Welcome!

The New York Botanical Garden is celebrated for its magnificent trees. Some 30,000 of them can be found in our old-growth Thain Family Forest, in our curated collections of conifers and flowering trees, in the landmark Tulip Tree Allée, and in countless other locations throughout the Garden’s 250 acres.

This catalog is also packed with trees. Contemporary botanical art from the upcoming Triennial exhibition, Out of the Woods: Celebrating Trees in Public Gardens, appears throughout. Scientific tree specimens grace the cover and section headers. This fall, our Saving the American Ash Summit calls attention to a crisis affecting a beloved species, and a special symposium features Peter Wohlleben—author of The Hidden Life of Trees. From Winter Tree ID to Bonsai Workshops to Drawing Conifers, we offer classes that help you identify, care for, and design with trees, as well as how to draw and photograph them.

But there’s more, too! Meet outstanding speakers in our distinguished lecture series. Explore enriching courses in urban nature, gardening, art, design, and wellness. The acorn you plant this fall may grow into a mighty oak in years to come!

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.

Registration is now open. Please visit nybg.org/adulted or call 718.817.8747. Prices listed are Member/Non-Member. Not a Member yet? Call 718.817.8703.

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

COVER HERBARIUM SPECIMEN:
Family: Cupressaceae
Species: Juniperus virginiana
Collector’s Field Notes: United States. Maryland. Queen Anne’s Co. MD Rt 309, Starr Road, at MD Rt. 213, Centreville Road, edge of woods at roadside.
Wayne Longbottom 24185  9 December 2015
Scientific specimen in the NYBG collection, C. V. Starr Virtual Herbarium
ABOUT THE COVER: The preserved juniper branch on our cover comes 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.

The Steere Herbarium acquires some 30,000 new specimens each year, collected by NYBG scientists and our institutional partners. These new specimens supplement historic collections from major botanists, and from legendary naturalists including Charles Darwin, John Muir, and John J. Audubon.

NYBG Herbarium specimen: *Liriodendron tulipifera* (see page 38)
19th Annual Landscape Design Portfolios Lecture Series

A LIFE IN DESIGN

Outstanding landscape architects and designers from around the world showcase their signature projects, working methods, and design philosophies. This year’s lineup features a passionate and influential trio, each of whom has an amazing body of work that has transformed cities around the world. Their timeless designs for public spaces, regenerated urban sites, and city centers tell stories that resonate on profound emotional, intellectual, and poetic levels—reflecting a deep, personal connection between people and place.

SIGNE NIELSEN

Optimistic Landscapes
A powerful leader in healing post-industrial New York City’s landscapes, Signe Nielsen and her firm, MNLA, have revitalized Lincoln Center’s public plazas, restored St. Paul’s historic churchyard, devised the master plan for the South Bronx Greenway, and transformed more than 22 miles of waterfront into places that are restorative for people and natural processes—including the Tribeca section of Hudson River Park and Brooklyn’s Fulton Landing. Each of her design sites addresses multiple challenges, from protecting shorelines from the damaging effects of climate change to providing communities with safe, beautiful gathering spaces. Her current focus is Pier 55, a high-profile island park that will be built in the Hudson River. An ASLA Fellow, a professor at Pratt Institute, and president of New York City’s Public Design Commission, Nielsen is a tireless advocate for policy change that supports sustainable, inspiring, diverse urban spaces. Her work has received more than two dozen national design awards and has been published extensively in professional journals and books.

October 16 | 182LAN801B

ARABELLA LENNOX-BOYD

A Designer’s Eye
“I don’t like gardens that immediately present themselves to you. I want to walk through different spaces, with the vistas always changing. There has to be a sense of mystery.” So says Arabella Lennox-Boyd, who has designed landscapes around the world for 40 years—from strikingly modern rooftops in London and Hong Kong to the estates of an English duke, a Belgian queen, and Sting. A recipient of six Chelsea Gold Medals and the prestigious RHS Veitch Memorial Medal, she is a preeminent plantswoman who relishes growing from seed the rare tree and shrub specimens she incorporates as structural elements in her designs. She is internationally known for her herbaceous borders, perfectly suited to their environments and bursting with color, form, and texture—including those on glorious display at Gresgarth Hall, her enchanting home and lifelong design project. Her most recent work includes the graceful landscape surrounding the Serpentine Sackler Gallery in London, designed by Zaha Hadid, as well as private residences in Kiev, Greece, England, and the United States.

October 30 | 182LAN801C

LAURIE OLIN

Public and Private: The Twin Poles of Landscape Architecture
Renowned landscape architect Laurie Olin, AFLA, creates elegant environments that can seamlessly accommodate heavy human and vehicular traffic, while providing beautiful, restful spaces from which to watch the world go by. Here in New York City, we experience the transformative nature of his work when we stride through Columbus Circle or linger in Bryant Park. From the celebrated Washington Monument Grounds to more recent projects such as the AIA award-winning Barnes Foundation and Portland’s Director Park, he and his firm, OLIN, create timeless public spaces that celebrate social gatherings, natural systems, and urban life. A Guggenheim Fellow, an ASLA Fellow, an honorary member of the AIA, and a Fellow of the American Academy of Arts and Sciences, Olin is also an award-winning author who has written widely on the history and theory of architecture and landscape. But perhaps surprisingly—even after receiving the NEA’s National Medal of the Arts from President Obama—Olin remains enthusiastic about residential work, and continues to bring harmony and balance to the outdoor spaces of private homes.

November 6 | 182LAN801D

3 Mondays, October 16, October 30, November 6, 6:30–7:30 pm
Scandinavia House, 58 Park Avenue at 38th Street, Manhattan

SUSAN COHEN, FASLA, RLA, COORDINATOR OF THE LANDSCAPE DESIGN PROGRAM, ORGANIZED THIS SERIES.

Registration fee for each lecture: $23/$26. Register for the series and receive a discount: 182LAN801A | $62/$69

SUPPORT GENTEROUSLY PROVIDED BY THE HEIMBOLD FOUNDATION.
18th Annual Winter Lecture Series

THE GARDENER’S GARDEN

This year’s series stays close to home—and heart—as three renowned gardeners, plantsmen, and environmental stewards take us inside their own personal gardens. As incubators, models, and laboratories, these beautiful spaces integrate wild nature, plantings, and innovative visions, as well as influences and best practices from around the world. Join us as our extraordinary speakers share the ideas and projects that have led them to the gardens they have always wanted.

DAN HINKLEY

Windcliff | Seattle, Washington

“We often desire a garden that is opposite to what we have, but few of us actually achieve that ‘other garden’.”

Situated on a bluff with awe-inspiring views of Puget Sound and Mt. Rainier, Dan Hinkley’s Windcliff is both a superbly planted home garden and a botanical collection of wild specimens from more than 20 countries. The house is integrated seamlessly into the landscape with transparent plantings and trellised vines, while still enjoying classic garden elements of privacy, views, color, and fragrance. In arboretum and greenhouse, vegetable garden and experimental meadow, new specimens are constantly transplanted, discarded, and trialed. Windcliff is about testing and discovery, reflecting the places and people Hinkley has encountered—and the plants he’s brought back to share with the gardening community.

Famed plant hunter, nurseryman, and author Dan Hinkley is committed to solid and sustainable horticulture, exceptional garden plants, landscapes of distinction, and raising our awareness of Earth’s plant diversity and the mysteries of our natural world. At Heronswood Nursery, he created a woodland garden considered one of the most stunning in America.

January 25 | 183GAR801B

ARNE MAYNARD

Allt-y-bela | Monmouthshire, Wales

“It’s always more difficult to design your own garden than to make one for a client.”

Allt-y-bela is a medieval renaissance tower house cradled in a valley between grazed and wooded hillsides. Here, Arne Maynard is creating a garden with a strong bond to its setting and a powerful sense of place, but one that’s manageable and relatively low-maintenance. Drawing on his signature design elements—broad, eclectic references from architecture and garden history to interior design and traditional crafts—Maynard has woven topiary, earthworks, streams, flower borders, fruit orchards, wild meadow plants, cultivars, enclosed gardens, ancient oaks, cobbled paths, and idiosyncratic structures into a shared design language that changes dramatically in every season.

One of today’s most celebrated and sought-after garden designers, Arne Maynard is known for winning Gold at the RHS Chelsea Flower Show and for his beautiful and sympathetic gardens for private houses across the world. His large-scale country estates and small urban spaces reflect the architectural background and holistic philosophy Maynard has applied famously to his private gardens, first at Guanock House in Lincolnshire and now at Allt-y-bela.

February 22 | 183GAR801C

EDWINA VON GAL

Marsh House | East Hampton, New York

“My garden is my play pen, laboratory and retreat…an unruly, willful version of what I do for my clients.”

For Edwina von Gal, a garden is a collaboration with a piece of land about relinquishing, or establishing, just the right amount of control. Her property is a long, five-acre rectangle, with tidal wetland on one side, a former forest on the other, and a vegetable garden along the way. An iconic modernist house sits on stilts in a salt marsh, with a view of Accabonac Harbor. She is re-creating a meadow and restoring the forest, using mowed paths and log walls to define spaces. This calm refuge reflects her twin beliefs: nature is the best landscaper and toxin-free is the new perfect.

For more than 30 years, Edwina von Gal has created unique landscapes with a focus on simplicity and sustainability. Her collaborators include Frank Gehry and Maya Lin, and she counts Cindy Sherman, Calvin Klein, and Ina Garten among her clients. In 2013 she founded the Perfect Earth Project, a non-profit that promotes toxin-free land maintenance.

March 29 | 183GAR801D

Registration fee for each lecture: $32/$35. Register for the series and receive a discount: 183GAR801A | $85/$95

FUNDED IN PART BY THE BARBARA CUSHING PALEY FUND.
Invasive Species Summit: Restoration and Long-Term Management

Friday, November 3, 10 am–4 pm | Ross Hall, NYBG

Stiltgrass! Knotweed! Barberry! Porcelain-berry! A rogues gallery of invasive species is disrupting natural ecosystems and displacing native plants and animals throughout our region. Natural resource managers and concerned citizens from New York City to the Adirondacks are developing and implementing best practices for preventing new invasions, managing established invasives, and restoring invaded ecosystems. Five experts will discuss current trends in ecological restoration and share the tools and techniques they use to protect and preserve our imperiled native biodiversity.

Removal is not (usually) enough!

Paddy Woodworth, award-winning Irish journalist and author of Our Once and Future Planet, will share lessons from small- and large-scale restorations in the US and beyond, with a focus on what must happen during and after a site is cleared of invasive plants.

Restoration success in a densely urban environment

Kristy King, Director of Natural Areas Restoration and Management for NYC Parks, will outline the workforce development, community engagement, and site prioritization that are key to NYC Parks’ success to date, as measured by the health of native plant communities, soil, and wildlife.

Lessons from urban to suburban environments

Tate Bushell, Director of Stewardship with the Westchester Land Trust, and Jessica A. Schuler, Director of the Thain Family Forest at NYBG, both oversee successful ecological restoration projects. Bushell in suburban Westchester and Schuler in urban NYC. They will highlight how to establish goals, prioritize, implement projects, and overcome challenges to have success in long-term management in these two distinct settings.

20+ years of invasive species management

Bob O’Brien, Invasive Species Control Field Director for New York State’s Office of Parks, Recreation and Historic Preservation, will showcase NYS Parks’ model of planning, data collection, invasive species prevention zones, and on-the-ground control with a Strike Team model.

A wilder world: The plants and places that inspired Laura Ingalls Wilder

Marta McDowell in conversation with Thomas Rainer

Wednesday, October 11
11 am–12:30 pm | Ross Hall, NYBG

The inspiration for Laura Ingalls Wilder’s beloved Little House books was born from a life lived in partnership with the land, on homesteads she and her family settled across the Midwest. Through her writing and her deep connection to the natural world she captured the vast changes to the American landscape in the late 19th and early 20th centuries. Come explore the natural history of Wilder’s American frontier and its relevance to “post-wild” design, horticulture, agriculture, and preservation today.

Marta McDowell is the author of The World of Laura Ingalls Wilder: The Frontier Landscapes that Inspired the Little House Books, and Horticulture and Landscape Design instructor at NYBG.

Thomas Rainer is a landscape architect, teacher, and co-author of Planting in a Post-Wild World: Designing Plant Communities for Resilient Landscapes.

182HRT834 | $25/$29  CEUs will be provided.
In this landmark summit, experts discuss the natural and cultural history of the magnificent Ash—and the deadly crisis it faces today.

The Ash (*Fraxinus*) is one of the largest genera of trees in the Northeast forest, and is planted as a street tree across the continent. Many are keystone species, anchoring their ecosystems. The wood is economically important, while the bark is highly valued in traditional Amerindian basketry.

Unfortunately, the Ash is threatened by an invasive beetle, the Emerald Ash Borer (EAB), discovered near Detroit in 2002 and now moving rapidly eastward through New York, New England and Canada. EAB larvae burrow under the bark, creating extensive tunnels that disrupt the flow of water and nutrients. Mortality is nearly 100 percent, and all North American Ash species are likely susceptible to EAB infestation and death.

The *Saving the American Ash Summit* will examine a genus in peril, as well as ways that homeowners, nature enthusiasts, and forest resource managers can work to save these beloved trees.

**Moderated by Brian M. Boom, Ph.D., VP for Conservation Strategy, NYBG**

*Saving the American Ash Summit* is partially funded by the Sarah K. de Coizart Article TENTH Perpetual Charitable Trust.

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**WHAT PLANTS CAN TEACH US**

**A Talk with Robin Wall Kimmerer**

Friday, December 1
10–11:30 am | Ross Hall, NYBG

As a botanist and member of the Citizen Potawatomi Nation, Robin Wall Kimmerer blends science’s polished art of seeing with indigenous wisdom.

An expert bryologist and inspiration for Elizabeth Gilbert’s *The Signature of All Things*, she believes mosses to be ancient storytellers from whom we can learn much about cooperation and sharing limited resources. The coral reefs of the forest and exemplars of living within one’s means, mosses build soil, purify water, and function as engines of biodiversity, even though most are less than a centimeter tall!

In this wide-ranging talk, Kimmerer shares insights from her current research and her book *Braiding Sweetgrass*, as well as her fervent belief that if we claim our own agency in tending to Earth, we can restore the relationship between plants and people.

**Robin Wall Kimmerer** is an award-winning author, Distinguished Teaching Professor at the SUNY College of Environmental Science and Forestry, and founding Director of the Center for Native Peoples and the Environment.

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**SAVE THE DATE!**

**HUMANITIES INSTITUTE SYMPOSIUM**

March 22, 2018

With Peter Wohlleben, author of *The Hidden Life of Trees*

In his best-selling book, heralded as groundbreaking by the *New York Review of Books*, forester Peter Wohlleben reveals startling new discoveries about how trees nurture each other, communicate, and maintain complex social networks. A broad range of experts will join Peter to debate plant sentience, using the latest scientific evidence that will challenge the common perception of plants and redefine our understanding of nature.
Family: Cornaceae  
Species: *Cornus florida*

**Collector’s Field Notes:**  
United States. Arkansas. Lincoln City.  
P.O. Star City. Elevation: 250 ft  
*Delzie Demarée  16760  27 Mar 1938*

Scientific specimen in the NYBG collection,  
C. V. Starr Virtual Herbarium
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.

**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.

**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.

Illustration: ©Susan Sapanara, NYBG Instructor, Stewartia monadelpha (detail)
CERTIFICATE REQUIREMENTS

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

<table>
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<th>COURSE (in Recommended Order)</th>
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<td>Botanical Drawing II: Developing Your Skills</td>
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<td>The Basics of Visual Composition (should be completed early)</td>
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<td>Botanical Drawing III: Focus on Flowers</td>
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<td>Plant Morphology for Botanical Artists</td>
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<td>Botanical Watercolor I</td>
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<td>Practical Aspects of Botanical Art</td>
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Plus one of the following:

- Internet Tools for Creatives, Part I: Social Media | BIL 394 | 5 | 11 |
- Internet Tools for Creatives, Part II: Website     | BIL 395 | 5 | 11 |
- Pen and Ink                                         | BIL 400 | 18 | 10 |
- Colored Pencil                                      | BIL 415 | 18 | 10 |

Elective courses: 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.

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<th>COURSE</th>
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<td>Gourds in Colored Pencil and Watercolor</td>
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<td>Drawing Wild Mushrooms</td>
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<td>Tropical Foliage in the Conservatory</td>
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<td>Researching Your Subject: Old Growth Hemlocks</td>
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<td>Hummingbirds</td>
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<td>Fabulous Ferns</td>
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<tr>
<td>The Secrets of Daffodils</td>
<td>BIL 347</td>
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**Plus a final project that meets Certificate standards

Courses with a prerequisite before you can register

THE CLASSES

BOTANICAL WATERCOLOR FOR BEGINNERS AND BEYOND

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

- 5 Mondays, 9/11–10/16 (no class 10/9), 10 am–2:30 pm
  - Laura Vogel | Manhattan | 181BIL140A
- 5 Mondays, 11/6–12/11 (no class 11/20), 10 am–2:30 pm
  - Laura Vogel | Manhattan | 182BIL140B
- 5 Mondays, 1/8–2/12 (no class 1/15), 10 am–2:30 pm
  - Laura Vogel | Manhattan | 183BIL140C
- 5 Saturdays, 1/20–2/24 (no class 2/17), 10 am–2:30 pm
  - Laura Vogel | NYBG | 183BIL140D
- 5 Mondays, 3/12–4/9, 10 am–2:30 pm
  - Laura Vogel | Manhattan | 183BIL140E

$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, 9/19–10/17 (no class 10/10), 10 am–1 pm
  - Susan Sapanara | NYBG | 181BIL145A
- 4 Thursdays, 9/28–10/26 (no class 10/12), 6–9 pm
  - Susan Sapanara | Manhattan | 181BIL145B
- 4 Tuesdays, 10/3–10/31 (no class 10/10), 10 am–1 pm
  - Mary Christiansen | NYBG | 182BIL145C
- 4 Thursdays, 2/8–3/1, 10 am–1 pm
  - Linda Nemergut | NYBG | 183BIL145D
- 4 Tuesdays, 3/6–3/27, 6–9 pm
  - Rose Marie James | Manhattan | 183BIL145E

$229/$249

DRAWING CONIFERS

Learn to identify and draw the key characteristics associated with coniferous plants. From needles and bark to seeds and cones, come away with a thorough grounding in the best ways to illustrate the morphological attributes of this beautiful group of plants. A tour of the Garden’s conifer collections is included. Please bring lunch and dress for the outdoors.

- Prerequisite: Botanical Drawing I
- 2 Saturdays, 9/16 & 9/23, 10 am–3:30 pm
  - Dick Rauh | NYBG | 181BIL404

$239/$265 Certificate Elective
THE THIRD NEW YORK BOTANICAL GARDEN TRIENNIAL

November 18, 2017–April 22, 2018
Ross Gallery

Out of the Woods: Celebrating Trees in Public Gardens

This is NYBG’s third collaborative exhibition with The American Society of Botanical Artists, which is headquartered here at the Garden. More than 40 selected artworks capture strikingly detailed images of trees—all of them cultivated in botanical gardens and arboreta throughout the US and around the world.

Working in watercolor, oil, graphite, colored pencil, and ink, an international collection of ASBA artists has depicted everything from seedpods, to branches and bark, to an entire forest floor. Several contributors are graduates of NYBG’s Botanical Art and Illustration Certificate Program. To view the artwork online, visit asba-art.org.

A full exhibition catalog is available at NYBG Shop.

CAPTURING THE CHARACTER OF TREES
Explore special drawing techniques and create dynamic compositions that capture the nature and “personality” of NYBG’s exquisite specimen trees. From a weeping willow to a sturdy oak, trees all have defining characteristics. Frank Guida will take you en plein air to try your hand at depicting the essence of trees. Please dress for the outdoors.

Friday, 10/6 (Rain date: 10/20), 10 am–3 pm
Frank Guida | NYBG | 182BIL205
$95/$105

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. Drawing experience is helpful but not required.

8 Tuesdays, 10/17–12/5, 10 am–12:30 pm
Dick Rauh | NYBG | 182BIL300A
$495/$545 Certificate Requirement

6 Saturdays, 2/24–4/7 (no class 3/31), 10 am–1 pm
Leslie Day | Manhattan | 183BIL300B
$495/$545 Certificate Requirement

BOTANICAL OIL PAINTING
Under the guidance of award-winning botanical artist Ingrid Finnan, create a number of small studies in oil. If you are a beginner, the basics will be covered so you have the confidence to continue exploring the medium on your own. Returning students will also be challenged with new techniques. Oil paint is an unusual medium for botanical art, and this is a wonderful opportunity to learn from a master.

3 Fridays, 10/13–10/27, 10 am–3:30 pm
Ingrid Finnan | NYBG | 182BIL321
$359/$395 Certificate Elective

NEW! GOURDS IN COLORED PENCIL AND WATERCOLOR
Layering watercolor, colored pencil, and watercolor pencil is a dynamic technique that creates rich color, detail, and form. Veteran instructor Wendy Hollender blends botanical education and art while you learn to draw different members of the gourd family. Prerequisite: Botanical Drawing I

Wednesday–Friday, 11/1–11/3, 10 am–4 pm
Wendy Hollender | NYBG | 182BIL345
$395/$435 Certificate Elective

Weekend Watercolor Workshops

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

NEW! APPLES AND PEARSLearn to evoke the glowing hues and glossy skins of autumnal fruits.
Sunday, 9/24, 10 am–3:30 pm
Susan Sapanara | NYBG | 181BIL215
$95/$105

FALL LEAVESFocus on the most brilliant and seasonal foliage—maple, ginkgo, sassafras, or even something unexpected.
Sunday, 10/22, 10 am–3:30 pm
Laura Vogel | NYBG | 182BIL203A
Sunday, 10/29, 10 am–3:30 pm
Laura Vogel | NYBG | 182BIL203B
Saturday, 11/18, 10 am–3:30 pm
Laura Vogel | Manhattan | 182BIL203C
$95/$105

NEW! SEED PODSExplore the craggy textures and desolate beauty of winter seed pods.
Sunday, 1/28, 10 am–3:30 pm
Carrie Di Costanzo | NYBG | 182BIL223
$95/$105

MARKET FLOWERSStudy the warm tones of flowers available in our corner markets, even in the winter’s cold.
Sunday, 2/11, 10 am–3:30 pm
Laura Vogel | NYBG | 183BIL225A
Sunday, 2/25, 10 am–3:30 pm
Laura Vogel | NYBG | 183BIL225B
$95/$105

Illustration: ©Stephanie Law, Stewartia pseudocamellia, Japanese Stewartia, watercolor on paper, Rhododendron Species Botanical Garden, Federal Way, WA
**NEW! BOTANICAL ART FROM THE RENAISSANCE FORWARD**

Delve into botanical art history with NYBG’s Stephen Simon, Head of Special Collections, Research and Archives, as your expert guide. Explore the evolution of the art form, from Renaissance-era woodcuts through works by contemporary artists. We’ll examine gloriously illuminated 16th-century manuscripts and botanical paintings from the Age of Exploration, as well as the work of legendary artists, such as the Bauer brothers, Redouté, and Merian, from the Golden Age of Botanical Art.

2 Fridays, 2/9 & 2/16, 10 am–3:30 pm
Robin Jess and Stephen Simon | NYBG | 183BIL255
$239/$265

**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 Tuesdays, 9/12–10/17, 6–9 pm
Laura Vogel | Manhattan | 181BIL301A
$435/$479

**BOTANICAL DRAWING II: DEVELOPING YOUR SKILLS**

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

6 Tuesdays, 10/31–12/12 (no class 11/21), 6–9 pm
Laura Vogel | Manhattan | 182BIL302A
$435/$479 Certificate Requirement

**THE BASICS OF VISUAL COMPOSITION**

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

4 Saturdays, 2/10, 3/3, 3/17 & 4/7, 10 am–3:30 pm
Lauretta Jones | NYBG | 183BIL421
$449/$495 Certificate Requirement

**BOTANICAL DRAWING III: FOCUS ON FLOWERS**

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

6 Wednesdays, 9/6–10/25 (no class 9/20 & 10/11), 6–9 pm
Rose Marie James | Manhattan | 181BIL303A
$435/$479 Certificate Requirement

**COLORED 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 burningish, tonal construction, and how to layer colors to achieve different hues and color densities. Prerequisite: Botanical Drawing II

6 Wednesdays, 1/11–2/15, 10 am–1 pm
Rose Marie James | NYBG | 183BIL415B
$435/$479 Certificate Requirement

**PRACTICAL ASPECTS OF BOTANICAL ART**

Whether or not you decide to pursue botanical art as a business, knowing standard practices will be useful. In these two sessions, you will learn the basics of dealing with galleries and artists’ reps, including pricing, contracts and sales agreements; how/when to sell certain rights, how to market your work including best options for promotional printing (business cards, exhibition postcards, booklets) and making products, as well as licensing. How to prepare for entering an exhibition or developing your own one-person show will round out the concepts. Prerequisite: Botanical Watercolor or Colored Pencil

2 Saturdays, 1/20–1/27, 11 am–4:30 pm
Carol Woodin | NYBG | 183BIL392
$245/$269 Certificate Requirement

**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

8 Mondays, 9/18–11/20 (no class 10/2 & 10/9), 6–9 pm
Rose Marie James | Manhattan | 182BIL331A
$569/$625 Certificate Requirement

**BOTANICAL WATERCOLOR II**

Practice techniques learned in Botanical Watercolor I using live subjects such as leaves, stems, and fruit. Emphasis is on realistic portrayal of botanical subjects and traditional methods of dry brush watercolor painting, with attention to detail and color accuracy. It is recommended that students take Botanical Watercolor II immediately following Botanical Watercolor I. Prerequisite: Botanical Watercolor I

6 Mondays, 12/4–1/12 (no class 12/25, 1/1 & 1/15), 6–9 pm
Rose Marie James | Manhattan | 182BIL332A
$435/$479 Certificate Elective

**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

6 Tuesdays, 1/9–2/13, 10 am–1 pm
Laura Vogel | Manhattan | 183BIL400
$435/$479 Certificate Requirement

**INSTRUCTOR BIOS CAN BE FOUND ONLINE AT NYBG.ORG/ADULTED**
NEW! RESEARCHING YOUR SUBJECT: OLD-GROWTH HEMLOCKS
A deep understanding of your subject is crucial to creating exquisite botanical art. Focusing on hemlocks, Patricia Wynne will walk you through best research practices, using world-class resources inside and outside the Garden. You’ll make reference sketches and take photos as you walk through the old-growth hemlock forest with a NYBG botanist, take a private tour of the hemlock specimens in NYBG’s Herbarium (the second largest in the world!), and visit the American Museum of Natural History to view the hemlock diorama. A final discussion will focus on the various ways research can be employed in your work.

4 Wednesdays, 10/4–10/25, 10 am–1 pm
Patricia Wynne | NYBG | 182BIL360
$289/$319 Certificate Elective

NEW! DRAWING WILD MUSHROOMS
Autumn is the prime growing time for the rich diversity of local wild mushrooms. These mysterious life forms display a variety of fleshy shapes, colors, and textures, making them great subjects for illustration. Learn to capture their beauty and accurately portray their unique morphology. Class demonstrations will help you create a contemporary botanical palette with spare prints, cuts, and more.
Prerequisite: Botanical Drawing I

3 Mondays, 10/23–11/6, 10 am–1 pm
Kathie Miranda | NYBG | 182BIL343
$215/$235 Certificate Elective

NEW! TROPICAL FOLIAGE IN THE CONSERVATORY
Spend two winter afternoons in the sunlit Lowland Tropical Rain Forest Gallery sketching the plants that flourish there. With Wendy Hollender as your guide, capture the leaves and tendrils of exotic flora from the unique vantage point of the skywalk that takes you into the rainforest canopy. Space is limited due to the size of the skywalk.

Tuesday & Wednesday, 12/13 & 12/14, 2–5 pm
Wendy Hollender | NYBG | 182BIL377
$245/$269 Certificate Elective

NEW! HOLLY AND MAGNOLIA
Building on skills learned in Botanical Watercolor I, combine wet and drybrush techniques to evoke the waxy, glossy, and fuzzy textures found in the leaves of hollies and magnolias. Sparkling highlights, rich greens, and drybrush details will be demonstrated with ample personal assistance. Take advantage of this opportunity to improve your ability to paint veins and leaf edges as well.
Prerequisite: Botanical Watercolor I

3 Fridays, 1/19–2/2, 10 am–2 pm
Robin Jess | NYBG | 183BIL340
$289/$319 Certificate Requirement

NEW! HUMMINGBIRDS
Hummingbirds play a key role in the pollination of many flower types and can add lively interest to your botanical art. You’ll learn the anatomy, habitat and behavior of these diminutive birds, as well as techniques for rendering their vivid hues in colored pencil, watercolor, or graphite. While we will work from photographs, we’ll also share tips for sketching in the field.
Prerequisite: Botanical Drawing II

4 Tuesdays, 2/6–2/27, 10 am–1 pm
Mary Christiansen | NYBG | 183BIL382
$289/$319 Certificate Elective

FABULOUS FERNS
From the fiddlehead to the frond, ferns have a charm all their own. In the studio and the Conservatory, you’ll examine some of their special adaptations and growth patterns, then use your graphite pencil or pen and ink to create graceful images of different genera in this beautiful and varied group. Final project will be in the medium of your choosing.
Prerequisite: Botanical Drawing I

3 Fridays, 2/23–3/9, 10 am–3:30 pm
Dick Rauh | NYBG | 183BIL344
$359/$395 Certificate Elective

NEW! IN-PROGRESS PORTFOLIO CRITIQUE
As a developing artist, you need personalized, supportive evaluation to improve your techniques. This is your chance to bring your finished art and work-in-progress for respectful, careful feedback via group discussion and teacher-led demos. We’ll pay special attention to your ability to convey the intricacy of your subject. Are your details complete? Are your tonal values correct? Works in colored pencil, graphite, or watercolor are welcome. This class is open to all and highly recommended for Portfolio candidates.

Wednesday, 2/28, 10 am–3:30 pm
Robin Jess | NYBG | 183BIL208
$119/$129

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 range and variety of warm and cool yellows, and practice mixing and applying their correct 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.
Prerequisite: Botanical Watercolor I

3 Tuesdays, 3/6–3/20, 10 am–3:30 pm
Betsy Rogers-Knox | NYBG | 183BIL347
$359/$395 Certificate Elective

INTERNET TOOLS FOR CREATIVES PART I: SOCIAL MEDIA
Learn how to use Facebook, Instagram, Twitter, and Pinterest to showcase your work. Define your goals for using social media as a marketing tool, and create a strategy to achieve those goals. Discover tips for attracting and engaging followers. Basic smartphone fluency is recommended. If possible, please bring a smartphone with the aforementioned apps pre-downloaded.

Saturday, 2/3, 10 am–3:30 pm
Bill Herman | NYBG | 183BIL394
$115/$129 Certificate Requirement

INTERNET TOOLS FOR CREATIVES PART II: WEBSITE
Having a professional online presence is essential to getting the word out about your work. In this hands-on class, you will build a simple website (no coding required!) to showcase your portfolio using Wix.com, a free and easy-to-use platform. We will also showcase free online photo-editing tools. Basic familiarity with internet navigation is expected. Bring a laptop and 10–15 digital images of your work. In this hands-on class, you will build a simple website (no coding required!) to showcase your portfolio using Wix.com, a free and easy-to-use platform. We will also showcase free online photo-editing tools. Basic familiarity with internet navigation is expected. Bring a laptop and 10–15 digital images of you, your studio and your work to use in building your new site.

Saturday, 2/24, 10 am–3:30 pm
Bill Herman | NYBG | 183BIL395
$115/$129 Certificate Requirement

Illustration: ©Esmée Winkel, Liriodendron tulipifera, Leiden’s 300-year-old Liriodendron tulipifera in Autumn, watercolor on paper, Hortus Botanicus, Leiden, Holland
Family: Asteraceae
Species: Chliotrichum amelloides

Collectors’ Field Notes:
Plants of Captain Cook’s First Voyage 1768–1771
Argentina. Tierra Del Fuego.
Coll. Joseph Banks & Daniel Solander  1769

Scientific specimen in the NYBG collection, C. V. Starr Virtual Herbarium
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**

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**ELECTIVES**

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*Course hours do not include exam hours

**Questions?**

**Contact Program Coordinator**

JAMIE BOYER, PH.D.,
AT JBOYER@NYBG.ORG

“I was a self-taught estate gardener and I wanted to learn more. The Botany program at NYBG was exactly what I’d been looking for. Each instructor offered professionalism and passion to the classes they taught. From the cellular to the tangible, I left every session with my mind expanded! Through this program, I’ve broadened my understanding, deepened my connection to the plants that grow around me, and humbly realized there is still so much more to learn about them.”

—KRISTEN GARNIER, 2017 Graduate
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 Tuesdays, 9/12–10/10, 10:30 am–12:30 pm
Jennifer Bakshi | NYBG | 181GAR360A

5 Thursdays, 9/28–11/12 (no class 10/12), 6:15–8:15 pm
Jennifer Bakshi | Manhattan | 181GAR360B

5 Tuesdays, 1/9–2/6, 11 am–1 pm
Jennifer Bakshi | NYBG | 183GAR360C

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

$255/$279 Certificate Elective

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, 9/26, 10 am–2:30 pm
Nancy Slowik | NYBG | 181BOT155

$85/$89

NEW! 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.

Tuesday, 10/23, 10 am–2:30 pm
Nancy Slowik | NYBG | 183GAR366A

$145/$159 Certificate Elective

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

2 Tuesdays, 11/7 & 11/14, 10 am–1 pm
Steve Kutos | NYBG | 182BOT385

$125/$139 Certificate Elective

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.

NEW! HOW FLOWERING PLANTS REPRODUCE
In order to propagate their species, all flowering plants rely on wind, water, or animals to carry pollen from a male stamen to a female pistil. But how reproduction in each species actually occurs differs dramatically. Some flowers have male OR female organs (imperfect flowers), while others have both (perfect flowers). Some species begin life as female and become male as they grow. NYBG Curator Fabián Michelangeli will be your guide as you use microscopes, investigate the morphology of a variety of angiosperms, and explore how that impacts their pollination.

Tuesday, 10/31, 10 am–1 pm
Fabián Michelangeli, Ph.D. | NYBG | 182BOT384

$75/$79 Certificate Elective

THE HIDDEN WORLD OF LICHENS
Lichens are sensitive environmental indicators, colors and shapes. They grow on bark, rock, and barren soil, and thrive in rain forests, deserts, the arctic—even environments simulating Mars! Lichens are sensitive environmental indicators, yet scientists are only just beginning to understand them. Join noted NYBG lichenologist James Lendemer for a captivating session that includes a microscope lab and a lichen hunt on the Garden grounds. Dress for the weather.

Thursday, 2/22, 10 am–1 pm
James Lendemer, Ph.D. | NYBG | 183BOT313

$75/$79 Certificate Elective

NEW! 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, 9/5–10/24, 12:30–3:30 pm
Carlos Rodrigues | NYBG | 181BOT432S

$495/$545 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 Tuesdays, 11/7 & 11/14, 10 am–1 pm
Steve Kutos | NYBG | 182BOT385

$125/$139 Certificate Elective

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

Saturday, 11/18, 10 am–2:30 pm
Andrea Canede | NYBG | 182BOT346A

Saturday, 1/27, 10 am–2:30 pm
Karine Gordiner | Manhattan | 183BOT346B

Sunday, 3/4, 10 am–2:30 pm
Andrea Canede | NYBG | 183BOT346C

$95/$105 Certificate Elective

MUSHROOM MANIA
Labor Day through Halloween is the prime harvest season for wild mushrooms in the Northeast, and some of the world’s most highly valued medicinal mushrooms grow right here in NYC! Join mushroom expert Gary Lincoff, author of the Audubon Society’s Field Guide to North American Mushrooms, as he covers how to identify different species and their look-alikes, where to find them, how to collect them, and how to preserve them for future use. Embark on mushroom hunts together on the Garden grounds, in Central Park, and Inwood Hill Park. Dress for the weather.

4 Wednesdays, 10/25–11/15, 10 am–1 pm
Gary Lincoff | NYBG | 182BOT363

$289/$315 Certificate Elective

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

2 Tuesdays, 11/7 & 11/14, 10 am–1 pm
Steve Kutos | NYBG | 182BOT385

$125/$139 Certificate Elective

NEW! 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, 9/5–10/24, 12:30–3:30 pm
Carlos Rodrigues | NYBG | 181BOT432S

$495/$545 Certificate Elective

Illustration: ©Lucy Martin, Acer macrophyllum, Big-leaf Maple (detail), gouache on paper, University of California Berkeley Botanical Garden, Berkeley, CA
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 Mondays, 9/25–11/27 (no class 10/9), 10 am–1 pm
Acer VanWallendael, Ph.D. | NYBG | 181BOT315P

9 Mondays, 1/29–4/2 (no class 2/19), 5–8 pm
Ursula Basch | NYBG | 183BOT470B

6 Saturdays, 2/3–3/17 (no class 2/17), 2–4 pm

6 Thursdays, 10/19–11/30 (no class 11/23), 6–8 pm
Regina Alvarez, Ph.D. | NYBG | 183BOT316P

$295/$325 Certificate Elective

Exam on last class date.

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

4 Thursdays, 10/19–11/9, 6–9 pm | Daniel Atha and Sheranza Alli | NYBG | 182BOT338

$365/$395 Certificate Elective

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

8 Thursdays, 9/28–11/16 (no class 10/9), 5:15–8:15 pm
Regina Alvarez, Ph.D. | NYBG | 181BOT316A

8 Thursdays, 11/30–2/2 (no class 12/21 & 12/28), 5:15–8:15 pm
Regina Alvarez, Ph.D. | NYBG | 182BOT316S

8 Wednesdays, 1/10–2/28 (no class 1/25), 5:15–8:15 pm
Regina Alvarez, Ph.D. | NYBG | 183BOT316P

$559/$615 Certificate Requirement

MEDICAL BOTANY
This introduction to herbalism covers herbal traditions and highlights specific, health-optimizing foods and plants. Study the medicinal properties of plants used for the digestive, respiratory, and circulatory systems, as well as best practices for cultivating, harvesting, and storing herbs. Learn to prepare basic herbal teas, poultices, and soaks. The focus of the course is on how plants affect the body (carminatives, cholagogues, expectorants); the role of plant hormones in growth and development is discussed as well as plant movement, water transport through the plant body, and plant metabolism, including photosynthesis and respiration (anaerobic and aerobic). We will cover the basic chemistry needed to understand plant physiology. Prerequisite: Plant Structure.

8 Thursdays, 9/28–11/16 (no class 10/9), 5:15–8:15 pm
Regina Alvarez, Ph.D. | NYBG | 181BOT316A

8 Thursdays, 11/30–2/2 (no class 12/21 & 12/28), 5:15–8:15 pm
Regina Alvarez, Ph.D. | NYBG | 182BOT316S

8 Wednesdays, 1/10–2/28 (no class 1/25), 5:15–8:15 pm
Regina Alvarez, Ph.D. | NYBG | 183BOT316P

$559/$615 Certificate Requirement

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

6 Saturdays, 10/14–12/2 (no class 11/11 & 11/25), 10 am–1 pm
James Kaechele | NYBG | 182BOT335

$379/$415 Certificate Requirement

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

4 Fridays, 10/6–10/27, 10 am–1 pm
Nancy Slowik | NYBG | 182BOT331

$295/$325 Certificate Requirement

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

4 Fridays, 1/19–2/9, 10 am–1 pm
Nancy Slowik | NYBG | 183BOT332

$295/$325 Certificate Requirement

Treasures from the Vault
With 7.8 million specimens, NYBG’s Steere Herbarium is the second largest herbarium in the world. Thanks to the ongoing research and exploration of NYBG scientists and curators, new discoveries are continually being added to its impressive holdings. This series provides a rare glimpse into our collections from those who know it best.

NEW! A JOURNEY THROUGH TIME: EARLY AMERICAN BOTANICAL COLLECTIONS
“At my feet lay the Great Central Valley of California, like a lake of pure sunshine, forty or fifty miles wide, five hundred miles long, one rich furred garden of yellow Compositae.” Conservationist John Muir illustrates how dazzling American floras were to those who pushed westward, a bounty of botanists hurried to document. Discover more about these early expeditions while viewing collections created by noted 19th-century figures, including Muir, General George Custer, and John Torrey, the father of American botany.

Thursday, 10/5, 10 am–1 pm
Nicol Tarnowsky | NYBG | 182BOT337

$75/$85 Certificate Elective

NEW! RECENT BOTANICAL EXPLORATION IN NORTH AMERICA
America’s astounding biodiversity still holds plenty of secrets, many of which NYBG scientists are striving to unlock. Join Matthew Pace, Assistant Curator of the Steere Herbarium, as he tells tales of modern-day exploration and showcases specimens of recently discovered species, including new orchids, sunflowers, beardtongues, carnivorous pitcher plants, and a lichen named after Dolly Parton.

Wednesday, 1/17, 10 am–1 pm
Matthew Pace, Ph.D. | NYBG | 183BOT339

$75/$85 Certificate Elective
NEW! PAPER ROSES WITH LIVIA CETTI

“Are those flowers real?” It’s a question Livia Cetti, the nation’s premiere paper flower artist, hears a lot. And make no mistake, the high-style, ethereal blooms she twists and folds from delicate, hand-dyed paper are remarkably realistic. In this new workshop, Livia shows you how to make a rose 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, 10/12, 10 am–1 pm
Livia Cetti | NYBG | 182CRF119
$149/$165

NEW! BLACK ASH BASKETRY

Michigan-based and nationally recognized Anishnabe basketmaker Kelly Church will show you how to create a traditional round-bottom basket out of black ash splints. Kelly is a featured speaker at our Saving the American Ash summit about the cultural importance of ash trees and the danger they face from the Emerald Ash Borer beetle.

Friday, 10/13, 3–5 pm
Kelly Church | NYBG | 182CRF172
$159/$175

NEW! BLOCK PRINTED GIFT WRAP

Make ecologically friendly gift wrap, hand-printed with plant patterns. Renowned Hudson Valley artist Caitlin Parker leads you step-by-step through designing and carving a simple botanical shape into a small rubber printing block. Use this to stamp a whimsical pattern with a variety of inks on recycled paper. This is one gift wrap that won’t be thrown out!

Saturday, 10/28, 10 am–1 pm
Caitlin Parker | NYBG | 182CRF203B
$139/$155

NEW! BOTANICAL PRINT SEASONAL CARDS

Showcase the detailed beauty and organic form of botanical materials on your holiday cards this season. Caitlin Parker will teach you how to paint ferns, leaves, and flowers she has pressed, which you will then use as stamps to create cards guaranteed to bring cheer to everyone on your list.

Saturday, 10/28, 2–5 pm
Caitlin Parker | NYBG | 182CRF203C
$139/$155

Register for both Caitlin Parker classes and receive 10% off! | 182CRF203A

Family: Aceraceae
Species: Acer palmatum

Collector’s Field Notes: United States. New York. Bronx Co. For the study of flavonoid chemistry. Fall foliage red to scarlet; cult. Survey executed in partial fulfillment of degree requirements of the Joint Doctoral Program of the City University of New York and The New York Botanical Garden.

T. J. Delendick 06 Nov 1973

Scientific specimen in the NYBG collection, C. V. Starr Virtual Herbarium
NEW! LAVENDER & LEMON WREATH
In this new twist on an ever-popular class, explore the best techniques for lavender harvesting, drying, and arranging, all while learning how to create your own wild vine base. Add dried lavender and lemon, plus other greens to the finished wreath, bringing the freshness of the countryside into your home.

Sunday, 10/29, 10:30 am–1 pm
Diana Conklin | NYBG | 182CRF150
$115/$125

GIRLS’ NIGHT OUT: SEASONAL CENTERPIECE
Gather your friends, sisters, or mom for a night of fun at our Midtown Center. Get creative as you put together your own professional-looking floral arrangement while enjoying hors d’oeuvres, music, and the company of other women. One part class, one part party. Girls’ Night Out is a wonderful way to unwind while learning something new. Go home with a unique autumn or winter arrangement, depending on the season.

Thursday, 10/12, 6:30–8:30 pm
Yoli LaGuerre, CFD, AIFD | Manhattan | 182CRF115A

Thursday, 12/7, 6:30–8:30 pm
Yoli LaGuerre, CFD, AIFD | Manhattan | 182CRF115B

Monday, 2/5, 6:30–8:30 pm
Yoli LaGuerre, CFD, AIFD | Manhattan | 183CRF115C
$139/$155

LIVING DÉCOR: SUCCULENTS, STONES, AND MOSS GEODESIC DOME TERRARIUM
Use a selection of plump succulents, thick moss, and stones, housed in a geometric glass vessel, to make a delightful oasis garden, under the guidance of an instructor who literally wrote the book Terrariums: Gardens Under Glass.

Monday, 11/20, 6:30–8:30 pm
Maria Colletti | NYBG | 182CRF162A

Wednesday, 1/24, 6:30–8:30 pm
Maria Colletti | 183CRF162B
$115/$125

NEW! QUILLED SNOWFLAKE ORNAMENTS
Create elegant ornaments using paper quilling, a Renaissance-era art form. Paper artist Marna Chester will show you how to roll, shape, and glue strips of paper to create basic coil shapes that can be arranged into intricate patterns, bringing old-world charm into your holiday home. No previous experience required.

Wednesday, 11/8, 6–9 pm
Marna Chester | Manhattan | 182CRF223A

Tuesday, 12/5, 11 am–2 pm
Marna Chester | NYBG | 182CRF223B
$79/$85

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

Sunday, 12/10, 10 am–1 pm
Madeline Yanni | NYBG | 182CRF155
$115/$125

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

Saturday, 12/16, 1:30–4 pm
Diana Conklin | NYBG | 182CRF158
$115/$125

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.

Sunday, 2/4, 10 am–1 pm
Nick Gershberg | NYBG | 183CRF148
$95/$105

NEW! 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, 2/24, 10 am–1 pm
Tara Douglass | NYBG | 183CRF230A

Saturday, 3/17, 10 am–1 pm
Tara Douglass | Manhattan | 183CRF230B
$145/$159

NEW! SPIRAL FORMS IN NATURE
From seashells to DNA, many natural phenomena share a beautiful spiral structure that follows the Fibonacci sequence. With Karen Fuchs as your guide, you’ll combine art and science by closely observing, sketching, and creating sculptural clay forms, taking inspiration from natural specimens.

Saturday, 3/3, 10 am–12:30 pm
Karen Fuchs | NYBG | 183CRF234
$65/$69

REGISTER ONLINE AT NYBG.ORG/ADULTED OR CALL 800.322.NYBG (6924)
Family: Rosaceae
Species: Malus ‘Burgundy’

Collector’s Field Notes: Tree 4 m tall, the trunk 38 cm diam; bark grey, rough with lenticels; leaves with some copper color upon emerging, the petioles red; whole flower reddish purple.


Daniel Atha  13381  28 Apr 2013

Scientific specimen in the NYBG collection, C. V. Starr Virtual Herbarium
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.

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.

STUDENT INFORMATION

REGISTRATION

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

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

CLASS MATERIALS

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

To purchase a tool kit, including a knife, wire cutter, scissors, and pruners, please stop by our Registration Office at NYBG or our Midtown Center.

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.

Program Coordinator Tom Cawley is a certified Master Designer with four decades of diverse experience in retail and high-end event production. He has created lush, large-scale projects for royalty, political figures, and society clients in France, Monte Carlo, Saudi Arabia, the UK, and the US; and for the past ten years, he has been an inspirational instructor here at NYBG.

QUESTIONS?

CONTACT PROGRAM COORDINATOR TOM CAWLEY AT
FDNCOORDINATOR@NYBG.ORG

“NYBG’s Floral Design Program gave me the confidence in myself as a designer that opened doors to future opportunities and eventually led me to start my own business in the field.”

— VICTORIA MONSUL SINGOLDA, 2017 Graduate and Owner of Iris & Virgil

“I was so well prepared that by the time I started my internship at Seasons on the Hudson, I was hired before I was done with the program!”

— SUMIE NOBUNAGA LAMPORT, 2017 Graduate
THE CLASSES

FLOWER ARRANGING WITH STORE-BOUGHT BOUQUETS
Create your own professional-looking arrangements with economical, store-bought bouquets. Using simple design principles and fresh flowers from European-style displays in your grocery store, learn how to design and create your own elegant arrangements. $45 materials fee.

- Monday, 9/18, 6–8 pm
  Robb Moss | Manhattan | 181FDN210A
- Tuesday, 10/24, 11 am–1 pm
  Rose G. Edinger, AIFD | NYBG | 182FDN210B
- Thursday, 10/26, 11 am–1 pm
  Rose G. Edinger, AIFD | Manhattan | 182FDN210C
- Tuesday, 11/7, 11 am–1 pm
  Rose G. Edinger, AIFD | NYBG | 182FDN210D
- Monday, 11/20, 6–8 pm
  Robb Moss | Manhattan | 182FDN210E
- Monday, 12/11, 11 am–1 pm
  Nsombi Woodson | Manhattan | 182FDN210F
- Tuesday, 2/20, 11 am–1 pm
  Rose G. Edinger, AIFD | Manhattan | 183FDN210G
- Thursday, 3/8, 11 am–1 pm
  Robb Moss | NYBG | 183FDN210H

$49/$55

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

- Thursday, 10/19, 11 am–1 pm
  Rose G. Edinger, AIFD | NYBG | 182FDN210A
- Wednesday, 11/29, 6–8 pm
  Robb Moss | Manhattan | 182FDN210B
- Tuesday, 2/27, 6–8 pm
  Rose G. Edinger, AIFD | Manhattan | 183FDN210C
- Tuesday, 3/27, 11 am–1 pm
  Bridget Zivoso | NYBG | 183FDN210D

$49/$55

CERTIFICATE REQUIREMENTS

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Elective courses: 32
TOTAL REQUIRED HOURS: 152

ELECTIVES

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

UPSTATE DAHLIAS
Vibrant, locally sourced dahlias make for simple yet spectacular arrangements that are perfect for a mantel, entry table, or dining centerpiece. Take a page from trend-setting farm-to-table designers, and fashion a playful, free-flowing creation that showcases the exuberance of these late-summer blooms. $90 materials fee. [Prerequisite: Fundamentals of Form]

Monday, 9/25, 10 am–1 pm
Nsombi Woodson | NYBG | 181FDN377
$115/$125 Certificate Elective

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

Thursday, 10/5, 6–9 pm
Yoli LaGuerre, CFD, AIFD | Manhattan | 182FDN314
$95/$105 Certificate Elective

CASCADEING BOUQUET
Love those lush, flowing bouquets you see in magazines and on social media? Work with gorgeous blooms bursting with texture, romance, and color while learning the basics of the European hand-tie method from Nsombi Woodson, a top NYC designer for over 20 years. $85 materials fee.

Monday, 10/23, 6–9 pm
Nsombi Woodson | Manhattan | 182FDN371
$95/$105 Certificate Elective

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.

Tuesday, 10/31, 10 am–1 pm
Nsombi Woodson | NYBG | 182FDN342A
$95/$105 Certificate Elective

Wednesday, 11/1, 10 am–1 pm
Nsombi Woodson | NYBG | 183FDN342B
$95/$105 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, 11/9–11/30 (no class 11/23), 11 am–2 pm
Junko Miura | Manhattan | 182FDN325
$255/$279 Certificate Elective

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

Thursday, 12/7, 10 am–4:30 pm
Rose G. Edinger, AIFD | NYBG | 182FDN405
$179/$195 Certificate Elective

NEW! 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.

Thursday, 1/11, 10 am–4:30 pm
Bridget Vizoso | NYBG | 183FDN369A

Tuesday, 3/6, 10:30 am–5 pm
Bridget Vizoso | Manhattan | 183FDN369B
$179/$195 Certificate Elective

COMPOTE ARRANGEMENT
Learn the techniques and secrets for creating chic, vintage-inspired arrangements in a trendy footed container. Walk through the step-by-step process of crafting a lush, romantic centerpiece. $85 materials fee.

Wednesday, 1/17, 10:30 am–3 pm
Liza Lubell | NYBG | 183FDN349A

Monday, 2/26, 10:30 am–3 pm
Nsombi Woodson | Manhattan | 183FDN349B
$125/$139 Certificate Elective

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Nsombi Woodson | Manhattan | 183FDN349B
$125/$139 Certificate Elective

WILD SCULPTURE with Emily Thompson
Trailblazing “five-star” floral designer Emily Thompson is known for organically beautiful compositions that wildly celebrate the natural world, yet are artfully composed “like some unseen mythical hand had styled them” (Elle). Her work features the freshest local, foraged, and rare specimens arranged in conversation with their surroundings, seeking contrasts that emphasize the essential nature of each material.

In this hands-on workshop, Emily will inspire students with her personal aesthetic—“flowers with teeth”—as they incorporate branches, vines, and grasses into dramatic designs crafted with unusual flowers...all meant to evoke forest and field, swamp and bog. [Prerequisite: Fundamentals of Form]

Friday, 9/22, 10 am–1 pm
Emily Thompson | NYBG | 181FDN457
$245/$269 Certificate Elective
Holiday Workshops

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

Friday, 12/1, 10 am–3:30 pm
Ken Norman, AIFD | NYBG | 182FDN335A
$135/$149 Certificate Elective

NEW! WINTER SCULPTURAL ARRANGEMENTS
Grand vases filled with holly and magnolia add warmth and cheer throughout the winter. Accent these greens with amaryllis and other winter blooms. These flowers can be replaced or augmented for specific holiday events, keeping your arrangement looking fresh throughout the whole season. $150 materials fee.

Friday, 12/8, 10 am–1 pm
Nancy White | NYBG | 182FDN361
$115/$125 Certificate Elective

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

Wednesday, 12/13, 10 am–2:30 pm
Thomas Cawley | NYBG | 182FDN355
$115/$125 Certificate Elective

NEW! HOLIDAY CENTERPIECE
A festive compote of unique greens with extra pops of color from berries, roses, and cymbidium orchids brings life and beauty to your holiday table. Swap out the flowers to create a striking centerpiece that can be easily adapted for each event you host. $100 materials fee.

Friday, 12/15, 10 am–1 pm
Nancy White | NYBG | 182FDN378
$115/$125 Certificate Elective

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

Wednesday, 2/7, 10:30 am–3 pm
Bridget Vizoso | NYBG | 183FDN368
$125/$135 Certificate Elective

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, explore working with fresh flowers, ribbons, and bows. Advance to the techniques of styling and assembling bridal and bridesmaid bouquets. $225 materials fee. Prerequisite: Fundamentals of Form

Monday, 3/12, 10 am–1 pm
Sierra Steifman | NYBG | 183FDN379
$145/$155 Certificate Elective

FLORAL TECHNIQUES: FOLDING, ROLLING & WEAVING
Reshape foliage into unique, playful shapes by weaving, plaiting, rolling, or knotting it. Add Aspidistra leaves, palm fronds, hala, and other plants to bold, tropical flowers to create two dramatic contemporary arrangements. $70 materials fee.

Tuesday, 2/6, 10 am–3:30 pm
Rose G. Edinger, AIFD | NYBG | 183FDN411
$135/$149 Certificate Elective

CERTIFICATE CLASSES

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 Saturdays, 10/28–12/9 (no class 11/14, 11/25), 10:30 am–3 pm
Yoli LaGuerre, CFD, AIFD | NYBG | 182FDN302A
$395/$435 Certificate Requirement

4 Tuesdays, 1/9–1/30, 10 am–2:30 pm
Thomas Cawley | NYBG | 182FDN300B
$125/$135 Certificate Elective

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, 1/22–2/12, 10 am–2:30 pm
Thomas Cawley | NYBG | 183FDN300D
$395/$435 Certificate Requirement

4 Tuesdays, 1/29–2/1, 10 am–2:30 pm
Jameel Gilbert | Manhattan | 181FDN300B
$395/$435 Certificate Requirement

4 Mondays, 3/12–4/16, 10 am–2:30 pm
Bridget Vizoso | NYBG | 183FDN381
$395/$435 Certificate Requirement

4 Wednesdays, 1/11–2/15, 10 am–2:30 pm
Yoli LaGuerre, CFD, AIFD | NYBG | 182FDN302A
$395/$435 Certificate Requirement

4 Tuesdays, 10/19–11/30, 10 am–2:30 pm
Thomas Cawley | NYBG | 183FDN300C
$125/$135 Certificate Elective

4 Tuesdays, 11/8–12/6 (no class 11/22), 10:30 am–3 pm
Yoli LaGuerre, CFD, AIFD | NYBG | 182FDN302C
$395/$435 Certificate Requirement

4 Tuesdays, 1/29–2/1, 10:30 am–3 pm
Jameel Gilbert | Manhattan | 183FDN302D
$395/$435 Certificate Requirement

4 Tuesdays, 2/20–3/13, 10 am–2:30 pm
Thomas Cawley | NYBG | 183FDN302E
$395/$435 Certificate Requirement
WEDDING DESIGN II: CEREMONY & RECEPTION
Design and create arrangements appropriate for the ceremony, season, and setting, including aisle and altar designs, pew arrangements, and banquet table centerpieces. Work with a remarkable array of flowers, foliage, and fabrics to create captivating garlands and columns. Discussions include a variety of ceremonial styles, including chuppahs, in both outdoor and indoor venues. $245 materials fee. Prerequisite: Wedding Design I
6 Wednesdays, 9/27–11/8 (no class 10/11), 6:15–8:55 pm
Nancy White | NYBG | 182FDN310A
6:15–8:55 pm
2 Fridays, 10/26 & 11/2, 10 am–2:30 pm
Chris Raimondi, CLP | NYBG | 182FDN310A
$195/$215 Certificate Requirement

INTERIOR PLANTSCAPES
Florists and floral designers who want long-lasting, gorgeous interior plantings won’t want to miss this unique class from florist, horticulturist, and indoor plant expert Chris Raimondi. In this class, Chris shares essential horticulture practices for proper selection and maintenance of plants used in atria, corporate offices, and for special events. Trimming, pruning, soil testing, pest prevention, cleaning, and more are covered. $30 materials fee.
2 Thursdays, 10/26 & 11/2, 10 am–2:30 pm
Chris Raimondi, CLP | NYBG | 182FDN310A
$195/$215 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 is identified. Lunch is not included. Dress for the weather. Prerequisite: Fundamentals of Style
Thursday, 9/28, 9 am–1:30 pm
Rose G. Edinger, AIFD | Off site | 181FDN306A
Monday, 11/13, 9 am–1:30 pm
Nombi Woodson | Off site | 182FDN306B
$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 Fridays, 10/6 & 10/13, 10 am–2:30 pm
Yoli LaGuerre, CFD, AIFD | NYBG | 182FDN306A
3 Thursdays, 11/2–11/16, 6:15–8:55 pm
Rose G. Edinger, AIFD | Off site | 181FDN306A
2 Saturdays, 1/20 & 1/27, 11 am–3:30 pm
Julio Jimenez | NYBG | 183FDN306B
3 Wednesdays, 2/21–3/7, 6:15–8:55 pm
Jameel Gilbert | Off site | 182FDN306B
$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.
2 Thursdays, 10/15 & 10/22, 10 am–3 pm
Jameel Gilbert | NYBG | 182FDN308A
3 Thursdays, 2/8–2/22, 6:15–8:55 pm
Rose G. Edinger, AIFD | Off site | 182FDN308B
2 Thursdays, 2/22 & 3/1, 10:30 am–3 pm
Nancy White | NYBG | 183FDN308C
$195/$215 Certificate Requirement

PRAGTICAL 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
3 Mondays, 11/27–12/12, 6:15–8:55 pm
Nancy White | NYBG | 182FDN408A
2 Fridays, 3/16 & 3/23, 10 am–2:30 pm
Nancy White | NYBG | 183FDN408B
$195/$215 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 is identified. Lunch is not included. Dress for the weather. Prerequisite: Fundamentals of Style
Thursday, 9/28, 9 am–1:30 pm
Rose G. Edinger, AIFD | Off site | 181FDN306A
Monday, 11/13, 9 am–1:30 pm
Nombi Woodson | Off site | 182FDN306B
$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 Fridays, 10/6 & 10/13, 10 am–2:30 pm
Yoli LaGuerre, CFD, AIFD | NYBG | 182FDN306A
3 Thursdays, 11/2–11/16, 6:15–8:55 pm
Rose G. Edinger, AIFD | Off site | 181FDN306A
2 Saturdays, 1/20 & 1/27, 11 am–3:30 pm
Julio Jimenez | NYBG | 183FDN306B
3 Wednesdays, 2/21–3/7, 6:15–8:55 pm
Jameel Gilbert | Off site | 182FDN306B
$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. $125 materials fee. Prerequisite: Wedding Design I
Tuesday–Thursday, 1/16–1/18, 10:30 am–3 pm
Jameel Gilbert | Off site | 182FDN306B
3 Wednesdays, 3/7–3/21, 10 am–2:30 pm
Jameel Gilbert | Off site | 182FDN306B
$285/$315 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
Family: Rosaceae  
Species: *Malus × arnoldiana*

**Collector’s Field Notes:**  
United States, New York, Bronx Co.  
New York Botanical Garden, Donald J. Bruckmann Crabapple Collection.  
West of the Bronx River and South of Waring Avenue. Sloping lawn with daffodils and specimen trees.  

Tree 2.5 m tall, the trunk 25 cm diam; bark grey, smooth, scaly near the base of the tree; stipules somewhat persistent on petioles; flowers rotate, pink and white, fragrant. Cultivated.

*Daniel Atba*  15044  4 May 2015

Scientific specimen in the NYBG collection, C. V. Starr Virtual Herbarium
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.

CERTIFICATE REQUIREMENTS

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

For professional organizations, see p. 55.

NYBG’s Gardening Program Coordinator, Daryl Beyers, has over 20 years of professional landscaping experience specializing in residential garden design and development. As a staff writer, photographer, and editor for *Fine Gardening* magazine he authored two special issues on garden design (*Great Gardens Vols. 1 & 2*) and more recently served as Contributing Garden Editor for *Martha Stewart Living*. His articles on gardening and garden design have also appeared in *Horticulture* and *HGTV Magazine*.

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

“I gardened for many years without really understanding the how or why of the plant world. Studying at NYBG has made me more articulate as a writer, garden teacher for young children, and neighborhood environmentalist.”

—ANNE D. HAAS, 2017 Graduate

“I am a city planner who has funded public parks. My gardening education at NYBG was a rewarding experience that has led me to tackle projects with more confidence!”

—DEENA PARHAM, 2017 Graduate
THE CLASSES

NEW! ALL ABOUT BULBS
Since October is the optimum month to plant bulbs, now is the time to decide what will work best in your garden. Martha Stewart’s Head Gardener, Ryan McCallister is a bulb expert, having grown hundreds of thousands on her farm. He’ll be your guide through the biology, cultural needs, and particular habits of a wide variety of bulb types.
Saturday, 9/23, 10 am–1 pm  
Ryan McCallister | NYBG | 181GAR220  
$75/$85

NEW! LESSONS FROM MARTHA’S FARM
Get an exclusive behind-the-scenes look at Martha Stewart’s flawless farm in Bedford, N.Y.—from Ryan McCallister, her Head Gardener. Ryan will share gorgeous images of the farm’s various gardens, groves, and allees in bloom, along with insights into the work that keeps it beautiful and thriving. Even better, he’ll answer your questions, so you can find out what might be possible to re-create in your garden!
Saturday, 10/14, 10 am–1 pm  
Ryan McCallister | NYBG | 182GAR221A  
Saturday, 2/10, 11 am–2 pm  
Ryan McCallister | Manhattan | 183GAR221B  
$75/$85

PUT YOUR GARDEN TO BED
What can you do this fall to ensure a healthy garden next spring? Get a head start on your best garden ever by taking care of it now! Learn techniques to improve soil quality, protect perennials and tender plants through the winter, eliminate choice over-wintering sites for insects and diseases, and manage all those fallen leaves.
Thursday, 10/5, 6–8 pm  
Leda Meredith | Manhattan | 182GAR185A  
Friday, 10/6, 10 am–12 pm  
Leda Meredith | NYBG | 182GAR185B  
$45/$49

NEW! JAMMING WITH SEASONAL BERRIES
Get a little messy making late-summer fruit jam! Learn the basics of preserving without additives, discover new recipes, and cover the latest safety tips, while making a batch of jam that will transport you back to the warmth of summer, even in the dark of winter.
Sunday, 9/24, 10 am–1 pm  
Michael Blakeney | NYBG | 181GAR205  
$95/$105

NEW! BASIC BOTANY FOR GARDENERS
Understanding how plants grow is vital to successful gardening. Ideal for gardeners at any level, this course explores the basic principles of plant physiology with a focus on vital aspects of botany that every gardener should understand. Learn helpful tricks and tips as we study core botanical principles in fast and friendly terms.
3 Mondays, 10/23–11/6, 10–12:40 pm  
Daryl Beyers | NYBG | 182GAR312A  
3 Thursdays, 1/18–2/1, 6–8:40 pm  
Daryl Beyers | Manhattan | 183GAR312B  
$189/$209

NEW! REINVENTING GROUNDCOVERS
Move beyond pachysandra and ivy—escape the tyranny of mulch. This course will cover a wide range of unique groundcovers that thrive in shade, in sun, on slopes, or under trees. In addition to providing soil cover and suppressing weeds, they add texture and color to your garden with minimal maintenance. A walking tour in the Garden will showcase ideal plants, which can range from evergreen to deciduous, herbaceous to woody, flowers to foliage.
Saturday, 10/21, 10 am–1 pm  
Renee Marsh | NYBG | 182GAR227A  
Saturday, 10/28, 10:30 am–1:30 pm  
Renee Marsh | New Canaan Nature Center, New Canaan, Conn. | 182GAR227B  
$55/$59

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, 10/21, 10 am–3 pm  
Ann Perkowski | New Canaan Nature Center, New Canaan, Conn. | 182GAR236A  
Saturday, 11/4, 10 am–3 pm  
Ann Perkowski | NYBG | 182GAR236B  
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

INSTRUCTOR BIOS CAN BE FOUND ONLINE AT NYBG.ORG/ADULTED
STONWORK IN THE GARDEN
Stone is an essential landscape component that is indispensable in garden design. Explore the many ways to incorporate stone in your designs, including walls, patios, walkways, and steps. Learn the significance of cairns and stone circles, how to position stones in interesting ways, and how the Japanese classify stones in their famed rock gardens. Please bring lunch.

Thursday, 11/16, 10 am–2:30 pm
Jan Johnsen | NYBG | 182GAR3S1
$99/$109 Certificate Elective

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

Wednesday, 1/17, 6:15–9:15 pm
John Michelotti | Manhattan | 183GAR233A
Saturday, 2/24, 10 am–1 pm
John Michelotti | NYBG | 183GAR233B
$69/$75

NATIVE GRASSES: PROVIDING FALL SPLENDOR
Native grasses are some of the most low maintenance plants in the garden and add a compelling element to landscape design. They come in many heights, textures, and colors, while seed heads and foliage provide fall and winter interest. Discover the full and rich variety of grasses in the Native Plant Garden that can be used as groundcovers, specimen plants, vertical design elements, and also for erosion control. Please dress for the weather.

Saturday, 11/18, 10 am–1 pm
Bill Kolvek | NYBG | 182GAR119
$69/$75

NEW! FRAGRANT INDOOR GARDEN
When winter winds blow cold, bring nature inside with houseplants that provide fragrance and color all year round. Learn the full range of indoor plants with scented flowers and foliage: citrus, jasmines, hoyas, passionflowers, geraniums, orchids, herbs, bulbs, and more! Learn to select the appropriate plant for each growing space. You’ll walk away knowing how to pot, water, fertilize, and source scented plants.

Wednesday, 2/21, 6–9 pm
Jim Freeman | NYBG | 183GAR223
$65/$69

BASIC COLOR THEORY FOR GARDENERS
Learn how to effectively use color in plant combinations. Study the properties of value, hue, and intensity as they relate to choosing specific garden plants. Visual presentations and discussions are used to analyze various color schemes including analogus, sequential, complementary, and monochromatic. Please bring lunch.

Saturday, 2/24, 10 am–2:30 pm
Laura McKillop | NYBG | 183GAR367
$99/$109 Certificate Elective

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 Loechle | Manhattan | 183GAR146
$55/$59

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

Wednesday, 1/17, 6:15–9:15 pm
John Michelotti | Manhattan | 183GAR233A
Saturday, 2/24, 10 am–1 pm
John Michelotti | NYBG | 183GAR233B
$69/$75

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

Thursday, 2/21, 10:30 am–3 pm
Sheri Forster | New Canaan Nature Center, New Canaan, Conn. | 183GAR173A
$79/$85

LANDSCAPING WITH PERENNIALS
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.

Sunday, 2/25, 9 am–4 pm
Michael Ruggiero | NYBG | 183GAR231
$139/$155

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

Thursday, 11/16, 10 am–2:30 pm
Jan Johnsen | NYBG | 182GAR3S1
$99/$109 Certificate Elective

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

Saturday, 10/14, 10 am–3:30 pm
John Capobianco | NYBG | 182GAR912A
Sunday, 10/22, 10 am–3:30 pm
John Capobianco | NYBG | 182GAR912B
$195/$215

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

Sunday, 11/19, 10 am–2:30 pm
John Capobianco | NYBG | 182GAR929
$139/$155

Illustration: ©Asuka Hishiki, Pinus nigra, Black Pine Half-cascade Style Bonsai, oil on paper, The Omiya Bonsai Art Museum, Saitama, Japan
COMPOST: THE KEY TO HEALTHY GARDENS
Soil of poor quality or even toxic soils are the unfortunate starting points for many urban gardeners. The solution is compost. It provides a clean, safe medium for growing food, and supplies the micro-nutrients that plants require to overcome diseases and pests. Learn three methods of composting that will improve soil fertility and structure: hot composting, bokashi (Japanese fermented composting), and sheet mulching.

Monday, 3/12, 6–8 pm
Claudia Joseph | Manhattan | 183GAR251
$39/$45

NEW! WATER GARDEN FEATURES
Whether it’s due to the type of soil near your fountain or excessive moisture by your pond, planting around water features can be tricky. Landscape designer Richard Rosiello shows you how and where top-performing water-loving plants thrive, from irises and Colocasia to Eupatorium cultivars and others.

Thursday, 3/15, 10 am–2:30 pm
Richard Rosiello | NYBG | 183GAR228
$99/$109

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

Sunday, 1/28, 10 am–1 pm
Ryan McCallister | NYBG | 183GAR155
$55/$59

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

2 Wednesdays, 2/21 & 2/28, 6:15–9:15 pm
Annie Novak | Manhattan | 183GAR204
$115/$125

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

Thursday, 3/8, 10:30 am–1:30 pm
Nick Storrs | NYBG | 183GAR280
$169/$185

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

Saturday, 3/3, 10 am–2:30 pm
Colin Wright | NYBG | 183GAR116
$59/$65

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
$39/$45

Get Ready for Spring Vegetable Gardening!
Grow your own veggies and herbs with help from NYBG’s experts. These classes will help you start a vegetable garden, or make the most of the garden you have.
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 Tuesdays, 9/12–10/10, 10:30 am–12:30 pm
Jennifer Bakshi | NYBG | 181GAR360A

5 Thursdays, 9/28–11/12 (no class 10/12), 6:15–8:15 pm
Jennifer Bakshi | Manhattan | 181GAR360B

5 Tuesdays, 1/9–2/6, 11 am–1 pm
Jennifer Bakshi | NYBG | 183GAR360C

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 Mondays, 9/25–10/23 (no class 10/9), 6:15–9:15 pm
Manny Grossman | Manhattan | 181GAR301A

4 Thursdays, 10/5–10/26, 10 am–1 pm
Daryl Beyers | NYBG | 182GAR301B

4 Tuesdays, 1/9–1/30, 6:15–9:15 pm
Manny Grossman | Manhattan | 183GAR301C

4 Fridays, 2/2–2/23, 10 am–1 pm
Daryl Beyers | NYBG | 183GAR301D

4 Tuesdays, 2/6–2/27, 6:15–9:15 pm
Manny Grossman | Manhattan | 183GAR301E

4 Saturdays, 3/10–3/17 (no class 3/3), 10 am–1 pm
Michael Ruggiero | NYBG | 183GAR301F

$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

5 Tuesdays, 10/17–11/14, 10:30 am–1 pm
Sheri Forster | New Canaan Nature Center, New Canaan, Conn. | 182GAR342A

5 Wednesdays, 10/18–11/15, 10:30 am–1 pm
Sheri Forster | NYBG | 182GAR342B

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

$285/$315 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

4 Saturdays, 10/14–11/4, 10 am–3 pm
Brad Roeller | NYBG | 182GAR440

$445/$489 Certificate Requirement

SOIL SCIENCE FOR GARDENERS

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

4 Wednesdays, 11/8–12/6 (no class 11/22), 6:15–9:15 pm
Manny Grossman | Manhattan | 182GAR302A

4 Thursdays, 1/11–2/1, 10 am–1 pm
Manny Grossman | NYBG | 183GAR302B

4 Thursdays, 2/15–3/8, 6:15–9:15 pm
Manny Grossman | Manhattan | 183GAR302C

$285/$315 Certificate Requirement

VEGETABLE GARDENING

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

4 Tuesdays, 2/27–3/20, 6:15–9:15 pm
Nick Storrs | NYBG | 183GAR431

$265/$289 Certificate Requirement

DON’T MISS!

Carnegie Lecture with Hermannshof Director Cassian Schmidt
Wednesday, Oct. 25 (see page 44)

Revitalizing Sissinghurst with Troy Scott Smith
Wednesday, Jan. 31 (see page 47)
All About Containers

OCTOBER 28

**Midtown Education Center, Manhattan**

Plants in pots can turn an ordinary deck, rooftop, terrace or front porch, into a bountiful gardening space filled with foliage and flowers. Autumn brings new opportunities—and challenges—for every container gardener, whatever their experience level. Learn which plants are ideal for containers, how to maintain them, and where to easily source the best supplies.

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<thead>
<tr>
<th>Time</th>
<th>Section</th>
<th>Title</th>
<th>Speaker</th>
<th>CLP/Section Code</th>
<th>Registration Fee</th>
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</thead>
<tbody>
<tr>
<td>10 am–12 pm</td>
<td>CONTAINER GARDENING 101</td>
<td>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!</td>
<td>Daryl Beyers</td>
<td>182GAR200B</td>
<td>$39/$45</td>
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<tr>
<td>12:45–2:45 pm</td>
<td>THE VERY BEST PLANTS FOR POTS</td>
<td>Containers are an unnatural habitat that have fertilizer, water and root restrictions that suit some plants better than others. Find out which plants to avoid (eggplant), which ones work well (Japanese maple), and those that thrive (begonia).</td>
<td>Richard Rosiello</td>
<td>182GAR200C</td>
<td>$39/$45</td>
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<td>3–5 pm</td>
<td>NEW: NEW YORKER’S GUIDE TO GARDENING RESOURCES</td>
<td>Get the inside scoop on finding everything you need to garden in the city without ever leaving the five boroughs, from hoses to roses to decomposers.</td>
<td>Colin Wright</td>
<td>182GAR200D</td>
<td>$39/$45</td>
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**Registration fee for each section: $39/$45**

**All Three Sections:**

Manhattan | 182GAR299A | $99/$109
**Saturday Gardening Workshops at NYBG and New Canaan Nature Center**

**Wake Up Your Garden!**

**FEBRUARY 10 | Watson Education Building, NYBG**

**FEBRUARY 24 | New Canaan Nature Center, Connecticut**

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

**10 am–12 pm**

**SPRING GARDENERS TASK LIST**

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

Daryl Beyers | NYBG | 183GAR225B
Daryl Beyers | NCNC | 183GAR225F

**12:45–2:45 pm**

**SOIL BASICS: GET IT RIGHT!**

If you get your soil right from the start, your garden will explode in lushness. 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.

Manny Grossman | NYBG | 183GAR225C
Richard Rosiello | NCNC | 183GAR225G

**3–5 pm**

**PRUNING: SHAPE-UP FOR SPRING**

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

Michael Ruggiero | NYBG | 183GAR225D
Michael Ruggiero | NCNC | 183GAR225H

Registration fee for each section: $39/$45

All Three Sections:  
NYBG | 183GAR225A | $99/$109  
NCNC | 183GAR225E | $99/$109

**INTRO TO LANDSCAPE DESIGN**

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

3 Tuesdays, 9/12–9/26, 6:15–9:15 pm  
Daryl Beyers | Manhattan | 181LAN100C

3 Mondays, 9/18–10/2, 10 am–1 pm  
Nancy Gerlach-Spriggs | NYBG | 181LAN100D

3 Tuesdays, 10/10–10/24, 10 am–1 pm  
Daryl Beyers | Manhattan | 182LAN100A

3 Saturdays, 10/14–11/4 (no class 10/28), 10 am–1 pm  
Daryl Beyers | Manhattan | 182LAN100B

3 Saturdays, 2/24–3/10, 10 am–1 pm  
Jeffrey Erb | Manhattan | 183LAN100C

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

$185/$205
Family: Magnoliaceae
Species: *Magnolia grandiflora*


*Freda Snavely & Ethel Mitchell* 06 Aug 1973

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

THE CERTIFICATE PROGRAM

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

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

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<tr>
<th>COURSE</th>
<th>CODE</th>
<th>HOURS*</th>
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<tr>
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<tr>
<td>Introduction to Plant Science</td>
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<td>Soil Science II: Chemistry and Nutrition</td>
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<tr>
<td>Horticultural Techniques: Greenhouse Practices</td>
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<tr>
<td>Insect Pests of Landscape Plants**</td>
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<tr>
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<td>TOTAL REQUIRED HOURS</td>
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*Course hours do not include exam hours
**Courses offered in the Spring–Summer Catalog
Courses with a prerequisite before you can register

For professional horticultural organizations, see p. 55.

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

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

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

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<td>Starting a Small Landscaping Business</td>
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<td><strong>TOTAL REQUIRED HOURS</strong></td>
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<td>Tree Climbing for Arborists**</td>
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<td>Landscape Plants: Conifers</td>
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<td>Landscape Plants: Spring Trees and Shrubs**</td>
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<td>Landscape Plants: Summer and Fall Perennials**</td>
<td>HRT 336</td>
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<td>Landscape Plants: Grasses**</td>
<td>HRT 340</td>
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<td>Landscape Plants: Annuals**</td>
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<td>Landscape Plants: Bulbs</td>
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<td>Annual and Perennial Garden Maintenance</td>
<td>HRT 344</td>
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<td>Plants for Landscaping</td>
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<td><strong>TOTAL REQUIRED HOURS</strong></td>
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*Course hours do not include exam hours

Courses with a prerequisite before you can register

For professional horticultural organizations, see p. 55.
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
6 Wednesdays, 12/6–1/24 (no class 12/20 & 12/27), 2–4:40 pm, Exam Monday, 1/29
Michael Lozefski | NYBG | 182HRT332A
7 Thursdays, 1/4–2/15, 2–4:40 pm
George Lozefski | NYBG | 183HRT302
$395/$445

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
3 Saturdays, 9/9–10/14 (no class 9/29, 9/30 & 10/7), 10 am–1 pm
Michael Hagen | NYBG | 181HRT337A
4 Tuesdays, 9/12–10/10 (no class 9/19), 10 am–1 pm
Michael Ruggiero | NYBG | 181HRT337B
$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, 9/27–11/8, 4:30–6:30 pm
Michael Ruggiero | NYBG | 181HRT331A
5 Sundays, 10/15–11/12, 10 am–1 pm
Michael Ruggiero | NYBG | 182HRT331B
$295/$325

LANDSCAPE PLANTS: BREEDLEAVED EVERGREENS TRACK 4
Learn native and non-native broadleaved evergreens; become familiar with their cultural requirements, identification features, and landscape uses. Learn how to incorporate this important group of plants into both naturalistic and formal landscape settings. Major plant groups studied include Ilex, Rhododendron, Buxus, and evergreen groundcovers. Classroom lectures are reinforced with walks on the Garden grounds, rain or shine. Dress for the weather. 
Prerequisite: Introduction to Plant Science
5 Tuesdays, 10/3–10/31, 4:30–6:30 pm
Deanna Curtis | NYBG | 182HRT332A
5 Wednesdays, 10/4–11/8 (no class 10/11), 10 am–12:15 pm
Manny Grossman | NYBG | 182HRT332B
4 Saturdays, 11/18–12/16 (no class 11/25), 10 am–12:15 pm
Vincent Simeone | NYBG | 182HRT332B
$219/$239

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, 9/9–11/4 (no class 9/30 & 10/7), 10 am–12:50 pm
Laura McKillop | NYBG | 181HRT551
7 Wednesdays, 2/21–4/4, 6:15–9:05 pm
Laura McKillop | NYBG | 183HRT551A
$485/$535

PLANTS FOR LANDSCAPING TRACK 4
Examine the use of plants in the landscape with an emphasis on choosing the right plant for the right place, based on site-specific design and maintenance criteria. Learn aspects of special landscape values such as size, texture, color, and flowering and fruiting seasons. Review the trees, shrubs, groundcovers, annuals, and perennials suitable for landscaping in this region. Please dress for the weather and wear comfortable shoes.
6 Tuesdays, 9/26–10/31, 6:15–8:50 pm
Michael Ruggiero | NYBG | 181HRT358D
6 Fridays, 9/29–11/3, 10 am–12:40 pm
Valerie D’Antonio | NYBG | 181HRT358A
6 Wednesdays, 10/11–11/15, 10 am–12:40 pm
Michael Ruggiero | New Canaan Nature Center 182HRT358B
6 Thursdays, 10/12–11/16, 10 am–12:40 pm
Michael Ruggiero | NYBG | 182HRT358C
6 Sundays, 10/15–11/19, 10 am–12:40 pm
Manny Grossman | NYBG | 182HRT358D
6 Saturdays, 3/3–4/14 (no class 3/31), 10 am–12:40 pm
Valerie D’Antonio | NYBG | 183HRT358E
$395/$435

MASTER CLASS WITH CASSIAN SCHMIDT
PERENNIAL DESIGN DECISIONS
A leader in the New Perennial Movement, Schmidt conducts pioneering research into which specific perennial combinations thrive in a given habitat with minimum maintenance. In this special workshop, he compares the aesthetics and maintenance requirements of distinct perennial designs—from monocultural and static to dynamic and diverse. Using the expertise developed through his research and experimental planting combinations, he will help you decide which styles work best in the conditions you encounter most. 
Prerequisite: Introduction to Plant Science or Landscape History
Thursday, 10/26, 10 am–1 pm
Cassian Schmidt | NYBG | 182LAN399
$185/$205

Exam on last class date.

ANDREW CARNEGIE DISTINGUISHED LECTURE
INNOVATION AND THE FUTURE OF PLANTING DESIGN AT HERMANNSHOF
Hermannshof Director Cassian Schmidt shares the history and vision behind the acclaimed botanical garden nestled in the hills of the Rhine Valley.
A succession of spectacular themed plantings—each framing a particular habitat—surrounds the site’s grand 19th-century villa with 2,500 species of perennials and grasses, and 400 species of shrubs and trees. Hermannshof sets a new standard in naturalistic planting design that blends artistic virtuosity and ecological prowess as a display and trial garden and center for plant research and education.
182GAR817 | Member $29/Non-Member $35
(Complimentary for Garden Patrons)
Wednesday, October 25, 6 pm
Sotheby’s, 1334 York Ave, NYC
SUPPORT HAS BEEN PROVIDED BY CARNEGIE CORPORATION OF NEW YORK.
THIS EVENT IS GENEROUSLY HOSTED BY SOTHEBY’S.
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

HT 6 Wednesdays, 9/27–11/8 (no evening class 10/25), 4:30–7:30 pm, and Wednesday, 10/25, 10 am–4 pm, (Rain Date: Thursday, 10/26)
Moebe Weinsein | NYBG | 181HRT311P

$455/$495

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

HT 5 Wednesdays, 10/4–11/1 (no class 10/11), 5–8 pm
David Laswell | NYBG | 182HRT482S

$355/$395

Horticultural Techniques: Greenhouse Practices TRACK 2
This course introduces students to the practical skills required for growing plants in greenhouses with an emphasis on integrated management techniques. Topics include structures and equipment, soils and other growing media, irrigation and fertilization practices, potting and repotting, and cultural practices. Wear work clothes and bring pruning shears to class. Prerequisites: Introduction to Plant Science and Soil Science

HT 6 Thursdays, 10/19–11/30 (no class 11/23), 4:30–7:30 pm
Nick Gersheberg & Marc Hachadourian | NYBG 182HRT312P

$359/$395

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.

HT Tuesday & Wednesday, 1/9 & 1/10, 10 am–4:30 pm
Robert Schilke | NYBG | 183HRT323

$295/$329

Starting a Small Landscaping Business TRACK 2
Discover the details of making a landscaping business work. Explore the type of business to create: design, installation, construction, maintenance, estimating or some combination. Learn about legal requirements, advertising, customer relations, and human resources. Discuss the monetary aspects: start-up costs, operating budget, tracking costs, and writing contracts. This course is a must for those who want to start their own business. Please bring lunch.

HT 5 Fridays, 1/12–2/9, 10 am–1:20 pm
Myra Marocci | NYBG | 183HRT349

$329/$369

Illustration: ©Lizzie Sanders, Acer griseum, Paperbark Maple (detail), watercolor on paper, Royal Botanic Gardens, Kew, UK
PLANT PROPAGATION II: APPLICATIONS

TRACK 1
Through lectures, laboratories, and field trips, learn how to work with plants that are difficult to propagate by seed or cuttings. Subjects include advanced seed propagation and techniques of grafting, budding, and micro-propagation. Learn about tissue culture at the Garden’s Pfizer Laboratory, and tour a retail nursery for a hands-on grafting project that you can take home.

Prerequisite: Plant Propagation I

4 Mondays, 1/22–2/19, 5–8 pm, Plus an all-day field trip TBA, 8 am–4 pm
Mobee Weinstein | NYBG | 183HRT412S
$395/$435

4 Tuesdays, 2/20–3/6, 4:30–6:30 pm
Mobee Weinstein | NYBG | 183HRT356S
$395/$435

MATHEMATICS FOR HORTICULTURISTS

TRACK 2
This course is designed for horticulturists who maintain or direct the maintenance of outdoor landscapes. We’ll review methods of calculating areas, application rates for fertilizers, and amounts of soil amendments during the first session, and analyze a set of homework problems during the second session.

3 Tuesdays, 2/20–3/6, 4:30–6:30 pm
Mobee Weinstein | NYBG | 183HRT356S
$149/$165

PRUNING PRINCIPLES AND PRACTICES

TRACKS 2 & 3
Through course study and hands-on pruning, you will learn the best tools, techniques, and timing to use when you prune to help shrubs, conifers, broadleaves, evergreens, and deciduous plants thrive. Explore how woody plant structure and physiology influence pruning. You’ll learn how to create and maintain hedges and become familiar with authentic pollarding techniques. Come dressed for fieldwork, and bring bypass pruners if you have them.

Prerequisite: Introduction to Plant Science

6 Thursdays, 10/26–12/7, no class 11/23, 10 am–1 pm
Bill Logan | NYBG | 182HRT321A
$195/$215

6 Wednesdays, 11/1–12/13, no class 11/22, 2–5 pm
Bill Logan | NYBG | 182HRT321B
$195/$215

6 Tuesdays, 11/7–12/12, 10 am–1 pm
Bill Logan | NYBG | 182HRT321C
$195/$215

6 Fridays, 1/19–2/23, 10 am–1 pm
Bill Logan | NYBG | 183HRT321P
$195/$215

6 Saturdays, 1/27–3/10, no class 2/17, 1–4 pm
Samuel Bishop | NYBG | 183HRT321E
$385/$425

EXAM ON LAST CLASS DATE.

TREE MANAGEMENT

TRACKS 2 & 3
Explore a holistic approach to keeping trees healthy and vigorous. Topics include planting and transplanting, pruning, fertilization, root system management, common problems, tree defenses, and lightning protection. Samples of tree problems, supplies, and tools are exhibited.

Prerequisite: Planting Principles and Practices and Soil Science II

7 Wednesdays, 1/3–2/14, & Monday, 1/8, 6–8 pm
Wayne Cahilly | NYBG | 183HRT422S
$335/$369

WINTER TREE IDENTIFICATION

TRACK 3
Learn the basic techniques of winter tree identification using dormant-season characteristics. Buds, bark, fruit, and growth habits on deciduous plants as well as unique aspects of conifers are taught. Specialized techniques and tools of the trade are discussed. Dress for the weather.

Prerequisite: Introduction to Plant Science

5 Thursdays, 1/4–2/1, 1–3 pm
Bill Logan | NYBG | 183HRT440
$295/$325

CHAIRCUTS: USE, SAFETY, AND MAINTENANCE

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

Sunday, 2/4, 9 am–3:30 pm
Travis Wolf | NYBG | 183HRT308
$145/$159

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 Mondays, 2/5–3/19, no class 2/19, 12–3 pm
Tam Nguyen | NYBG | 183HRT480S
$355/$395

6 Wednesdays, 2/7–3/14, 12–3 pm
Tam Nguyen | NYBG | 183HRT480P
$355/$395

CERTIFICATION EXAMS

30-HOUR PREPARATION FOR PESTICIDE APPLICATOR CERTIFICATION EXAMINATION

Prepare for the Core (Basic) and Category 3 (Ornamentals and Turf) exams that New York State Department of Environmental Conservation require of all pesticide applicators. We’ll cover the handling, use, storage, and application of pesticides; safety and environmental considerations; and insect and disease problems. You’ll need to purchase several manuals. You must have either three years of work experience or at least 30 hours of class instruction to be eligible to take these exams. DEC CEUs available.

4 Tuesdays, 9/28–10/19, 9:15–8:45 pm
Don Gabel | NYBG | 181HRT357P
$715/$785

ISA ARBORIST CERTIFICATION EXAM PREPARATION COURSE

Prepare for the International Society of Arboriculture (ISA) Certified Arborist exam by reviewing each chapter in the ISA Arborists’ Certification Study Guide. Participants are strongly advised to read the study guide in advance; copies are available for purchase at NYBG Shop. Please bring lunch. Approved for CEUs.

Saturday, 11/4, 9 am–5:45 pm
Julian Picciano & Wayne Cahilly | NYBG | 182HRT150
$189/Non-Member $209

ISA ARBORIST CERTIFICATION EXAM

To register for the ISA exam, file an application and pay exam fees to the ISA at least 12 working days in advance of the exam date at isa-arbor.com, or by calling 217.355.9411. No exceptions, no walk-ins.

Saturday, 11/11, 8 am–12 pm | NYBG | 182HRT152

ASHS-CERTIFIED HORTICULTURIST EXAM

The American Society for Horticultural Science (ASHS) offers a national credential validating the knowledge and skills of practitioners in the horticulture industry. The exam assesses performance in 35 tasks in seven major categories of horticultural practice. The application deadline is 1/24/18. Learn more at www.ashs.org.

Saturday, 2/3, 9 am–1 pm | NYBG | 183HRT148

Illustration: ©Ann Hoffenberg, Acer griseum, Paperbark Maple, watercolor on paper, Rutgers Gardens, New Brunswick, NJ
Family: Magnoliaceae
Species: Liriodendron tulipifera


Matthew C. Pace 539 28 May 2010

Scientific specimen in the NYBG collection, C. V. Starr Virtual Herbarium
If you have a passion for plants and helping people, then pursue horticultural therapy and learn how to bring people and the natural environment together for healing purposes. Acquire the therapeutic skills and horticultural techniques needed to serve a broad population of people in need. Enroll in a single class or pursue a Horticultural Therapy Certificate.

THE CERTIFICATE PROGRAM

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

Upon completion of the program, students will:

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

CERTIFICATE REQUIREMENTS

Certificate students must complete 189 course hours (181 required + 8 site visit hours), plus a 100-hour internship. After completing a minimum of six courses, students should contact the Program Coordinator to arrange for their internship. To be considered for graduation on June 3, 2018 all internship documentation must be submitted to the Registration Office by May 11, 2018.

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<td>Horticultural Therapy for Exceptional Youth</td>
<td>THR 402 P</td>
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<td>Horticultural Therapy for Physical Rehabilitation</td>
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<td>Introduction to Plant Science</td>
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<td>Plant Propagation I: Basic Principles</td>
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<td>Horticultural Therapy Program Management</td>
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TOTAL REQUIRED HOURS: 189

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<td>The HSNY’s GreenHouse Program on Rikers Island</td>
<td>THR 537 P</td>
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<td>Cardinal Cooke Health Center</td>
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*Courses offered in the Spring–Summer Catalog
P Courses with a prerequisite before you can register

GET NYBG CERTIFIED

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

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

The University of the State of New York, Regents Research Fund, National College Credit Recommendation Service recognizes the nine Horticultural Therapy courses to be the equivalent of college level instruction. In order to receive one college credit hour per course, a passing grade of C or better and a $45 college credit fee are required for each course. The college credit and transcript will be processed through Excelsior College. For more information, call the Registration Office at 718.817.8747.

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

THE CLASSES

INTRODUCTION TO HORTICULTURAL THERAPY

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

2 Saturdays, 9/16 & 9/23, & 1 Sunday, 10/1, 10 am–3:30 pm
Anne Meore, HTR | NYBG | 181THR301A

3 Wednesdays, 1/3–1/17, 10 am–3:30 pm
Matthew Wichrowski, HTR | NYBG | 183THR301B

2 Saturdays, 1/27 & 2/10, 10 am–3:30 pm, in Manhattan, and
1 Saturday, 2/3, 10 am–3:30 pm, at NYBG
Matthew Wichrowski, HTR | 183THR301C

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

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

HORTICULTURAL THERAPY FOR EXCEPTIONAL YOUTH

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

Prerequisite: Introduction to Horticultural Therapy

4 Wednesdays, 10/4–10/25, 5:30–9:15 pm
Phyllis D’Amico, HTM | NYBG | 182THR402

$389/$429   $45 College Credit Fee (Optional)

HORTICULTURAL THERAPY FOR PHYSICAL REHABILITATION

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

Prerequisite: Introduction to Horticultural Therapy

3 Saturdays, 10/28–11/18 (no class 11/11), 10 am–3:30 pm
Matthew Wichrowski, HTR | NYBG | 182THR403

$389/$429   $45 College Credit Fee (Optional)

“Thanks to the expertise of the outstanding NYBG instructors who are actively working in the profession, I’ve been able to expand 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, Brooklyn Botanic Garden, 2017 Graduate
Horticultural therapy is practiced in a multitude of behavioral health settings, including hospitals, day treatment programs, group homes, and in private practice. Learn the diagnostic criteria for major psychiatric conditions, including anxiety, mood, psychotic, cognitive, and substance abuse disorders. Review actual case studies and create treatment plans utilizing horticulture activities for specific needs. Please bring lunch. 📌 Prerequisite: Introduction to Horticultural Therapy

3 Saturdays, 12/2–12/16, 10 am–3:30 pm
Abby Jaroslow, HTR | NYBG | 182THR401

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

Introduction to Horticultural Therapy

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

4 Wednesdays, 3/7–4/4 (no class 3/21), 6–9 pm, and 1 Saturday, 3/24, NYBG, 10 am–1 pm
Nancy Minich, HTR, RLA | Manhattan | 183THR408

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

Horticultural Therapy Methods and Materials

Evaluate tools, equipment, structures, and techniques used by practitioners 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. Please bring lunch. 📌 Prerequisites: Horticultural Therapy for Physical Rehabilitation (or approval of the Program Coordinator)

3 Saturdays, 1/20–2/3, 10 am–3:30 pm
John Beirne, HTR | NYBG | 183THR404

$389/$429   $45 College Credit Fee (Optional)

Horticultural 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. Please bring lunch. 📌 Prerequisites: Successful completion of Behavioral Health Settings (or approval of the Program Coordinator)

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

$389/$429   $45 College Credit Fee (Optional)

Jardín Design for Special Populations

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

Thursday, 10/5, 6:30 am–1 pm
Hilda Krus, HTR | Off site | 182THR537

$135/$149

The Hort Society of New York’s Greenhouse Program on Rikers Island

The focus of this individualized intensive training is on physical medicine and rehabilitation—history, philosophy, and team functions. Participate in horticulture treatment sessions that deal with patient functioning, treatment goals, and precautions.

Tuesday, 10/31, 8:30 am–1 pm
Matthew Wichrowski, HTR, and staff
Off site | 182THR525

$135/$149

NYU Langone Medical Center, Therapeutic Horticulture Services, Manhattan

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.

Monday, 3/12, 9:30 am–2:30 pm
Donna Arabian, HTR | Off site | 183THR528

$135/$149

Cardinal Cooke Health Center

SITE VISITS

- **Introduction to Horticultural Therapy**
  - Tour some of the organizations practicing Horticultural Therapy in the New York area. Get a close-up look on their day-to-day practices.
  - Hands-on healing and learning through horticulture takes place at HSNY’s GreenHouse program on Rikers Island.
  - Designed and built by inmates 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 student-inmates at the GreenHouse.

- **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 inmates 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 student-inmates at the GreenHouse.

- **NYU Langone Medical Center, Therapeutic Horticulture Services, Manhattan**
  - The focus of this individualized intensive training is on physical medicine and rehabilitation—history, philosophy, and team functions. Participate in horticulture treatment sessions that deal with patient functioning, treatment goals, and precautions.

- **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.
LANDSCAPE DESIGN

Family: Pinaceae
Species: Pinus palustris

Collector's Field Notes: United States, North Carolina, Carteret Co. Between Morehead City and Swansboro, Croatan National Forest, N of Route 24, along Pringle Road. Mixed forest. Tree. 12 m tall, the trunk 22 cm diam. Sample preserved in silica gel at NY.

Daniel Atha    10034    4 Apr 2011

Scientific specimen in the NYBG collection, C. V. Starr Virtual Herbarium
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.

CERTIFICATE REQUIREMENTS

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TOTAL REQUIRED HOURS 349

*Course hours do not include exam hours
**Courses offered in the Spring-Summer Catalog
Courses with a prerequisite before you can register
For professional organizations, see p. 55.

STUDENT INFORMATION

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

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
THE CLASSES

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

3 Tuesdays, 9/12–9/26, 6:15–9:15 pm
Daryl Beyers | Manhattan | 181LAN100C

3 Mondays, 9/18–10/2, 10 am–1 pm
Nancy Gerlach-Spriggs | NYBG | 181LAN100D

3 Tuesdays, 10/10–10/24, 10 am–1 pm
Daryl Beyers | Manhattan | 182LAN100A

3 Saturdays, 10/14–11/4 (no class 10/28), 10 am–1 pm
Daryl Beyers | Manhattan | 182LAN100B

3 Saturdays, 2/24–3/10, 10 am–1 pm
Jeffrey Erb | Manhattan | 183LAN100C

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

$185/$205

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, 9/25, 6:15–8:15 pm
Hanna Packer | Manhattan | 181LAN175A

$59/$65

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

3 Mondays, 1/29–2/12, 6:15–8:15 pm
Jennifer Bakshi | Manhattan | 183GAR366A

3 Wednesdays, 3/7–3/21, 11 am–1 pm
Jennifer Bakshi | NYBG | 183GAR366B

$145/$159 Certificate Elective

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 Mondays, 10/16–12/4, 10 am–1 pm
William Harris Einhorn, RLA | NYBG | 182LAN427A

8 Fridays, 1/19–3/9, 10 am–1 pm
William Harris Einhorn, RLA | NYBG | 183LAN427B

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

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

Friday, 2/16, 10 am–12 pm
Duncan Brine | NYBG | 183LAN226

$59/$65
NEW! THE WILD GARDEN

A rebuke to the rigidly patterned bright flower beds of formal Victorian garden design, William Robinson’s 1870 revolutionary manifesto, The Wild Garden, championed herbaceous borders, untidy edges, and naturalistic drifts of hardy perennial plants, permanently changing garden history. Examine the design principles advocated by Robinson, assess his relevance, and understand his influence in modern gardens, including Piet Oudolf’s High Line and Tom Stuart-Smith’s Broughton Grange.

Fridays, 2/2 & 2/9, 10 am–1 pm
Paula Capps | NYBG | 183LAN391

$135/$149

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 Tuesdays, 9/19–11/14, 6:15–9:15 pm
Mark Bunnell, RLA | Manhattan | 181LAN311A
9 Thursdays, 9/28–11/30 (no class 11/2 & 11/23), 10 am–1 pm
Linda Chisholm | NYBG | 181LAN311B
9 Tuesdays, 1/9–3/6, 10 am–1 pm
Linda Chisholm | NYBG | 183LAN311C
9 Tuesdays, 1/9–3/6, 6:15–9:15 pm
Mark Bunnell, RLA | Manhattan | 183LAN311D

$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 Saturdays, 9/9–10/14, (no class 9/30 & 10/7), 10 am–1 pm
Wayne Cahilly | NYBG | 181LAN301B
4 Sundays, 4/15–5/6, 1:30–4:30 pm
Wayne Cahilly | NYBG | 184LAN301A

$295/$329 Certificate Requirement

Exam on last class date.

Garden Study Tour in Kyoto, Japan

NOVEMBER 10–19, 2018

November is a magical time to visit Japan, with the brilliant color of maple leaves, persimmons hanging to dry from the rafters of old 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. In addition, tour members will meet local artisans who are masters of traditional crafts and enjoy meals of beautifully presented seasonal cuisine.

This trip is open to those who have studied or are currently taking courses in Landscape Design or Horticulture. The estimated cost of the tour is $5,249 per person, including a single room with bath, although the price is not definitive until closer to departure. (Round-trip travel to Kyoto is not included.)

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. 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.

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 Wednesdays, 9/27–11/15, 10 am–1 pm
William Harris Einhorn, RLA | NYBG | 181LAN311A
8 Thursdays, 9/28–11/30 (no class 11/2 & 11/23), 2–5 pm
Gustavo Capparelli | NYBG | 181LAN311B
8 Mondays, 10/16–12/4, 6:15–9:15 pm
Elizabeth Poccia | Manhattan | 182LAN311C
8 Tuesdays, 1/9–2/27, 10 am–1 pm
William Harris Einhorn, RLA | NYBG | 183LAN311D
8 Thursdays, 1/18–3/15 (no class 2/22), 2–5 pm
Gustavo Capparelli | NYBG | 183LAN311E

$595/$655 Certificate Requirement

LANDSCAPE DESIGN I: SITE ANALYSIS AND SCHEMATIC DESIGN

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

8 Thursdays, 11/30–2/1, (no class 12/21 & 12/28), 10 am–1 pm
Nancy Gerlach-Spriggs | NYBG | 182LAN401P
8 Wednesdays, 1/10–2/28, 6:15–9:15 pm
Michelle Lin-Luse | Manhattan | 183LAN401B

$575/$635 Certificate Requirement
SITE MATERIALS AND DETAILS
Learn the basic principles of constructing residential landscape features such as walks, steps, simple decks, garden structures, walls, and benches. Study landscape construction standards, techniques, and commonly used materials, and learn to draft construction details. Prerequisite: Graphics II

8 Mondays, 9/18–11/13 (no class 10/9), 6:15–9:15 pm
Gustavo Capparelli | NYBG | 181LAN422A

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

$575/$635 Certificate Requirement

GRAPHICS II
Build and expand upon your graphic presentation skills to create professional presentations to clients. Trimble SketchUp, a 3D sketching software program, is the focus of this advanced graphics class. Laptop computers with SketchUp are required. Prerequisite: Graphics II

8 Thursdays, 9/14–11/19, (no class 9/21), 10 am–1 pm
William Harris Einhorn, RLA | NYBG | 181LAN417B

8 Thursdays, 9/27–11/15, 6:15–9:15 pm
Francine Douwes Whitney, APLD | Manhattan 181LAN417A

8 Wednesdays, 9/26–11/7, 10 am–1 pm
William Harris Einhorn, RLA | NYBG | 183LAN417B

$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. 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 Thursdays, 9/14–11/9 (no class 9/21), 10 am–1 pm
Nathaniel Harris, RLA | NYBG | 181LAN403B

8 Tuesdays, 1/9–2/27, 2–5 pm
Nathaniel Harris, RLA | NYBG | 183LAN403B

$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. Prerequisites: Landscape Measurement and Graphics II

8 Fridays, 10/13–12/15 (no class 11/24), 10 am–1 pm
William Harris Einhorn, RLA | NYBG | 182LAN421A

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. Prerequisite: Landscape Design III

5 Wednesdays, 1/31–2/28, 10 am–1 pm
Bruce G. Eckerson, PLA | NYBG | 183LAN485

$295/$325 Certificate Requirement

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

4 Mondays, 1/8–2/5 (no class 1/15), 10 am–1 pm
Bruce G. Eckerson, PLA | NYBG | 183LAN380A

4 Mondays, 1/8–2/5 (no class 1/15), 2–5 pm
Bruce G. Eckerson, PLA | NYBG | 183LAN380B

$219/$239 Certificate Requirement

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

11 Mondays, 2/26–5/7, 2–5 pm
Liz Pulver | NYBG | 183LAN520

$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. 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

$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. Prerequisite: Landscape Design III

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

$379/$415 Certificate Requirement
Landscape Design Students & Alumni Series

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

TUESDAYS*, 1–3 PM, AFTER LDSA MEETINGS

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

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

TRANSFORMING PUBLIC SPACES WITH DYNAMIC DESIGNS

Innovative landscape design in public spaces can create both economic and social vibrancy in the community. Award-winning horticulturist and landscape designer Patrick Cullina will share vital lessons learned from The High Line, Bethlehem Steel, and the Rose F. Kennedy Greenway, including how to creatively select native plants that will be beautiful in each season, while being well-suited to a particular site’s functionality and maintenance requirements.

Patrick Cullina heads a Manhattan-based design and consulting business dedicated to the innovative and sensitive integration of plants and materials into a diverse range of projects. Previously, he was the founding VP of Horticulture for The High Line and VP of Horticulture at Brooklyn Botanic Garden.

Tuesday, 10/24, 1–3 pm | NYBG | 182LAN265A

HARNESSING THE RESILIENCE OF NATIVE PLANTS

Having co-evolved with New Yorkers for centuries, our native plants are uniquely suited to thrive in the built environment. Heather Liljengren, a field botanist and seed collector, will discuss the advantages of using species native to your design site’s specific locality, including their ability to succeed in difficult growing conditions and help create sustainable, functioning ecosystems.

Heather Liljengren is the Supervising Seed Collector and Field Taxonomist for the Greenbelt Native Plant Center on Staten Island, a facility of the New York City Department of Parks and Recreation. She collects seeds from wild places in the Tri-State area, and manages the seed banking program that distributes them for ecological restoration projects throughout the city.

Tuesday, 12/12, 1–3 pm | NYBG | 182LAN265C

ELEVATING ORGANIC SHAPES IN THE LANDSCAPE

An expert designer blends shapes and forms—plants, pathways, sculptures, and surroundings, to create an evocative whole, resonant like a painting. Internationally recognized for his stonework, Lew French carefully combines natural materials, from lichen-encrusted granite slabs to weathered driftwood, in ways that seem both ancient and effortless. Draw inspiration from Lew as he discusses how to find proportion, scale, and balance using the organic shapes of found materials.

Lew French, an inductee of the New England Design Hall of Fame, designs and builds rooms, outdoor spaces, fireplaces, and sculptural pieces using natural materials with minimal manipulation. The author of two books, Stone by Design and Sticks and Stones, Lew has been featured on CBS Sunday Morning, HGTV, and NPR, as well as in dozens of publications, including Home and Garden, Architectural Digest, and The New York Times.

Tuesday, 11/14, 1–3 pm | NYBG | 182LAN265B

REVITALIZING Sissinghurst

Long celebrated as a jewel in the National Trust crown, Sissinghurst Castle Garden in Kent, England is currently undergoing a vigorous renewal under the direction of its head gardener, Troy Scott Smith. In this talk, Smith will describe how he is restoring and reimagining Vita Sackville-West’s original creation—recapturing the romance, experimentation, and exuberance that defined her distinctive vision—while accommodating an ever-growing public.

Troy Scott Smith has been the head gardener at Sissinghurst since 2013. Previously, he was head gardener at Bodnant Gardens in Wales for seven years.

*Note: Wednesday, 1/31, 1–3 pm | NYBG | 183LAN265D

DEVELOPING COLLECTIONS FOR MODERN GARDENS

Landscape designers are always on the lookout for new cultivars of beloved classics, such as azaleas, dogwoods, hydrangeas, and magnolias. Curator Deanna Curtis will discuss how NYBG has modernized historic plant collections during recent dynamic renovations, including the Burn Family Lilac Collection and the Judy and Michael Steinhardt Maple Collection. Discover both underutilized and exciting new varieties, along with the latest introductions and regional top performers.

Deanna F. Curtis is Curator of Woody Plants and Landscape Project Manager at NYBG. She develops, documents, and helps manage the historic hardy tree and shrub collections, as well as manages the horticultural aspects of landscape design and construction projects.

Tuesday, 2/20, 1–3 pm | NYBG | 183LAN265E

SEEKING INSPIRATION IN THE JAPANESE GARDEN

Celebrated as havens of tranquility and beauty, Japanese gardens integrate profound spiritual attitudes and cultural values with superb design and refined craftsmanship. Over the centuries, poets, emperors, religious leaders, and aestheticians have created Japan’s finest gardens. Peter Grilli, a leading commentator on Japanese culture, will discuss the Japanese garden as an endlessly enriching source of creativity and cultural inspiration.

Peter Grilli is President Emeritus of the Japan Society of Boston. Earlier in his career, he was a Program Director for the Japan Society (NY) and Director of Columbia University’s Center of Japanese Culture. A prolific author and documentary filmmaker, Peter’s work includes FURO: The Japanese Bath, DREAM WINDOW: Reflections on the Japanese Garden, and Paper Lanterns, while his articles have appeared in The New York Times, Asia Magazine, Japan Quarterly, and The Wall Street Journal.

Tuesday, 3/20, 1–3 pm | NYBG | 183LAN265F
NEW! 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, 9/10 & 9/17, 1–4 pm
Douglas Dubler | NYBG | 181GWP208
$109/$119

GOODBYE DIGITAL CAMERA...HELLO IPHONE!

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

Tuesday, 9/19, 10 am–1 pm
Donald Gambino | NYBG | 181GWP151A

Saturday, 2/10, 10 am–1 pm
Donald Gambino | NYBG | 183GWP151B
$59/$65

CLOSE-UP & MACRO WORKSHOP

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

Wednesday, 10/4, 10 am–4:30 pm
Jeffrey Falk | NYBG | 182GWP928
$109/$119

Family: Ericaceae
Species: Kalmia microphylla

John Muir Jul 1872

Scientific specimen in the NYBG collection, C. V. Starr Virtual Herbarium
NEW! THE ZEN OF BUTTERFLY PHOTOGRAPHY

Careful, almost meditative observation is the key to taking visually stunning field images. As a life-long naturalist and principal author/photographer of *Butterflies of the East Coast*, Rick Cech is the perfect guide to show you how to slow down and pay close attention to what you see.

After reviewing a selection of his gorgeous images and the particular techniques Rick used to achieve them, you will go out on Garden grounds to practice consciously choosing and framing your subject in order to effectively communicate your vision. In the second session, you’ll share your own work, and get Rick’s invaluable, expert feedback. Space is very limited in this hands-on workshop.

Saturday, 9/23, 9:30 am–12:30 pm & Sunday, 10/1, 9:30–11 am | Rick Cech | NYBG | 181GWP165
$165/$179

NEW! NIGHT PHOTOGRAPHY: CAPTURING CHIHULY

Translating the magic of lit sculptures at night into memorable photographs requires foresight and skill. Renowned fashion photographer Douglas Dubler will take you through the ins and outs of capturing that magical glow. Focusing on CHIHULY’s outdoor sculptures *Sapphire Star*, *Red Reeds on Logs*, and *Float Boat*, Douglas will give expert advice on aperture, time exposure, flash, and a variety of camera models and lenses. Space is very limited in this hands-on workshop. Cost of the class includes entrance to CHIHULY Nights. Please bring a tripod. Photographs taken of CHIHULY artworks cannot be published.

Thursday, 10/5 (Rain date: 10/12), 6–9 pm
Douglas Dubler | NYBG | 182GWP216
$125/$139

NEW! 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.

Thursday, 10/12, 2–5 pm
John Maggiotto | NYBG | 182GWP227
$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. We’ll cover the basics of digital photography, the art of seeing as a photographer sees, and how to manage available light regardless of weather or time of day. Each class includes an introductory lecture and demonstration, a field session in the Garden to practice techniques with your own camera, and a review of your work at the end of the day. Dress for the weather, and bring your digital camera, monopod or tripod, and lunch.

3 Saturdays, 10/21–11/18 (no class 11/4 & 11/11), 10 am–2:30 pm
Wayne Cahilly & Meghan Cahilly | NYBG | 182GWP202
$265/$289

NEW! 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, 2/11, 10 am–4:30 pm
Jeffrey Falk | NYBG | 183GWP213
$109/$119
THE CLASSES

Start with Foundations or jump into the six-week Fall Intensive!

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 expert naturalists, 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!

Wednesdays, Thursdays, & Saturdays, 11/29–12/9, 10 am–2 pm
Mike Feller, Nancy Slowik, & Ken Chaya
NYBG | 182NAT301
$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. Document how January’s leafless trees unveil a distinctive winter suite of birds for whom our city is a southern migratory destination, and search the snowfall for tracks that reveal the comings and goings of mammals we seldom glimpse. Prerequisite: Foundations

Wednesdays, Thursdays, & Saturdays, 1/17–1/27, 10 am–2 pm
Nancy Slowik & Ken Chaya | NYBG, Pelham Bay Park, & Central Park | 183NAT307
$535/$589

WATERWAYS
Study the rich variety of plant and animal life found in our riverine and estuary habitats. Offered in Spring-Summer term.

WINTER FIELD TRIPS

PELHAM BAY PARK
Explore the rocky coastline in search of harbor seals basking in the sun, loons, and other wintering waterfowl. Then move into the woods to try to spot the owls “fly out” at dusk. Prerequisite: Foundations

Saturday, 12/16, 2–6 pm
Mike Feller | Pelham Bay Park | 182NAT312A
$85/$95

CENTRAL PARK
Study the birds that winter in New York City with Ken Chaya, including hooded mergansers, bufflehead ducks, and other species (snow geese if we’re lucky!). Prerequisite: Foundations

Saturday, 2/3, 10 am–2 pm
Ken Chaya | Central Park | 183NAT312B
$85/$95

Family: Lecythidaceae
Species: Gustavia augusta

Collectors' Field Notes: French Guiana. Saül and vicinity. Route de Bélizon. Non-flooded moist forest.

Tree, 8 m x 10 cm. Petals white with pink blush abaxially; staminal ring white abaxially, yellow adaxially, most filaments white, some lilac. Fruit immature. Near entrance to Grand Boeuf Mort Trail.


Scientific specimen in the NYBG collection, C. V. Starr Virtual Herbarium
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 NYBG Urban Naturalist Program will equip 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, will use the NYBG’s grounds and select NYC City Parks as living labs to investigate the interrelationships between species and discover how our urban environment sustains those ecosystems.

To become an official NYBG Urban Naturalist, you must complete each of these required classes: Foundations, Woodlands, and Waterways. 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 Naturalists are already utilizing 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.

FALL INTENSIVE

Document seasonal changes while reveling in the brilliant autumnal color in this six-week intensive that includes all three classes required to become a NYBG Urban Naturalist. In Foundations, you’ll use a 10x hand lens, dichotomous keys, and field guides to identify plants and invertebrates, while exploring the most pressing issues facing urban wild spaces today with three of the New York City’s most renowned naturalists.

In Waterways, you’ll study the huge variety of plant and animal life found in our riverine and estuary habitats. Take part in a leaf pack survey of invertebrates found in the Bronx River, and—if nature cooperates—we’ll mark and release monarchs in Brooklyn’s Marine Park, which will be aglow with blue and gold wildflowers and grasses.

Immerse yourself in complex biodiversity in Woodlands. The vivid foliage and waves of songbirds and raptors flying south along the storied Atlantic Flyway provide an unparalleled opportunity for new insights into phenology and its impact on ecosystems.

All week-day classes will take place at NYBG, while Saturday field trips will be in Pelham Bay Park, Marine Park, Van Cortlandt Park, and Inwood Hill Park.

Wednesday, Thursday, & Saturday, 9/13–9/16, 10 am–2 pm
Wednesday, Thursday, & Friday, 9/27–29, 10 am–2 pm
Wednesdays, Thursdays, & Saturdays, 10/11–11/4, 10 am–2 pm
Mike Feller, Nancy Slowik, & Ken Chaya
NYBG & NYC Parks | 181NAT315
$1,275/$1,405

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

Program Coordinator Mike Feller spent 31 years as Chief Naturalist for NYC Parks Natural Resources Group (NRG), where he led a team of 25, supervised the funding, design, and execution of myriad ecological restoration programs, and oversaw NRG’s environmental education programs. Mike spearheaded the creation of the Forever Wild Program that established 51 nature preserves throughout New York City. His photos of urban nature have appeared in many books, magazines, and corporate offices.

QUESTIONS? CONTACT MIKE FELLER AT MFELLER@NYBG.ORG

“Choosing a patch of my own to study was one of the most brilliant aspects of the class. Instead of seeing my patch in Prospect Park as somewhere to go just for recreation, I now see it as a community of plants and animals that I am a part of. And it’s a community that I feel I am now responsible for.”

—Hugo Lilienfeld, 2017 NYBG Urban Naturalist
**WELLNESS**

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

**TAI CHI FOR PEACE OF MIND AND BODY**

This ancient, meditative Chinese exercise teaches relaxation, balance, and self-defense with an emphasis on correct body posture and spinal alignment. Students become relaxed, physically stronger, and ultimately healthier in both mind and body.

- **8 Saturdays, 9/23–12/9 (no class 9/30, 10/7, 11/11, 11/25), 10–11 am**
  Robert Torres | NYBG | 181WEL102A

- **8 Saturdays, 1/20–3/17 (no class 2/17), 10–11 am**
  Robert Torres | NYBG | 183WEL102B

$119/$129

**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, 9/30, 10 am–1 pm**
  Karine Gordineer | Manhattan | 181WEL134A

- **Saturday, 2/10, 10 am–1 pm**
  Karine Gordineer | NYBG | 183WEL134B

$95/$105

**NEW! NATIVE AMERICAN REMEDIES**

Join Karine Gordineer, a herbalist of Algonquin ancestry, in exploring native and naturalized plants long used by Native Americans for their healing powers. See how indigenous approaches differ from Western herbalism. Tour the Native Plant Garden to learn to identify particular species, and prepare for winter wellness by making herbal tea to take home.

- **Saturday, 10/28, 10:30 am–4 pm**
  Karine Gordineer | NYBG | 182WEL133

$129/$139

**NEW! 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 monk Bhante Suddhāsā, trained in both Japanese Zen and in Theravāda meditation, will teach us how to meditate and lead us on a journey of inner exploration: practicing sitting and walking meditation amid the maple trees, conifers, and flowers in the quiet southeastern areas of the Garden.

- **Saturday, 9/23, 10 am–1 pm**
  Bhante Suddhāsā | NYBG | 181WEL145A

- **Tuesday, 10/17, 10 am–1 pm**
  Bhante Suddhāsā | NYBG | 182WEL145B

$55/$59

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**Family:** Paulowniaceae  
**Species:** Paulownia tomentosa  
**Collectors’ Field Notes:**  
United States. Arkansas. Hot Spring Co. NW of Malvern, along county road 171. Secondary roads on rolling hills.  
*Daniel Atch, Sally Gavin  12303  10 Aug 2012*

Scientific specimen in the NYBG collection, C. V. Starr Virtual Herbarium
NEW! GREEN CLEANING
For centuries, people cleaned their homes without the arsenal of toxic chemicals sold today. Rediscover non-toxic solutions to everyday problems and avoid unnecessary “greenwashed” commercial products. Learn the science of grime and see how simple ingredients can be combined for effective and inexpensive cleaning and disinfecting. Keep your home fresh and safe for you, your loved ones, and pets. Mix and take home your own multi-purpose anti-bacterial spray cleaner, made with essential oil, liquid soap, and other ingredients.
Saturday, 10/21, 2–5 pm
Renee Marsh | NYBG | 182WEL137A
Saturday, 1/20, 10 am–1 pm
Renee Marsh | New Canaan Nature Center, New Canaan, Conn. | 183WEL137B
$75/$85

INTRO TO AROMATHERAPY
Here’s where to start if you are interested in healing and restoring yourself with aromatherapy and the use of essential oils. Learn the basics of blending oils into your own skin care products or personalized fragrances for the home. Each student will create a decongestant inhaler and a custom-blend massage/bath oil from therapy-grade essential oils such as lavender, eucalyptus, rosemary, and more.
Thursday, 12/7, 6–9 pm
Ursula Basch | Manhattan | 182WEL121A
Saturday, 1/20, 10 am–1 pm
Ursula Basch | NYBG | 183WEL121B
$95/$105

INTEGRATIVE MEDICINE
Integrative medicine (IM) is a scientific and holistic approach to healing that complements conventional Western medicine with indigenous methods. Drawing on his experience practicing in urban and indigenous communities around the world, board-certified physician Dr. Stephen Dahmer gives an introduction to IM, with practical lessons you can use to achieve a healthier lifestyle.
Thursday, 12/14, 6–7:30 pm
Stephen Dahmer, M.D. | Manhattan | 182WEL125
$35/$39

MEDICAL CANNABIS
Some 26 states have legalized the medical use of marijuana. Proponents tout it as a safe, effective treatment for symptoms of cancer, HIV, MS, Parkinson’s, and other conditions—while opponents see many physical and social risks. Explore the science behind this controversial plant, as Dr. Dahmer takes you through a brief history of the endocannabinoid system, its effects on the brain, its associated risks and disorders, and an overview of medical cannabis—today and in the future—in New York and across the country.
Friday, 1/19, 10 am–11:30 pm
Stephen Dahmer, M.D. | NYBG | 183WEL128A
Wednesday, 2/7, 6–7:30 pm
Stephen Dahmer, M.D. | Manhattan | 183WEL128B
$35/$39

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.
Saturday, 1/27, 10 am–1 pm
Elizabeth Scholl | NYBG | 183WEL143A
Sunday, 2/25, 10 am–1 pm
Elizabeth Scholl | NYBG | 183WEL143B
$109/$119

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!
Sunday, 2/4, 10 am–1 pm
Elizabeth Scholl | NYBG | 183WEL135
$109/$119

Herbal Saturday
October 21, 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.

INTRO TO HERBAL MEDICINE
10:30 am–12 pm
Are you interested in bringing the natural benefits of herbs and herbal remedies into your life? Discover the differences between herbal medicine and homeopathy, the three major branches of herbalism, and the fascinating history of herbal medicine. Learn how to choose and store herbs, how to properly take herbal medicines, and how to use several common herbal remedies.
Ursula Basch | 182WEL130B | $59/$65

HERBAL PREPARATIONS WORKSHOP
12:45–2:15 pm
Learn how to select fresh and dried herbs and turn them into natural teas, decoctions, tinctures, and salves from Ursula Basch, founder of The Herbal Bear School of Botanical Medicine. Your homemade products will be fresher, longer lasting, and more economical than those from the store. Make your own herbal tincture to take home.
Ursula Basch | 182WEL130C | $79/$85

HERBAL TEAS
2:30–4:30 pm
Herbal healing can be as simple as a cup of tea! This informative session covers the medicinal qualities and uses of easy-to-find herbs, and how to combine their roots, leaves, flowers, fruits, and seeds into effective, pleasing blends. Come discover the ancient art and power of this simple daily ritual that promotes balance, and serenity, and blend your own tea to take home.
Karine Gordineer | 182WEL130D | $59/$65

All Three Sections: 182WEL130A | $175/$195

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

GENERAL COURSE INFORMATION

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

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

WORK-STUDY OPPORTUNITIES
For information about work-study opportunities with Adult Education, please call 718.817.8741.

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

Satisfactory Academic Progress Policy:
Student progress is measured by grades for Certificate courses, while Non-Certificate courses are not graded.

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

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

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 adultedgraduation@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 by the New York State Board 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 (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 nofa.org

The New York Botanical Garden & Bronx Community College Associate Degree Program
NYBG and Bronx Community College of The City University of New York offer an Associate Degree program. The first year of the program is offered at BCC where students take academic courses. The second year is spent at NYBG, where students take academic courses and work in horticulture. For more information, contact NYBG at 718.817.8747 or Adjat Adebola at adjat.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**
Sept. 6 | 6 pm | Botanical Drawing III: Focus on Flowers | 10
Sept. 11 | 10 am | Botanical Watercolor for Beginners and Beyond | 8
Sept. 12 | 6 pm | Botanical Drawing I: Methods and Materials | 10
Sept. 18 | 6 pm | Botanical Watercolor I | 10
Sept. 28 | 6 pm | Botanical Drawing for Beginners | 8
Oct. 31 | 6 pm | Botanical Drawing II: Developing Your Skills | 10
Nov. 6 | 10 am | Botanical Watercolor for Beginners and Beyond | 8
Nov. 18 | 10 am | Fall Leaves in Watercolor Workshop | 9
Dec. 4 | 6 pm | Botanical Watercolor II | 10
Jan. 8 | 10 am | Botanical Watercolor for Beginners and Beyond | 8
Jan. 9 | 10 am | Pen and Ink | 10
Jan. 10 | 6 pm | Botanical Drawing I: Methods and Materials | 10
Feb. 1 | 6 pm | Color Pencil | 10
Feb. 24 | 10 am | Plant Morphology for Botanical Artists | 9
Mar. 6 | 6 pm | Botanical Drawing for Beginners | 8
Mar. 7 | 6 pm | Botanical Drawing II: Developing Your Skills | 10
Mar. 12 | 10 am | Botanical Watercolor for Beginners and Beyond | 8

**BOTANY**
Sept. 28 | 6:15 pm | Botanical Latin | 29
Oct. 19 | 6 pm | Medical Botany | 15
Jan. 27 | 10 am | Nature’s Pharmacy | 14
Jan. 29 | 6:15 pm | Botanical Explorers | 14
Mar. 12 | 6:15 pm | Botanical Latin | 29

**CRAFTS**
Oct. 12 | 6:30 pm | Girls’ Night Out: Seasonal Centerpiece | 17
Nov. 8 | 6 pm | Quilled Snowflake Ornaments | 17
Dec. 7 | 6:30 pm | Girls’ Night Out: Seasonal Centerpiece | 17
Feb. 5 | 6:30 pm | Girls’ Night Out: Seasonal Centerpiece | 17
Mar. 17 | 10 am | Mounted Staghorns Ferns | 17

**FLORAL DESIGN**
Sept. 18 | 6 pm | Flower Arranging with Store-Bought Bouquets | 20
Sept. 19 | 6:15 pm | Fundamentals of Form | 22
Sept. 27 | 6:15 pm | Wedding Design I: Ceremony & Reception | 23
Oct. 5 | 6 pm | Basic Armature | 21
Oct. 23 | 6 pm | Cascading Bouquet | 21
Oct. 26 | 11 am | Flower Arranging with Store-Bought Bouquets | 20
Oct. 31 | 6:15 pm | Fundamentals of Style | 22
Nov. 2 | 6:15 pm | Color Theory for Floral Design | 23
Nov. 9 | 11 am | Ikebana: A Comprehensive Approach | 21
Nov. 20 | 6 pm | Flower Arranging with Store-Bought Bouquets | 20
Nov. 27 | 6:15 pm | Practical Planning for Designers | 23
Nov. 29 | 6 pm | Simple and Sleek Floral Design Ideas | 20
Dec. 2 | 10:30 am | Holiday Greens Workshop | 22
Dec. 11 | 11 am | Flower Arranging with Store-Bought Bouquets | 20
Jan. 16 | 10:30 am | Event Planning for the Floral Designer | 23
Jan. 20 | 10:30 am | Wedding Design I: Personals | 22
Jan. 22 | 10:30 am | Fundamentals of Form | 22
Jan. 29 | 10:30 am | Fundamentals of Style | 22
Feb. 8 | 6:15 pm | Flower ID from A to Z | 23
Feb. 20 | 11 am | Flower Arranging with Store-Bought Bouquets | 20
Feb. 21 | 6:15 pm | Color Theory for Floral Design | 23
Feb. 26 | 10:30 am | Compose Arrangement | 21
Feb. 27 | 6 pm | Simple and Sleek Floral Design Ideas | 20
Mar. 3 | 10:30 am | Wedding Design II: Ceremony & Reception | 23
Mar. 6 | 10:30 am | Building Your Brand on Social Media | 21
Mar. 15 | 6 pm | Flower Arranging with Store-Bought Bouquets | 20

**GARDENING**
Sept. 25 | 6:15 pm | Fundamentals of Gardening | 29
Sept. 28 | 6:15 pm | Botanical Latin | 29
Oct. 5 | 6 pm | Put Your Garden to Bed | 26

**GARDENING (CONT.)**
Oct. 28 | 10 am | All About Containers Saturday | 30
Nov. 8 | 6:15 pm | Soil Science for Gardeners | 29
Nov. 18 | 10 am | Apartment Gardener’s Saturday | 30
Jan. 9 | 6:15 pm | Fundamentals of Gardening | 29
Jan. 17 | 6:15 pm | Grow Gourmet Mushrooms Indoors | 27
Jan. 18 | 6 pm | Basic Botany for Gardeners | 26
Feb. 6 | 6:15 pm | Fundamentals of Gardening | 29
Feb. 10 | 10 am | Lessons from Martha’s Farm | 26
Feb. 15 | 6:15 pm | Soil Science for Gardeners | 29
Feb. 21 | 6:15 pm | Rooftop Gardening | 28
Feb. 26 | 6 pm | A Garden Design Primer | 31
Mar. 5 | 6 pm | Vertical Gardens: Vines and Climbers | 27
Mar. 6 | 10:30 am | Perennial Plant Combinations | 27
Mar. 8 | 6:15 pm | Fundamentals of Garden Design | 29
Mar. 16 | 6 pm | Compost: The Key to Healthy Gardens | 28
Mar. 16 | 6:15 pm | Botanical Latin | 29
Mar. 13 | 6 pm | Super Small Space Veggie Gardening | 28
Mar. 24 | 10:30 am | Perennial Plant Combinations | 27

**HORTICULTURAL THERAPY**
Jan. 27 | 10 am | Intro to Horticultural Therapy | 40
Mar. 7 | 6 pm | Garden Design for Special Populations | 41

**HORTICULTURE**
Sept. 9 | 10 am | Introduction to Plant Science | 34
Oct. 24 | 6:15 pm | Introduction to Plant Science | 34
Jan. 8 | 6:15 pm | Introduction to Plant Science | 34
Feb. 3 | 10 am | Introduction to Plant Science | 34

**LANDSCAPE DESIGN**
Sept. 12 | 6:15 pm | Intro to Landscape Design | 44
Sept. 19 | 6:15 pm | Landscape Design History | 45
Sept. 25 | 6:15 pm | City Roof Design | 44
Sept. 27 | 6:15 pm | Graphics III | 46
Oct. 10 | 10 am | Intro to Landscape Design | 44
Oct. 14 | 10 am | Intro to Landscape Design | 44
Oct. 16 | 6:15 pm | Graphics I | 45
Jan. 9 | 6:15 pm | Landscape Design History | 45
Jan. 10 | 6:15 pm | Landscape Design I: Site Analysis and Schematic Design | 45
Jan. 11 | 6:15 pm | Graphics II | 46
Jan. 29 | 6:15 pm | Botanical Explorers | 14
Feb. 24 | 10 am | Intro to Landscape Design | 44
Mar. 7 | 6:15 pm | Landscape Design II: Design Development | 46

**WELLNESS**
Sept. 30 | 10 am | Essential Oil Perfume Workshop | 52
Oct. 21 | 10:30 am | Herbal Saturday | 53
Dec. 7 | 6 pm | Intro to Aromatherapy | 53
Dec. 14 | 6 pm | Integrative Medicine | 53
Feb. 7 | 6 pm | Medical Cannabis | 53

**NEW CANAAN NATURE CENTER**
144 Oenoke Ridge (Rt. 124), New Canaan, Conn.

Oct. 11 | 10 am | Plants for Landscaping | 35
Oct. 17 | 10:30 am | Fundamentals of Garden Design | 29
Oct. 21 | 10 am | Pruning: How, When, and Where | 26
Oct. 28 | 10:30 am | Reinventing Groundcovers | 26
Jan. 20 | 10 am | Green Cleaning | 53
Feb. 1 | 10:30 am | Perennial Plant Combinations | 27
Feb. 24 | 10 am | Wake Up Your Garden! Saturday | 31
Mar. 3 | 10 am | Pruning: How, When, and Where | 26
Mar. 8 | 10 am | Intro to Landscape Design | 44
Mar. 17 | 10 am | Garden Design Workshop | 31
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)
- 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.
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: Juniperus virginiana