating movement in a photograph can bring an image to life, emphasizing a shower of cherry petals or the flight of a bird. You'll experiment with leaving your camera lens open longer to capture motion, and learn how the amount of light in your environment affects your decision. We'll look at a variety of images for inspiration, before going into the Thain Family Forest to capture the movement of our waterfall. Please bring a tripod and a camera that allows you to manually adjust your shutter speed.

Sunday, 4/15, 2–5 pm
John Maggiotto | NYBG | 184GWP214

\$59/\$65

STACKED IMAGE WORKSHOP

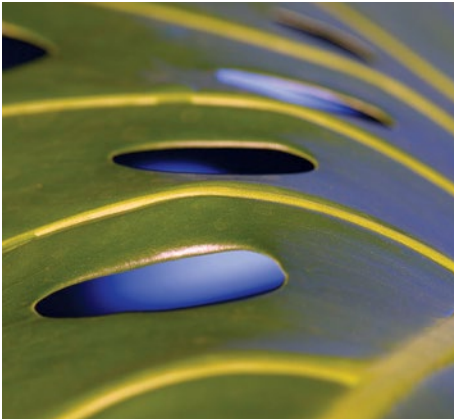
Stacked image photography allows you to create images of extraordinary depth, sharpness, and detail. In this hands-on workshop using your own digital camera (manual focus required), you'll take a series of photos of the same subject, focusing each shot on a different area. You will then combine these photos using a special software to produce one final breathtaking image. You will walk away from this class with all the techniques, equipment, and software tips you need to continue refining this process at home. Please bring your laptop to class, with the free 30-day trial software specified in your email confirmation already downloaded.

Sunday, 4/29, 10 am–4 pm
Jeffrey Falk | NYBG | 184GWP213

\$109/\$119



©Douglas Dubler



©Douglas Dubler



©Jeffery Falk



©John Maggiotto

BOTANICAL BLUES: CYANOTYPE

Harness sunlight to create dreamlike botanical images in rich blues. William Waitzman, whose artwork has been published in *The New Yorker* and *The New York Times*, will guide you through the hands-on process of making cyanotype photograms, one of the oldest forms of photography and one that doesn't use a camera. Learn the best ways to prep your paper with light-sensitive chemicals, compose your image using pressed plants, and develop your print in the sunshine. Walk away with 4–6 unique pieces of art.

Saturday, 5/5 (rain date 5/6), 10:30 am–3 pm
William Waitzman | NYBG | 184CRF128A

Saturday, 7/14 (rain date 7/15), 10:30 am–3 pm
William Waitzman | NYBG | 191CRF128B

\$139/\$155

GOODBYE DIGITAL CAMERA...HELLO IPHONE!

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

Tuesday, 5/31, 10 am–1 pm
Donald Gambino | NYBG | 184GWP151A

Tuesday, 5/31, 2–5 pm
Donald Gambino | NYBG | 184GWP151B

\$59/\$65

CLOSE-UP & MACRO PHOTOGRAPHY WORKSHOP

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

Saturday, 6/9, 9 am–3 pm
Jeffrey Falk | NYBG | 184GWP928

\$109/\$119

COMPELLING LANDSCAPES

We've all had the experience of photographing the most breathtaking landscape, only to find our pictures don't convey its special magic. Professional exhibiting photographer John Maggiotto will take you out on Garden grounds to show you how to find a point of interest, and compose your photograph to showcase it. You'll practice using your camera's manual controls to highlight the most alluring details in any landscape.

Saturday, 6/23, 2–5 pm
John Maggiotto | NYBG | 184GWP227

\$59/\$65

FUNDAMENTALS OF DIGITAL PHOTOGRAPHY

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

3 Saturdays, 7/21–8/4, 10 am–2:30 pm
Wayne and Meghan Cahilly | NYBG | 191GWP202

\$265/\$289



©William Waitzman

INTRODUCTION TO BLACK & WHITE PHOTOGRAPHY

Douglas Dubler, who worked with Ansel Adams in the darkroom, is the ideal guide to walk you through the basic skills needed to create arresting black and white photographs. Using a variety of stunning images, Douglas will discuss how to handle light when you are shooting, and how to process your images with the free Nik Collection plug-in, so your photographs achieve rich blacks, stark whites, and all the greys in between. The first session will include time on grounds to shoot, and the second will be an opportunity to review your work and discuss challenges and successes faced in the field.

2 Sundays, 7/22 & 7/29, 1–4 pm
Douglas Dubler | NYBG | 191GWP208

\$109/\$119

URBAN NATURALIST



Family *Ulmaceae*
Species *Ulmus rubra*

Collectors' Field Notes United States. Wisconsin. Crawford Co.: WNW of Boscobel on N side of Wisconsin River. Deciduous forest. Tree 12 m tall, the trunk 30 cm diam: bark brown, no white layers; leaves boat-shaped. Sample preserved in silica gel at NY.

Daniel Atha & Michael Nee 8247 10 Sept 2009

Scientific specimen in the William and Lynda Steere Herbarium at NYBG

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 COURSE OF STUDY

The NYBG Urban Naturalist Program equips you with the observation, identification, and documentation skills you need to become a citizen scientist and an effective environmental steward. Led by Mike Feller, our team of experienced naturalists, including Ken Chaya and Nancy Slowik, use NYBG grounds and select New York City Parks as living labs to investigate the interrelationships between species and discover how our urban environment sustains those ecosystems.

NYBG Urban Naturalists already utilize their newfound knowledge, passion, and skills to develop their own projects, manage invasive species in local parks, and document NYC plant species as volunteers in NYBG's EcoFlora project.

During the course, students will:

- Carefully observe the natural world using all five senses.
- Use scientific tools, including a metric ruler, loupe, dichotomous key, and binoculars, to identify plant and animal species.
- Create scientifically useful written descriptions and photographic records of observation.
- Interpret nature by leading walks, uploading observations to iNaturalist or NYBG's New York City EcoFlora project, or presenting independent observations and experiences.
- Explore phylogeny and genetic connections using the Tree of Life.
- Identify key environmental conservation issues that affect New York City.
- Hear specialized talks by renowned Garden scientists.

REQUIRED CLASSES

To become an official NYBG Urban Naturalist, you must complete three required classes: *Foundations*, *Woodlands*, and *Waterways*.

You can complete the sequence of classes over a period of several months, or you can fast-track the program in one of two six-week seasonal intensives: Spring or Fall.

FIELD STUDY PROJECT

Within a month of completing your third class, you must submit an in-depth study of a "patch" (natural spot) of your choosing. Your study will include the geology and human history of your patch, a survey of the plants and animals found there, and a plan for how the site can be improved to benefit the landscape and community.

Spring 2017 NYBG Urban Naturalist Lisa Synoradzki's final project was recently published in the Long Island Botanical Society's newsletter!



"NYBG's Naturalist Intensive was life-altering. It encouraged me to think about the relationships among organisms, and between organisms and their habitats. I will never walk through the woods the same way again. The teachers taught us how to teach ourselves, which is the best lesson a teacher can provide."

—Carolyn Smith, 2017 NYBG Urban Naturalist

QUESTIONS? CONTACT MIKE FELLER AT NATCOORDINATOR@NYBG.ORG





SEASONAL INTENSIVES: Spring or Fall

Each six-week intensive includes all three classes (*Foundations*, *Woodlands*, and *Waterways*) required to become a NYBG Urban Naturalist. Spring will focus on the profusion of ephemeral wildflowers, the possibility of seeing the woodcock's elaborate mating sky dance, and newborns of many species as the woods come to life. Fall is a time to revel in brilliant autumnal color, document birds on their way south for the winter, and tag migrating monarch butterflies, provided nature cooperates.

SPRING INTENSIVE

Wednesday–Friday, 4/11–5/18, 10 am–2 pm
Mike Feller, Nancy Slowik, & Ken Chaya
NYBG, Pelham Bay Park, Van Cortlandt Park, & Central Park | 184NAT316
\$1,275/\$1,405

FALL INTENSIVE

Wednesday–Friday, 9/26–11/2, 10 am–2 pm
Mike Feller, Nancy Slowik, & Ken Chaya
NYBG, Pelham Bay Park, Van Cortlandt Park, & Central Park | 191NAT315
\$1,275/\$1,405

See page 13 for other courses of interest to Urban Naturalists:

NATIVE FLORA IN SPRING with Nancy Slowik
SPRING MUSHROOMS with Gary Lincoff
NATIVE FLORA IN SUMMER with Nancy Slowik

THE CLASSES

Enroll in single classes just for fun, or take all three and become an NYBG Urban Naturalist!

FOUNDATIONS

Naturalists are keen observers of the world around them and have played an integral role in the evolution of scientific thought. Now, you can be one too! With the help of experts, hone your ability to identify plants and animals, using a 10x hand lens, dichotomous keys, and field guides. Explore the major challenges facing nature in urban areas, and learn what you can do to affect positive change. Significant time will be spent on Garden grounds. Novices and seasoned nature-lovers alike are welcome!

6 Saturdays, 3/17–4/28 (no class 3/31),
10 am–2 pm
Mike Feller, Nancy Slowik, & Ken Chaya | NYBG
183NAT301A

6 Saturdays, 7/14–8/18, 10 am–2 pm
Mike Feller, Nancy Slowik, & Ken Chaya | NYBG
191NAT301B

\$535/\$589

WATERWAYS

Study the rich variety of plant and animal life found in our riverine and estuary habitats. We'll complete a leaf pack survey of invertebrates found in the Bronx River, and investigate the rare geology found on Pelham Bay's rocky coastline and the algae and sea life it shelters. We'll also venture to Plumb Beach to do some beach seining and search for the horseshoe crabs that come ashore to mate each year.

Prerequisite: *Foundations*

6 Saturdays, 5/12–6/23 (no class 5/26),
10 am–2 pm
Mike Feller & Nancy Slowik | NYBG, Pelham Bay Park, and Plumb Beach | 184NAT308

\$535/\$589

WOODLANDS

Enhance your ability to identify and understand the complex relationships among the diverse plants and animals that live in our city's woodlands and forests. We'll take a close look at learning to identify the trees found in our eastern woodland habitat, as well as the birds passing through on their southbound migration along the storied Atlantic Flyway. Prerequisite: *Foundations*

6 Saturdays, 9/15–10/27 (no class 10/6),
10 am–2 pm
Nancy Slowik & Ken Chaya | NYBG, Van Cortlandt Park, & Central Park | 191NAT307

\$535/\$589



FIELD TRIPS

NEW! FROG CHORUS

Delight in the evening songs of spring peepers, bullfrogs, Fowler's toads, and more at the kettle ponds of this overlooked gem in Queens.

Saturday, 4/7, 5–9 pm

Mike Feller | Alley Pond Park | 184NAT309

\$85/\$95

NEW! HORSESHOE CRAB MATING

Don waders (we'll supply!) and help tag the prehistoric horseshoe crabs that arrive on our shores every summer to mate. This trip will be in the evening in mid-May to early June, depending on mating season. Please call 718.817.8720 to add yourself to our list.

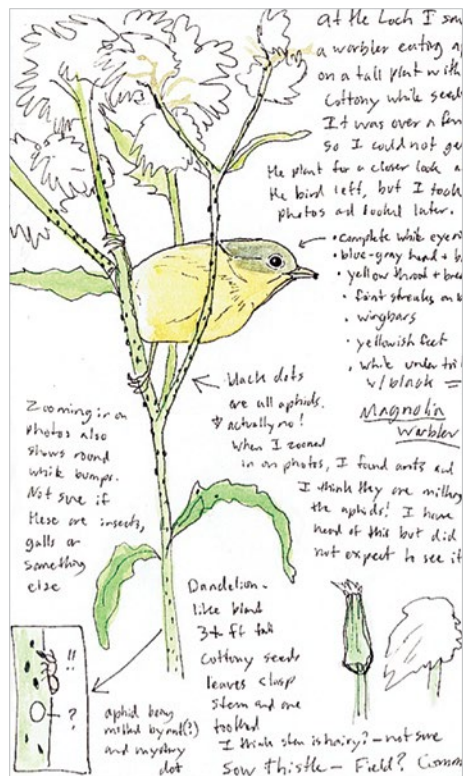
Date and time to be announced

Mike Feller | Plumb Beach | 184NAT310

\$85/\$95



©Lisa Whitmer



FIELD JOURNALS

NEW! FIELD SKETCHING

Take your naturalist game to the next level by learning how to sketch. Drawing—more than photography—asks you to slow down and closely observe what you see, which will help you identify unfamiliar species and investigate ecological connections. Botanical artist and avid birder Frank Guida will show you tips and tricks to help you accurately capture nature's important details. *No previous drawing experience required.*

2 Sundays, 5/20 & 6/10 (rain date 6/24), 10 am–1 pm

Frank Guida | NYBG | 184NAT400

\$145/\$159

NEW! NATURE WRITING

Craft your own stories, poems, and essays about or inspired by the natural world. The course will explore the many ways nature can serve as a rich inspiration for both novice and experienced writers. *No prior writing or botanical experience required.*

7 Tuesdays, 5/15–6/26, 10 am–12 pm

Bill Logan | NYBG | 184NAT801

\$395/\$435

Note: All classes take place rain or shine. Please dress for the weather.

Sketchbook image: ©Carolyn Smith, 2017 Graduate

NYBG Press

Expand your personal library with these classic, popular botanical titles from NYBG Press, established in 1896. To learn more or to purchase these and other botanical titles, visit NYBGPress.org.

Two-volume set: Gleason & Cronquist *Manual and the Illustrated Companion*

This set includes the two "must-have" reference works for plant enthusiasts in the Northeastern United States and adjacent Canada.

The *Manual* helps you identify 4,285 species from 191 families. The *Manual's* keys are based on the characteristics most easily observed by the naked eye, with a hand lens, or occasionally with a dissecting microscope. The *Illustrated Companion* consists of 827 plates of meticulously rendered black-and-white botanical illustrations labeled to cross-reference with the *Manual*.

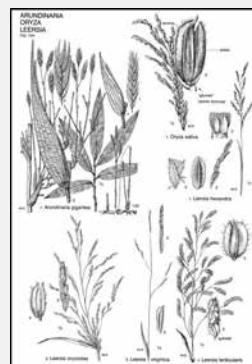
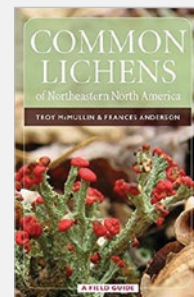


Plate from the *Illustrated Companion*.

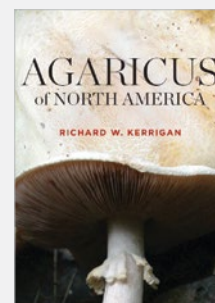
Common Lichens of North America

This user-friendly guide features 138 lichens with photographs and detailed information on how and where they grow. It's written in non-technical language, and is useful to naturalists, forestry workers, and researchers alike.



Agaricus of North America

Often casually called "the Meadow Mushrooms," about 90% of *Agaricus* species actually reside in forest and other non-grassland habitats. This volume, authoritative while remaining accessible to the non-specialist, covers all that is currently known about *Agaricus* in North America.



WELLNESS

Exercise or meditate within the Garden or find new ways to bring healthful plants into your everyday life.



Family Asteraceae
Species *Calendula officinalis*

Collector's Field Notes Plants ordered from Whole Blossoms flower wholesaler. Probably grown in South America.
Herb; flowers orange. Sample preserved in silica gel at NY.

Daniel Atha 12702 13 Sept 2012

Scientific specimen in the William and Lynda Steere Herbarium at NYBG

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, 4/7–6/2 (no class 5/26), 10–11 am
Robert Torres | NYBG | 184WEL102A

8 Saturdays, 6/16–8/11 (no class 6/30), 10–11 am
Robert Torres | NYBG | 184WEL102B

\$119/\$129

FOREST BATHING

When surrounded by the tranquil beauty of nature, the mind naturally becomes quiet and peaceful. This is reflected in Japanese Zen, where silent meditation in serene environments is a core element of the practice. Buddhist monks, trained in both Japanese Zen and in Therāvada meditation, will teach us how to meditate and lead us on a journey of inner exploration: practicing sitting and walking meditation in NYBG's Thain Family Forest.

Tuesday, 4/24, 10 am–1 pm
Bhante Suddhāso | NYBG | 184WEL145A

Tuesday, 7/10, 10 am–1 pm
Bhante Jayasara | NYBG | 191WEL145B

Saturday, 9/22, 10 am–1 pm
Bhante Suddhāso | NYBG | 191WEL145C

\$55/\$59

HERBAL SPA BOTANICALS

Pamper yourself! In this hands-on session, learn to create body scrubs, facial steams, and moisturizers for a home spa experience. Master herbalist Elizabeth Scholl introduces you to flowers and plants from your garden and ingredients from your pantry that are beneficial for your skin. Come away with products you've customized for your own skin type, along with the recipes and know-how to make them again!

Saturday, 4/14, 2:30–5 pm
Elizabeth Scholl | NYBG | 184WEL135

\$109/\$119

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, 4/28, 10 am–1 pm
Karine Gordineer | Manhattan | 184WEL134A

Saturday, 6/2, 2:30–5:30 pm
Karine Gordineer | NYBG | 184WEL134B

Wednesday, 8/15, 10 am–1 pm
Karine Gordineer | Manhattan | 191WEL134C

\$95/\$105

CANDLEMAKING WITH ESSENTIAL OILS

Freshen your home while experiencing the soothing benefits of essential oils. Create custom-scented aromatherapy soy candles using essential oils to invigorate, calm, or heal. Learn the differences between petroleum-based paraffin candles and synthetic essential oil candles commonly sold in stores. Create and take home two 4 oz. container candles and two 3 oz. votive candles.

Saturday, 4/14, 10 am–12:30 pm
Karine Gordineer | NYBG | 184WEL138A

Saturday, 8/4, 10 am–12:30 pm
Karine Gordineer | Manhattan | 191WEL138B

\$95/\$105

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, 8/5, 10 am–1 pm
Elizabeth Scholl | NYBG | 191WEL143A

Sunday, 8/19, 10 am–1 pm
Elizabeth Scholl | NYBG | 191WEL143B

\$109/\$119

NEW! HERBAL TREATMENTS FOR WOUNDS & SKIN CARE: FROM BALMS TO LINIMENTS

Discover how herbal medicine can be used for everything from minor injuries and skin repair to nerve and muscle relaxation. Herbalist Dawn Petter will share recipes and demonstrate how to make a variety of plant-based remedies, including creams and poultices. You'll also make your very own topical oil and herbal lip balm to take home.

Wednesday, 4/11, 6:15–8:15 pm
Dawn Petter | NYBG | 184WEL139

\$85/\$95

NEW! REMEDIES FOR A RESTFUL SLEEP

Sleep is critical to our well-being, yet many of us struggle with getting a good night's rest. Herbalist Dawn Petter will discuss practices that will help balance your nervous system and calm your mind, whether you are a seasoned insomniac or an occasional non-sleeper. You'll learn the importance of establishing a bedtime ritual and what herbal preparations to add to your home apothecary. You'll walk away with recipes and a tincture made in class.

Thursday, 5/3, 6:15–8:15 pm
Dawn Petter | NYBG | 184WEL146

\$85/\$95

Wellness classes are presented for informational purposes only and are not intended for self-medication.



Herbal Saturday: Reduce Your Stress

May 5 | Midtown Education Center, Manhattan

Herbs have been helping us stay healthy for thousands of years. Spend a day with herbal experts and learn how plants can be used for medicine, aroma, and refreshment.

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 | 184WEL130B | \$65/\$69

12:45–2:15 pm

NEW! CALMING ESSENTIAL OILS

In addition to smelling great, essential oils have therapeutic properties that stimulate healing and help calm stressed-out nervous systems. Discover which particular aromatic plant essences work best and why. You'll also make a balm infused with essential oils that you can take home to rub on your temples, wrists, and other pulse points to help reduce stress.

Karine Gordineer | 184WEL130C | \$85/\$95

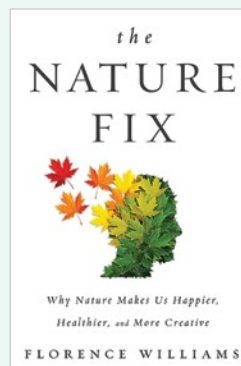
2:30–4:30 pm

NEW! HERBS TO REDUCE TENSION

A nervine is a plant remedy that can relax, stimulate, or tone the nervous system. We'll focus on those associated with stress reduction, relief of mild anxiety, and the promotion of restful sleep, such as lemon balm, skullcap, and linden. You'll learn the basics about which plants are most effective at alleviating tension and why, and create a calming nervine blend to take home.

Karine Gordineer | 184WEL130D | \$85/\$95

All Three Sections: 184WEL130A | \$179/\$195

**NEW! THE NATURE FIX: A TALK WITH FLORENCE WILLIAMS**

"Go outside. Go often. Bring friends. Breathe." So writes Florence Williams in her recent book, *The Nature Fix: Why Nature Makes Us Happier, Healthier, and More Creative*. Williams, a journalist and contributing editor to *Outside* magazine, shares insights gleaned from talking with psychologists and neuroscientists on three continents about why we feel calmer after we've been in nature. She'll discuss how our well-being is affected by the way our brains respond to bird songs, the smell of the great outdoors, and fractal patterns often found in nature.

Friday, 5/4, 10–11:30 am
Florence Williams | NYBG | 184WEL906

\$25/\$29

ACADEMIC POLICIES & PROCEDURES

GENERAL COURSE INFORMATION

COURSE LEVELS

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

COURSES WITH PREREQUISITES

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

WORK-STUDY OPPORTUNITIES

For information about work-study opportunities with Adult Education, please call 718.817.8802.

SCHOOL POLICIES FOR CERTIFICATE PROGRAMS

The Director and Program Coordinators formulate policy regarding standards of student performance, including awarding Certificates, rules of conduct, and student appeals. Please contact the Director with any questions or concerns at 718.817.8595.

Satisfactory Academic Progress Policy:

Student progress is measured by grades for Certificate courses, while Non-Certificate courses are not graded.

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

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

Grades are available via your online student account. Call 718.817.8747 for help creating an online account, to receive grades over the phone, or request a transcript.

All incomplete grades will be converted to an F within 4 weeks if work is not completed by then. A student must repeat a course and earn a passing grade in order to receive a Certificate; additional course materials will be charged at cost.

Previous Education Credit

A student may qualify for course exemption through:

- College courses taken for degree credit from an accredited college or university
- Evaluated non-collegiate sponsored instruction
- Proficiency exams

To be exempt from a required course, you must complete the Course Exemption Request Form, present transcripts showing an earned grade of C or higher, and present the course outline and/or relevant supporting documentation. The School will evaluate these submissions and make a decision. If exempted from the course, you must take an equal number of hours of approved elective course(s).

Attendance

On-time attendance is required at all classes. Unexcused tardiness and absences are not accepted, unless due to an emergency, including serious illness or death within a student's family. Absences should be reported to the Registration Office at 718.817.8720 and will be evaluated on a case-by-case basis. Students must request makeup tests, which will be scheduled at the instructor's discretion. Deficiency in any required work resulting from absence from class must be made up at the student's own expense to satisfy the instructor.

Student Work

Students have 8 weeks following the last day of class to pick up any work left by instructors at the Registration Office. After that time, unclaimed assignments will be discarded.

Certificate Requirements

Certificate requirements are those stated in the catalog from which the student first registered for a Certificate course.

To qualify for a Certificate, students must receive passing grades in all required courses.

Students have 6 years from the start of their first required course to complete a Certificate.

Certificate Graduation Ceremony

The 2018 ceremony will be held on Sunday, June 3. If you expect to complete your Certificate requirements or enroll in all remaining classes by May 25, you must inform the Manager of Student Services in writing at adultgraduation@nybg.org by February 23. You will be informed if you are eligible for a Certificate by April 20. Call the Registration Office at 718.817.8747 with any questions.

Transcripts

Official (\$4 each) and unofficial transcripts (free) are available from the Registration Office. Request an official transcript in writing, including the name and address of the institution to which the transcript should be mailed. Transcripts will be mailed within 2 weeks, with a copy sent to the student.

Privacy

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

STATE LICENSING AND ACCREDITATION

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

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

To file a complaint, students should write to the New York State Education Department's Bureau of Proprietary School Supervision at 116 West 32nd Street, 5th Floor, New York, NY 10001, or call the Department at 212.643.4760, requesting an interview for the purpose of filing a written complaint. All relevant documents must be brought to the interview. If you cannot attend an interview, send a letter or call the Bureau to request a complaint form. You must complete and sign the form and mail it to the Bureau, including copies of all relevant documents. The Bureau cannot investigate any complaint made more than 2 years after the date of alleged occurrence.

CONTINUING EDUCATION UNITS, PROFESSIONAL SOCIETIES, AND ACADEMIC PROGRAMS

Continuing Education Units (CEUs)

AIA, APLD, and ASLA Members: Don't miss out! Get CEUs for many of our lectures. Events offering CEUs are noted in the catalog or on the individual event listing pages at nybg.org/adulted with your organization's logo.



Tri-State Botanical Artists of NYBG (TSBA)

The Tri-State Botanical Artists of NYBG (TSBA) is a lively group of over 40 artists who meet to engage in critiques, monthly art challenges, a sketchbook exchange, and discussions about relevant topics. We invite all current Certificate students and alumni to join us! TSBA is recognized as an ASBA Circle. Meetings are free and held at 11 am on the last Tuesday of each month at NYBG. Please contact Jeanne Reiner reinerj@hotmail.com or Susan Sapanara ssapanara@gmail.com for more information.

Landscape Design Students and Alumni Association (LDSA)

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

American Horticultural Therapy Association (AHTA)

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

American Institute of Floral Designers (AIFD)

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

American Society of Botanical Artists (ASBA)

ASBA is a non-profit organization of more than 1,300 members throughout the US and in 20 other countries. Dedicated to promoting awareness of contemporary botanical art, ASBA provides educational opportunities through its annual conference and quarterly journal, *The Botanical Artist*. ASBA maintains their headquarters at NYBG on the third floor of the Watson Education Building. ASBA brings the best of contemporary botanical art to the public by curating the NYBG Triennial and other exhibitions. For membership and more information visit asba-art.org

Association of Professional Landscape Designers (APLD)

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

Department of Environmental Conservation (DEC)

The New York State Department of Environmental Conservation (DEC) requires commercial pesticide applicators to take a 30-hour course such as Preparation for Pesticide Applicator Certification Examination (HRT 357) offered at the Garden, and pass a State-administered exam. 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 nafa.org

The New York Botanical Garden & Bronx Community College Associate Degree Program

NYBG and Bronx Community College of The City University of New York offer an Associate Degree program. The first year of the program is offered at BCC where students take academic courses. The second year is spent at NYBG, where students take academic courses and work in horticulture. For more information, contact NYBG at 718.817.8747 or Adijat Adebola at adijat.adebola@bcc.cuny.edu or 718.289.5538.



SCHOOL OF PROFESSIONAL HORTICULTURE

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

As a student in the School of Professional Horticulture you:

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

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

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

MIDTOWN EDUCATION CENTER

20 West 44th Street



DATE	TIME	COURSE TITLE	PAGE
BOTANICAL ART & ILLUSTRATION			
3/6	6 pm	Botanical Drawing for Beginners	6
3/7	6 pm	Botanical Drawing II: Developing Your Skills	7
3/12	10 am	Botanical Watercolor for Beginners and Beyond	6
3/29	6 pm	Botanical Drawing I: Methods and Materials	7
5/2	6 pm	Botanical Drawing III: Focus on Flowers	7
5/7	10 am	Botanical Watercolor for Beginners and Beyond	6
5/12	10 am	Spring Tulips in Watercolor Workshop	8
5/22	6 pm	Botanical Drawing for Beginners	6
6/2	10:30 am	Botanical Watercolor I	8
6/18	10 am	Botanical Watercolor for Beginners and Beyond	6
7/9	10 am	Botanical Drawing I: Methods and Materials	7
9/12	6 pm	Botanical Drawing III: Focus on Flowers	7
9/17	6 pm	Botanical Watercolor I	8
9/24	10 am	Botanical Watercolor for Beginners and Beyond	6
9/25	6 pm	Botanical Drawing I: Methods and Materials	7
9/26	6 pm	Botanical Drawing for Beginners	6
BOTANY			
3/12	6:15 pm	Botanical Latin	12
5/3	6 pm	The Science of Tree Communication	12
5/17	6 pm	Healing Spirits: The Botany of Aperitifs and Digestifs	12
5/23	10 am	Spring Mushrooms	13
7/26	6 pm	Healing Spirits: The Botany of Aperitifs and Digestifs	12
CRAFTS			
3/17	10 am	Mounted Staghorn Ferns	14
5/2	6:30 pm	Girls' Night Out: Spring Wildflowers	14
5/12	11 am	Botanical Jewelry: Botanicals in Resin	15
5/21	6:30 pm	Living Décor: Terrariums with Air Plants & Orchids!	14
6/28	6:30 pm	Girls' Night Out: Spring Wildflowers	14
8/4	11 am	Mounted Staghorn Ferns	14
FLORAL DESIGN			
3/1	6:15 pm	Woodland Centerpiece	19
3/3	10:30 am	Wedding Design II: Ceremony & Reception	21
3/6	10:30 am	Photo Styling: Building your Brand on Social Media	19
3/15	6 pm	Flower Arranging with Store-Bought Bouquets	19
3/27	6:15 pm	Fundamentals of Form	20
4/2	10:30 am	Wedding Design I: Personals	20
4/19	6:15 pm	Flower ID from A to Z	21
5/8	6 pm	Flower Arranging with Store-Bought Bouquets	29
5/15	6:15 pm	Color Theory for Floral Design	21
5/16	10:30 am	Event Planning for the Floral Designer	21
6/6	6:15 pm	Grand-Scale Arrangements	21
6/11	6 pm	Simple and Sleek Floral Design Ideas	19
7/16	10:30 am	Floral Design 3 Week Intensive	18
7/16	10:30 am	Fundamentals of Form	20
7/23	10:30 am	Fundamentals of Style	20
7/30	10:30 am	Wedding Design I: Personals	20
9/24	10:30 am	Fundamentals of Form	20
9/25	6:15 pm	Fundamentals of Form	20

DATE	TIME	COURSE TITLE	PAGE
GARDENING			
3/5	6 pm	Vertical Gardening: Vines and Climbers	24
3/6	10:30 am	Perennial Plant Combinations	24
3/8	6:15 pm	Fundamentals of Garden Design	27
3/12	6 pm	Compost: The Key to Healthy Gardens	24
3/12	6:15 pm	Botanical Latin	27
3/13	6 pm	Super Small Space Veggie Gardening	27
3/24	10:30 am	Perennial Plant Combinations	24
4/3	6:15 pm	Fundamentals of Gardening	27
4/26	6 pm	Mastering The Art of Tomato Gardening	27
5/5	10 am	All About Containers Saturday	29
5/7	10 am	Container Gardening	25
6/16	10 am	Terrace Gardeners Saturday	29
7/9	6:15 pm	Vegetable Gardening	28
7/17	6:15 pm	Fundamentals of Gardening	27
9/17	6:15 pm	Fundamentals of Gardening	27
9/20	6 pm	Mastering the Art of Tomato Gardening	27
HORTICULTURE			
6/25	6:15 pm	Introduction to Plant Science	33
7/10	5:45 pm	Plant Propagation I: Basic Principles	35
7/30	6:15 pm	Introduction to Plant Science	33
9/8	10 am	Introduction to Plant Science	33
HORTICULTURAL THERAPY			
3/14	6 pm	Garden Design for Special Populations	39
LANDSCAPE DESIGN			
3/7	6:15 pm	Landscape Design II: Design Development	45
3/19	6:15 pm	Landscape Design History	44
3/27	6:15 pm	Graphics III	45
4/16	6 pm	Intro to Green Walls	42
4/26	6:15 pm	Landscape Design I: Site Analysis and Schematic Design	45
5/30	6 pm	Intro to Green Roofs	43
7/9	6 pm	Graphics I	44
7/19	6:15 pm	Intro to Landscape Design	42
9/17	6:15 pm	City Roof Design	43
9/25	6:15 pm	Intro to Landscape Design	42
WELLNESS			
4/28	10 am	Essential Oil Perfume Workshop	52
5/5	10:30 am	Herbal Saturday: Reduce Your Stress	53
5/5	10:30 am	Intro to Herbal Medicine	53
5/5	12:45 pm	Calming Essential Oils	53
5/5	2:30 pm	Herbs to Reduce Tension	53
8/4	10 am	Candlemaking with Essential Oils	53
8/15	10 am	Essential Oil Perfume Workshop	52
NEW CANAAN NATURE CENTER			
144 Oenoke Ridge (Rt. 124), New Canaan, Conn.			
3/3	10 am	Pruning: How, When, and Where	24
3/8	10 am	Intro to Landscape Design	42
3/17	10 am	Garden Design Workshop	25
4/17	10 am	Fundamentals of Gardening	27
5/15	10 am	Plants for Landscaping	33
5/21	10 am	Whip Your Garden into Shape	25

REGISTRATION

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

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

Confirmations

Registration confirmations will be sent same day via email.

GENERAL INFORMATION

Entrance to the Garden on Class Days

You must bring your printed confirmation letter for admission to the Garden, and present it at the Mosholu Gate to gain entrance and free parking.

Storm Closings | *Class cancellations due to inclement weather will be rescheduled.*

For closings due to weather, check our website or call 718.817.8747 at the times noted below for a recorded message on the status of your class:

7:30 am for classes beginning at 9–11:45 am

10:30 am for classes beginning at 12–3 pm

1 pm for classes beginning at 3:15–8 pm

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

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

If you must withdraw fewer than ten days before the first class meeting:

No refunds will be granted for course levels 0–299 and 700–999

A 75% refund minus a \$10 processing fee will be granted for course levels 300–699

Please note: Floral Design materials fees will not be refunded fewer than 5 business days before class begins.

Holidays | *NYBG observes the following 10 holidays:*

New Year's Day; Martin Luther King, Jr. Day; Presidents' Day; Memorial Day; Independence Day; Labor Day; Columbus Day; Thanksgiving and the following Friday (Veterans' Day observance); and Christmas

Accessibility

The New York Botanical Garden is accessible to persons with disabilities. Please ask about special needs accommodations when you register or visit nybg.org for more information.

Garden Membership

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

Library

The LuEsther T. Mertz Library keeps Adult Education required reading on reserve, has study space with WiFi available, and offers help with class assignments. Visit nybg.org/library or contact libref@nybg.org for more information.

Gift Certificates

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

REGISTRATION IS EASY!

Web

Register online at nybg.org/adulted

Phone

718.817.8747 Registration Office
M–F 9 am–5 pm

In Person

Drop by the Registration Office in the Watson Education Building, Room 306, or at the Midtown Education Center.

The Garden | *Quick and easy to reach*
Bronx River Parkway (Exit 7W)



Metro North Railroad to Botanical Garden Station



Midtown Education Center | Two blocks from Grand Central Terminal

20 West 44th Street, between 5th and 6th Avenues; 212.302.2054



New York Botanical Garden
Bronx, New York 10458-5126
Address Service Requested



Get Your Nature Fix at NYBG.

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

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

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

NYBG Herbarium specimen: *Calendula officinalis*



The New York Botanical Garden is located on property owned in full by the City of New York, and its operation is made possible in part by public funds provided through the New York City Department of Cultural Affairs.



Printed on
recycled paper