

# NYBG

ADULT EDUCATION  
FALL 2017–WINTER 2018



NEW YORK BOTANICAL GARDEN

# 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](http://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](http://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

# Contents

- 2 Landscape Design Portfolios Lecture Series**  
*A Life in Design*
- 3 Winter Lecture Series**  
*The Gardener's Garden*
- 4 A Wilder World: The Plants and Places that Inspired Laura Ingalls Wilder**
- 4 Invasive Species Summit**
- 5 Saving the American Ash Summit**
- 5 What Plants Can Teach Us**  
*Robin Wall Kimmerer*
- 5 Humanities Institute Symposium**  
Peter Wohlleben, author of *The Hidden Life of Trees*
- 7 Botanical Art & Illustration**
- 13 Botany**
- 16 Crafts & DIY**
- 19 Floral Design**
- 25 Gardening**
- 33 Horticulture**
- 39 Horticultural Therapy**
- 43 Landscape Design**
- 48 Photography**
- 50 Urban Naturalist**
- 52 Wellness**
- 54 Academic Policies & Procedures**
- 55 Professional Societies, CEUs, & Academic Programs**
- 56 Classes at Midtown Education Center**
- inside back cover** Registration & General Information

**ABOUT THE COVER:** 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.



# 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.

**3 Mondays, October 16, October 30,  
November 6, 6:30–7:30 pm**

**Scandinavia House, 58 Park Avenue  
at 38th Street, Manhattan**

### 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 been published extensively in professional journals and books.

**October 16 | 182LAN801B**

### ARABELLA LENNOX-BOYD



©Marianne Majerus

#### 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**



©Elizabeth Felicella



©Marianne Majerus



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 GENEROUSLY 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



©William Collinson

### 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."*

©Philippe Cheng

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 [CEUs](#)

FUNDED IN PART BY THE BARBARA CUSHING PALEY FUND.



©Helen Sewell. Used by permission of Harper Collins Publishers. Please note: Little House® is a registered trademark of Harper Collins Publishers, Inc.

## 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*.

182GAR803 | \$25/\$29 CEUs will be provided.

## 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.



### 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.



### 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.



182HRT834 | \$25/\$29 CEUs will be provided.



Partnership for Regional Invasive Species Management



## Saving the American Ash Summit

Friday, October 13, 10 am–12:30 pm | Ross Hall, NYBG

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.



**ASH IN NORTH AMERICAN FOREST ECOSYSTEMS AND THE THREAT OF EMERALD ASH BORER**

**Kathleen Knight, Ph.D.**  
Research Ecologist,  
Northern Research Station,  
US Forest Service



**SUSTAINING TRADITIONS: THE EFFECTS OF EAB ON BLACK ASH BASKETRY**

**Kelly Church**  
Black ash basket weaver,  
Grand Traverse Band Ottawa  
and Chippewa and Gun Lake  
Band



**CONSERVING ASH TREES IN THE NORTHEAST: A MULTI-DISCIPLINARY APPROACH**

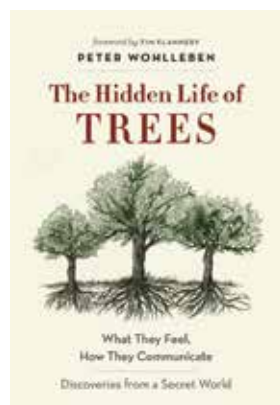
**Daniel Atha**  
Director of Conservation  
Outreach, NYBG



**MONITORING AND MANAGING ASH: A PROTOCOL FOR CONSERVATION AND MITIGATION**

**Jonathan Rosenthal, M.S., J.D.**, Director,  
Ecological Research Institute,  
Kingston, NY

182BOT804 | \$10/\$20 CEUs will be provided.



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.

183BOT805 | \$10/\$20 CEUs will be provided.

Support provided by The Andrew W. Mellon Foundation

## WHAT PLANTS CAN TEACH US A Talk with Robin Wall Kimmerer

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



©Lisa Whitmer

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.

182BOT806 | \$25/\$29 CEUs will be provided.

# BOTANICAL ART & ILLUSTRATION



**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.



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

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

**QUESTIONS? CONTACT PROGRAM COORDINATOR ROBIN JESS AT [BILCOORDINATOR@NYBG.ORG](mailto:BILCOORDINATOR@NYBG.ORG)**

*“I have always loved drawing and the natural world, but wanted more professional guidance before jumping into a career in art. The experienced and accomplished artists-instructors at NYBG have given me invaluable feedback and advice. I’m now a full-time freelance scientific illustrator looking forward to a bright future.”*

— JENNIFER DEUTSCHER, 2017 Graduate



### CERTIFICATE REQUIREMENTS

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

COURSE (in Recommended Order)	CODE	HOURS	PAGE
Botanical Drawing I: Methods and Materials	BIL 301	18	10
Botanical Drawing II: Developing Your Skills	BIL 302	<b>P</b> 18	10
The Basics of Visual Composition (should be completed early)	BIL 421	<b>P</b> 18	10
Botanical Drawing III: Focus on Flowers	BIL 303	<b>P</b> 18	10
Plant Morphology for Botanical Artists	BIL 300	20	9
Botanical Watercolor I	BIL 331	<b>P</b> 24	10
Practical Aspects of Botanical Art	BIL 392	<b>P</b> 10	10
<i>Plus one of the following:</i>			
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	<b>P</b> 18	10
Colored Pencil	BIL 415	<b>P</b> 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.

COURSE	CODE	HOURS	PAGE
Drawing Conifers	BIL 404	10	8
Botanical Oil Painting	BIL 321	15	9
Gourds in Colored Pencil and Watercolor	BIL 345	16	9
Drawing Wild Mushrooms	BIL 343	9	11
Tropical Foliage in the Conservatory	BIL 337	6	11
Researching Your Subject: Old Growth Hemlocks	BIL 360	12	11
Botanical Watercolor II	BIL 332	18	10
Holly and Magnolia	BIL 340	12	11
Hummingbirds	BIL 382	12	11
Fabulous Ferns	BIL 344	15	11
The Secrets of Daffodils	BIL 347	15	11

\*\*Plus a final project that meets Certificate standards

**P** 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 Nemer gut | 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. **P** 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](http://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

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 PEARS

Learn 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 LEAVES

Focus 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 PODS

Explore the craggy textures and desolate beauty of winter seed pods.

Sunday, 1/28, 10 am–3:30 pm  
Carrie Di Costanzo | NYBG | 183BIL223

\$95/\$105

#### MARKET FLOWERS

Study 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

**NEW! BOTANICAL ART FROM THE RENAISSANCE FORWARD**

Delve into botanical art history with NYBG's Stephen Sinon, 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 Sinon | 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


5 Thursdays, 9/14–10/26 (no class 9/21 & 10/12),  
10 am–1:35 pm  
Mary Christiansen | NYBG | 181BIL301B

6 Wednesdays, 1/10–2/14, 10 am–1 pm  
Linda M. Nemergut | NYBG | 183BIL301C

6 Wednesdays, 1/10–2/14, 6–9 pm  
Laura Vogel | Manhattan | 183BIL301D

\$435/\$479 *Certificate Requirement*

**BOTANICAL DRAWING II: DEVELOPING YOUR SKILLS**

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

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

5 Thursdays, 11/9–12/14 (no class 11/23),  
10 am–1:40 pm  
Jeanne Reiner | NYBG | 182BIL302B

6 Wednesdays, 3/7–4/11, 10 am–1 pm  
Linda M. Nemergut | NYBG | 183BIL302C

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

\$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

6 Thursdays, 1/11–2/15, 10 am–1 pm  
Rose Marie James | NYBG | 183BIL303B

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

6 Saturdays, 9/16–11/4 (no class 9/30 & 10/7),  
10 am–1 pm  
Laura Vogel | NYBG | 181BIL415A

6 Thursdays, 2/1–3/8, 6–9 pm  
Jeanne Reiner | Manhattan | 183BIL415B

\$435/\$479 *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 | 181BIL331A

8 Mondays, 2/12–4/9 (no class 2/19), 10 am–1 pm  
Rose Marie James | NYBG | 183BIL331B

\$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, 12/4–1/29 (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*

**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*

**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 spore prints, cuts, and more.

📌 Prerequisite: *Botanical Drawing II*

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**

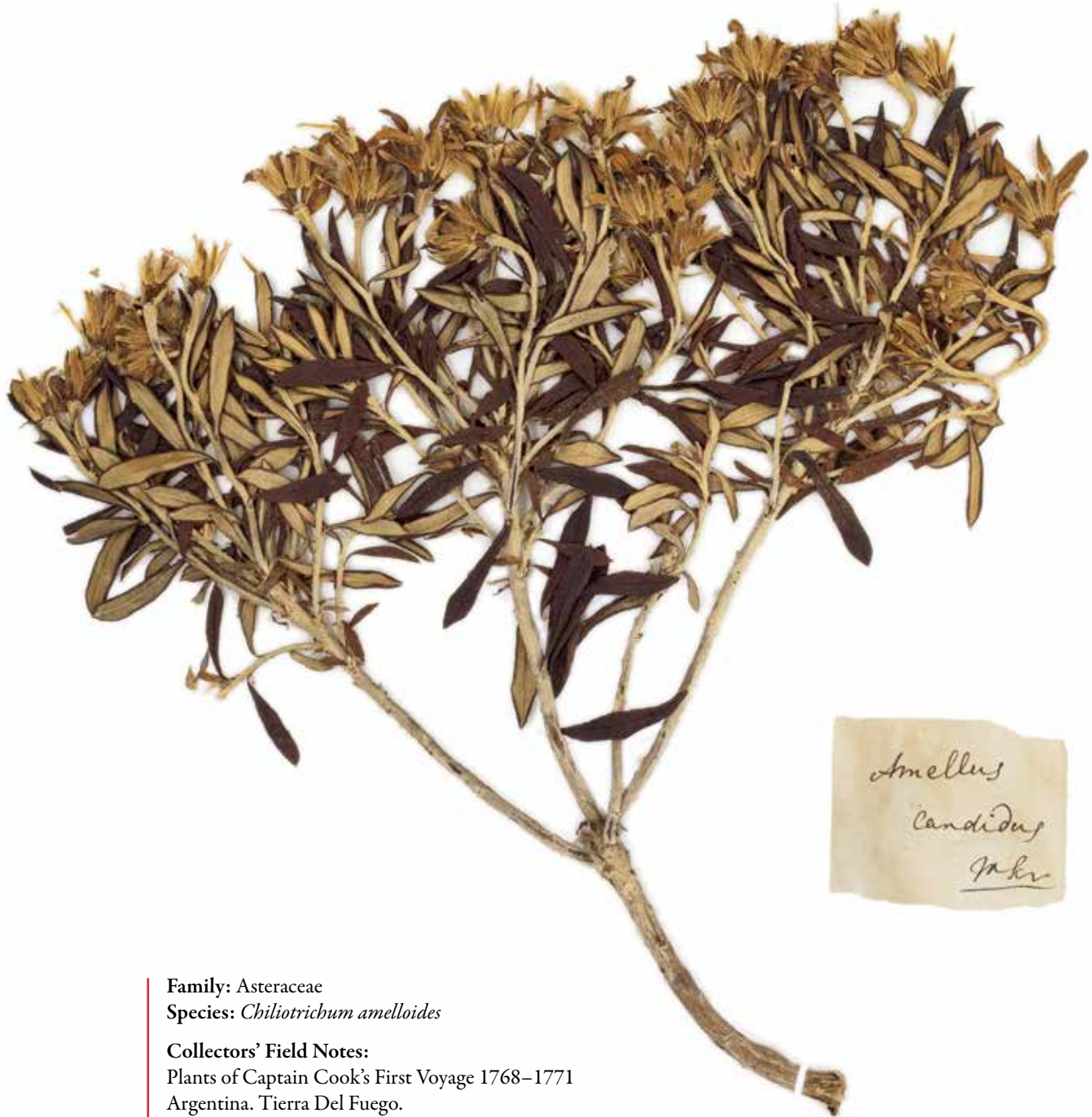
Having a professional online presence is essential to getting the word out about your work. In this hands-on class, you will build a simple website (no coding required!) to showcase your portfolio using Wix.com, a free and easy-to-use platform. We will also showcase free online photo-editing tools. Basic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



# BOTANY



*Amellus*  
*candidus*  
W. L.

**Family:** Asteraceae

**Species:** *Chilotrichum 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

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

### ELECTIVES

COURSE	CODE	HOURS*	PAGE
A Journey Through Time: Early American Botanical Collections	BOT 337	3	15
Pressing Plants for Art & Science	BOT 338	12	15
Systematic Botany	BOT 432 <b>P</b>	21	14
Mushroom Mania	BOT 361	12	14
Nature's Pharmacy	BOT 346	4	14
Recent Botanical Exploration in North America	BOT 339	3	15
Botanical Explorers	GAR 366	6	14
Medical Botany	BOT 470	12	15
Botanical Latin	GAR 360	10	14
The Science of Tree Communication	BOT 385	6	14
How Flowering Plants Reproduce	BOT 384	3	14
The Hidden World of Lichens	BOT 313	3	14
Morphology of Flowering Plants**	BOT 431 <b>P</b>	16	—

\*Course hours do not include exam hours

\*\*Courses offered in the Spring–Summer Catalog

**P** Courses with a prerequisite before you can register



The Program Coordinator, Jamie Boyer, Ph.D., Stavros Niarchos Foundation Vice President for Children's Education, teaches Adult Education courses in plant structure and diversity, and paleobotany. At The New York Botanical Garden, he is responsible for overseeing all aspects of the Garden's youth, teacher, and family education programs. He holds a Ph.D. in Plant Biology from the State University of New York Binghamton, where he studied the evolution and development of ancient land plants.

### QUESTIONS?

CONTACT PROGRAM COORDINATOR  
JAMIE BOYER, PH.D.,  
AT [JBOYER@NYBG.ORG](mailto: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, 9/28–11/2 (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 APERTIFIS AND DIGESTIFS

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

Saturday, 10/28, 2–4 pm  
Tremeur Arbor | NYBG | 182BOT261

\$59/\$65

### 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

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

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

\$75/\$79 *Certificate Elective*

### 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*

### NATURE'S PHARMACY

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

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

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

Sunday, 3/4, 10 am–2:30 pm  
Andrea Candee | 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*

### 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  
Jamie Boyer, Ph.D. | NYBG | 183BOT315S

9 Thursdays, 3/15–5/10 (no class 4/10), 5–8 pm  
Acer VanWallendael, Ph.D. | NYBG | 183BOT315B

\$559/\$615 *Certificate Requirement*

**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.

**P** Prerequisite: *Plant Structure*

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

8 Thursdays, 11/30–2/1 (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 1/23), 5:15–8:15 pm  
Regina Alvarez, Ph.D. | NYBG | 183BOT316P

\$559/\$609 *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); detailed phytochemistry is not discussed.

6 Thursdays, 10/19–11/30 (no class 11/23), 6–8 pm  
Ursula Basch | Manhattan | 182BOT470A

6 Saturdays, 2/3–3/17 (no class 2/17), 2–4 pm  
Ursula Basch | NYBG | 183BOT470B

\$319/\$349 *Certificate Elective*

**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 DIVERSITY**

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

9 Mondays, 10/16–12/11 (no class 11/11), 6:15–9:15 pm  
Jamie Boyer, Ph.D. | NYBG | 182BOT317A

9 Tuesdays, 1/23–3/20 (no class 2/13), 6:15–9:15 pm  
Elle Barnes, Ph.D. | NYBG | 183BOT317B

\$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 | 182BOT375

\$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 flora was 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  
Nicole 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*

# CRAFTS & DIY

*The holidays offer fresh inspiration to get crafty with plants!  
We make it easy—all materials are included!*



**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! 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



Fashion exquisite paper roses.



Weave a traditional black ash basket.



Carve a stamp to make botanical patterns.



Create a quilled snowflake ornament.

©Kate Mathis

**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 | NYBG | 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

# FLORAL DESIGN



**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.

United States. New York. Bronx Co. Grounds of The New York Botanical Garden, at the Mosholu Gate entrance. Cultivated grounds.

*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](mailto: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 LAMPOR, 2017 Graduate



### CERTIFICATE REQUIREMENTS

COURSE	CODE	HOURS	PAGE
Fundamentals of Form	FDN 300	16	22
Fundamentals of Style	FDN 302 <b>P</b>	16	22
Wedding Design I: Personals	FDN 304 <b>P</b>	16	22
Color Theory for Floral Design	FDN 306	8	23
Flower ID from A to Z	FDN 308	8	23
Interior Plantscapes	FDN 310	8	23
Shopping the New York Flower Market	FDN 400 <b>P</b>	4	23
Practical Planning for Designers	FDN 408 <b>P</b>	8	23
Wedding Design II: Ceremony & Reception	FDN 305 <b>P</b>	16	23
Grand-Scale Arrangements	FDN 502 <b>P</b>	8	23
Event Planning for the Floral Designer	FDN 504 <b>P</b>	12	23
Elective courses		32	
<b>TOTAL REQUIRED HOURS</b>		<b>152</b>	

### ELECTIVES

COURSE	CODE	HOURS	PAGE
Wild Sculpture with Emily Thompson	FDN 457 <b>P</b>	3	21
Upstate Dahlias	FDN 377 <b>P</b>	3	21
Basic Armature	FDN 314	3	21
Seasonal Bridal Bouquet	FDN 342	3	21
Cascading Bouquet	FDN 371	3	21
Ikebana: A Comprehensive Approach	FDN 325	9	21
Arranging with Silk Flowers	FDN 405 <b>P</b>	6	21
Compote Arrangement	FDN 349	4	21
Building Your Brand on Social Media	FDN 369	6	21
Holiday Greens Workshop	FDN 335	5	22
Winter Sculptural Arrangements	FDN 361	3	22
Holiday Centerpiece	FDN 378	3	22
Magnolia Leaf Wreath	FDN 355	4	22
Floral Techniques: Folding, Rolling, & Weaving	FDN 411	5	22
A Vase for Every Week	FDN 368 <b>P</b>	4	22
English Weddings	FDN 451B	6	23
English Centerpieces	FDN 451C	6	23
Spring Blossoms: Flemish Style	FDN 379	3	22

\*Courses offered in the Spring-Summer Catalog

**P** Courses with a prerequisite before you can register

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

## 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 | 182FDN203A

Wednesday, 11/29, 6–8 pm  
Robb Moss | Manhattan | 182FDN203B

Tuesday, 2/27, 6–8 pm  
Rose G. Edinger, AIFD | Manhattan | 183FDN203C

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

\$49/\$55



**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. **P** 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*

**CASCADING 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

Monday, 3/5, 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. **P** 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*

# The Cutting Edge

## A Floral Design Series

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



### 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. **P** Prerequisite: *Fundamentals of Form*

Raised in Vermont’s Northeast Kingdom, trained as a sculptor, and with a studio in DUMBO and a shop at South Street Seaport, Emily Thompson creates unconventional arrangements that have graced top restaurants and hotels, MoMA and other NYC museums, fashion houses such as Chanel, major design and lifestyle magazines, and the Obama White House.

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

Saturday, 12/2, 10:30 am–4 pm  
Ken Norman, AIFD | Manhattan | 182FDN335B

\$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*



©Bridget Vizoso

## SPRING BLOSSOMS, FLEMISH STYLE

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

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

\$145/\$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 FORM

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

4 Saturdays, 9/9–10/21 (no class 9/23, 9/30, & 10/7),  
10:30 am–3 pm

Yoli LaGuerre, CFD, AIFD | NYBG | 181FDN300D

6 Tuesdays, 9/19–10/24, 6:15–8:55 pm  
Jameel Gilbert | Manhattan | 181FDN300A

4 Wednesdays, 10/11–11/1, 10:30 am–3 pm  
Thomas Cawley | NYBG | 182FDN300B


4 Tuesdays, 1/9–1/30, 10 am–2:30 pm  
Thomas Cawley | NYBG | 183FDN300C

Monday–Thursday, 1/22–1/25, 10:30 am–3 pm  
Jameel Gilbert | Manhattan | 183FDN300D

\$395/\$435 *Certificate Requirement*

### FUNDAMENTALS OF STYLE

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

 Prerequisites: *Fundamentals of Form*

4 Saturdays, 10/28–12/9 (No class 11/4, 11/11,  
& 11/25), 10:30 am–3 pm

Yoli LaGuerre, CFD, AIFD | NYBG | 182FDN302A

6 Tuesdays, 10/31–12/5, 6:15–8:55 pm  
Bridget Vizoso | Manhattan | 182FDN302B

4 Wednesdays, 11/8–12/6 (no class 11/22),  
10:30 am–3 pm

Yoli LaGuerre, CFD, AIFD | NYBG | 182FDN302C


Monday–Thursday, 1/29–2/1, 10:30 am–3 pm  
Jameel Gilbert | Manhattan | 183FDN302D

4 Tuesdays, 2/20–3/13, 10 am–2:30 pm  
Thomas Cawley | NYBG | 183FDN302E

\$395/\$435 *Certificate Requirement*

### WEDDING DESIGN I: PERSONALS

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

 Prerequisite: *Fundamentals of Style*

4 Tuesdays, 9/19–10/17 (no class 10/10),  
10 am–2:30 pm

Bridget Vizoso | NYBG | 181FDN304A

4 Saturdays, 1/20–2/10, 10:30 am–3 pm  
Yoli LaGuerre, CFD, AIFD | Manhattan | 183FDN304B

4 Mondays, 1/22–2/12, 10 am–2:30 pm  
Thomas Cawley | NYBG | 183FDN304C

\$395/\$435 *Certificate Requirement*



**WEDDING DESIGN II: CEREMONY & RECEPTION**

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

**P** Prerequisite: *Wedding Design I*

6 Wednesdays, 9/27–11/8 (no class 10/11),  
6:15–8:55 pm  
Bridget Vizoso | Manhattan | 181FDN305A

4 Mondays, 10/16–11/6, 10 am–2:30 pm  
Thomas Cawley | NYBG | 182FDN305B

4 Saturdays, 3/3–4/7 (no class 3/17 & 3/31),  
10:30 am–3 pm  
Yoli LaGuerra, CFD, AIFD | Manhattan | 183FDN305C

\$395/\$435 *Certificate Requirement*

**SHOPPING THE NEW YORK FLOWER MARKET**

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

Thursday, 9/28, 9 am–1:30 pm  
Rose G. Edinger, AIFD | Off site | 181FDN400A

Monday, 11/13, 9 am–1:30 pm  
Nsombi Woodson | Off site | 182FDN400B

\$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 LaGuerra, CFD, AIFD | NYBG | 182FDN306A

3 Thursdays, 11/2–11/16, 6:15–8:55 pm  
Rose G. Edinger, AIFD | Manhattan | 182FDN306B

2 Saturdays, 1/20 & 1/27, 11 am–3:30 pm  
Julio Jimenez | NYBG | 183FDN306C

3 Wednesdays, 2/21–3/7, 6:15–8:55 pm  
Jameel Gilbert | Manhattan | 183FDN306D

\$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 Sundays, 10/15 & 10/22, 10:30 am–3 pm  
Jameel Gilbert | NYBG | 182FDN308A

3 Thursdays, 2/8–2/22, 6:15–8:55 pm  
Rose G. Edinger, AIFD | Manhattan | 183FDN308B

2 Thursdays, 2/22 & 3/1, 10:30 am–3 pm  
Nancy White | NYBG | 183FDN308C

\$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*

**PRACTICAL PLANNING FOR DESIGNERS**

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

3 Mondays, 11/27–12/11, 6:15–8:55 pm  
Nancy White | Manhattan | 182FDN408A

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

\$195/\$215 *Certificate Requirement*

**EVENT PLANNING FOR THE FLORAL DESIGNER**

In addition to exquisite design, a successful event requires a well-conceived plan. Learn how to write a sales proposal based on cost analysis, finalize the terms of the design contract, and order and organize materials, personnel, and deliveries, all within a specified budget and time line. Learn how to stage decor for large-scale event arrangements, design cocktail receptions, and develop formal and informal tablescape. \$125 materials fee. **P** Prerequisite: *Wedding Design I*

Tuesday–Thursday, 1/16–1/18, 10:30 am–3 pm  
Jameel Gilbert | Manhattan | 183FDN504A

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

\$285/\$315 *Certificate Requirement*

**GRAND-SCALE ARRANGEMENTS**

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

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

\$225/\$249 *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**

# GARDENING



**Family:** Rosaceae

**Species:** *Malus x 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 Atha 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

COURSE	CODE	HOURS	PAGE
Fundamentals of Gardening	GAR 301	12	29
Introduction to Plant Science	HRT 300	16	34
Soil Science for Gardeners	GAR 302	12	29
Gardening with Native Plants**	GAR 315	9	—
Insect Identification and Management**	GAR 320	12	—
Disease Identification and Management**	GAR 324	12	—
Fundamentals of Garden Design	GAR 342 <b>P</b>	12	29
Vegetable Gardening	GAR 431 <b>P</b>	12	29
Complete Garden Care and Maintenance	GAR 440 <b>P</b>	18	29
Pruning Principles and Practices	HRT 321	15	37
Plants for Landscaping	HRT 358	16	35
Plant Propagation I: Basic Principles	HRT 411 <b>P</b>	18	36
<i>Elective GAR or HRT courses</i>		23	
TOTAL REQUIRED HOURS		187	

## ELECTIVES

COURSE	CODE	HOURS	PAGE
Container Gardening**	GAR 327	8	—
Stonework in the Garden	GAR 351	4	27
Botanical Latin	GAR 360	10	29
Botanical Explorers	GAR 366	6	14
Basic Color Theory for Gardeners	GAR 367	4	27
Garden Design Workshop	GAR 317	8	31

\*\*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](mailto: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

### BASIC CANNING

Turn organic cucumbers and spices into a jar of delicious dill pickles using the tried-and-true process great-grandma used. Designed for beginners, and using the classic Ball Jar with separate lid and sealer ring, this class covers the basics—from recipes to food prep to sterilizing. We'll discuss various tips and tricks for canning all kinds of produce and you'll head home filled with canning confidence—and your jar of tasty pickles!

Sunday, 9/24, 10 am–1 pm  
Michael Blakeney | NYBG | 181GAR205

\$95/\$105

### 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, 10/1, 10 am–1 pm  
Michael Blakeney | NYBG | 182GAR238

\$95/\$105

### 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 allées 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

### 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—and 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



**STONEMWORK 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 | 182GAR351

\$99/\$109 *Certificate Elective*

**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 analogous, sequential, complementary, and monochromatic. Please bring lunch.

Saturday, 2/24, 10 am–2:30 pm  
Laura McKillop | NYBG | 183GAR367

\$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

**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, 2/1, 10:30 am–3 pm  
Sheri Forster | New Canaan Nature Center,  
New Canaan, Conn. | 183GAR173A

Wednesday, 2/28, 10:30 am–3 pm  
Richard Rosiello | NYBG | 183GAR173B

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

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

\$79/\$85

**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

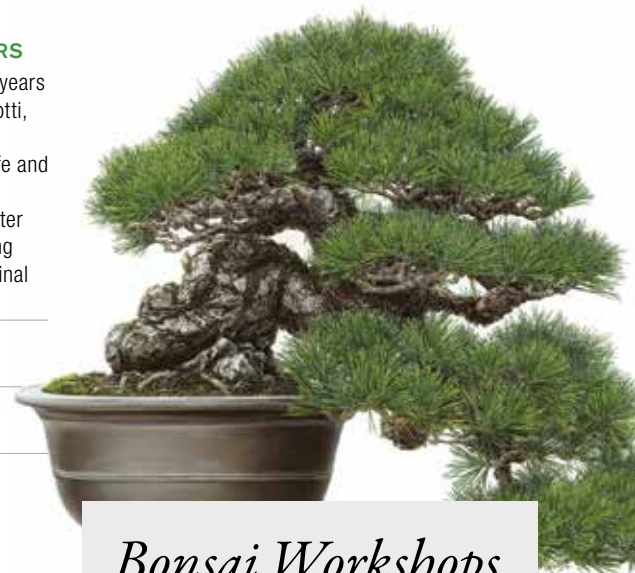
\$139/\$155

**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



## Bonsai Workshops

**BONSAI FOR BEGINNERS WORKSHOP**

Learn the fundamentals for turning ordinary nursery stock into a living work of art. This workshop covers the five major styles of bonsai along with plant and container selection, branch and root pruning, wiring, and potting. Students 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

**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, *bokoshi* (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



## 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.

**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 | 183GAR134

\$55/\$59

**INTENSIVE GROWING TECHNIQUES FOR HOMEGROWN EDIBLES**

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

Saturday, 3/3, 10 am–1 pm  
Colin Wright | NYBG | 183GAR116

\$59/\$65

**RAISED BED GARDENING**

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

Saturday, 3/3, 2–4 pm  
Nick Storrs | NYBG | 183GAR280

\$39/\$45

**SUPER SMALL SPACE VEGGIE GARDENING**

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

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

\$169/\$185



## 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, 9/28–11/2 (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, 3/10–4/7 (no class 3/31), 10 am–1 pm  
Michael Ruggiero | NYBG | 183GAR301F

\$295/\$325 *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)



### 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

4 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*

## Saturday Gardening Workshops in Manhattan



©Hanna Packer

### 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.

10 am–12 pm

#### CONTAINER GARDENING 101

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

Daryl Beyers | 182GAR200B

12:45–2:45 pm

#### THE VERY BEST PLANTS FOR POTS

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).

Richard Rosiello | 182GAR200C

3–5 pm

#### NEW! NEW YORKER'S GUIDE TO GARDENING RESOURCES

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.

Colin Wright | 182GAR200D

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

**All Three Sections:  
Manhattan | 182GAR200A | \$99/\$109**

### Manhattan Apartment Gardener's Saturday

NOVEMBER 18

#### Midtown Education Center, Manhattan

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

10 am–12 pm

#### CREATING AN INDOOR GARDEN

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

Chris Raimondi, CLP | 182GAR299B

12:45–2:45 pm

#### SUCCEED WITH LOW-LIGHT PLANTS

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

Richard Rosiello | 182GAR299C

3–5 pm

#### GROWING HERBS INDOORS

You can have fresh herbs year-round by learning specific techniques for growing them indoors. Whether you want to successfully transplant your outdoor herb garden inside, or start your kitchen herb garden from scratch, this class will teach you the essentials of managing indoor growing conditions for aromatic herbs. You will also learn the best ways to harvest herbs and how to store them for maximum flavor and fragrance.

Nick Storrs | 182GAR299D

**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**

## BASIC LANDSCAPE DESIGN FOR GARDENERS

### A GARDEN DESIGN PRIMER

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

Saturday, 1/20, 10 am–12 pm

Daryl Beyers | NYBG | 183GAR222A

Monday, 2/26, 6–8 pm

Daryl Beyers | Manhattan | 183GAR222B

\$39/\$45

### GARDEN DESIGN WORKSHOP

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

2 Saturdays, 1/27 & 2/3, 10 am–2:30 pm

Daryl Beyers | NYBG | 183GAR317A

2 Saturdays, 3/17 & 3/24, 10 am–2:30 pm

Daryl Beyers | New Canaan Nature Center, New Canaan, Conn. | 183GAR317B

\$225/\$249 *Certificate Elective*

### 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

# HORTICULTURE



**Family:** Magnoliaceae

**Species:** *Magnolia grandiflora*

**Collectors' Field Notes:** United States. Indiana.  
Putnam Co. Greencastle, planted near drive at  
706 Highridge, home of Mrs. Freda Snavely.

*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:

### TRACK 1: PLANT PRODUCTION

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

### TRACK 2: SUSTAINABLE LANDSCAPE MANAGEMENT

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

### TRACK 3: ARBORICULTURE

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

### TRACK 4: SUSTAINABLE GARDEN DESIGN

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

## CERTIFICATE REQUIREMENTS

COURSE	CODE	HOURS*	PAGES
<b>PLANT PRODUCTION—TRACK 1</b>			
Introduction to Plant Science	HRT 300	16	34
Soil Science I: Physical Properties	HRT 301	18	34
Soil Science II: Chemistry and Nutrition	HRT 302	P 16	35
Horticultural Techniques: Greenhouse Practices	HRT 312	P 15	36
Insect Pests of Landscape Plants**	HRT 381	P 18	—
Plant Propagation I: Basic Principles	HRT 411	P 18	36
Plant Propagation II: Applications	HRT 412	P 17	37
Disease Identification & Management	HRT 481	P 18	36
Nursery and Greenhouse Management	HRT 491	P 24	36
<b>TOTAL REQUIRED HOURS</b>		<b>160</b>	

\*Course hours do not include exam hours

\*\*Courses offered in the Spring–Summer Catalog

**P** 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](mailto:HTRCOORDINATOR@NYBG.ORG)**

## CERTIFICATE REQUIREMENTS (cont.)

COURSE	CODE	HOURS*	PAGE
<b>SUSTAINABLE LANDSCAPE MANAGEMENT—TRACK 2</b>			
Introduction to Plant Science	HRT 300	16	34
Soil Science I: Physical Properties	HRT 301	18	34
Soil Science II: Chemistry and Nutrition	HRT 302 <b>P</b>	16	35
Horticultural Techniques: Landscape Gardening	HRT 311 <b>P</b>	21	36
Pruning Principles and Practices	HRT 321 <b>P</b>	15	37
Basic Design and Installation of Irrigation Systems	HRT 323	12	36
Starting a Small Landscaping Business	HRT 349	14	36
Insect Pests of Landscape Plants**	HRT 381 <b>P</b>	18	—
Tree Management	HRT 422 <b>P</b>	14	37
Landscape Management	HRT 443 <b>P</b>	24	36
Disease Identification & Management	HRT 481 <b>P</b>	18	36
Weed Identification & Management	HRT 482 <b>P</b>	18	36
Mathematics for Horticulturists	HRT 356	6	37
TOTAL REQUIRED HOURS		210	
<b>ARBORICULTURE—TRACK 3</b>			
Introduction to Plant Science	HRT 300	16	34
Soil Science I: Physical Properties	HRT 301	18	34
Soil Science II: Chemistry and Nutrition	HRT 302 <b>P</b>	16	35
Tree Climbing for Arborists**	HRT 304	15	—
Chainsaws: Use, Safety, and Maintenance	HRT 308	6	37
Pruning Principles and Practices	HRT 321 <b>P</b>	15	37
Landscape Plants: Fall Trees and Shrubs	HRT 331 <b>P</b>	12	35
Landscape Plants: Conifers	HRT 333 <b>P</b>	12	36
Landscape Plants: Spring Trees and Shrubs**	HRT 334 <b>P</b>	12	—
Insect Pests of Landscape Plants**	HRT 381 <b>P</b>	18	—
Tree Management	HRT 422 <b>P</b>	14	37
Urban Tree Care**	HRT 426 <b>P</b>	12	—
Winter Tree Identification	HRT 440 <b>P</b>	12	37
Disease Identification & Management	HRT 481 <b>P</b>	18	36
TOTAL REQUIRED HOURS		196	
<b>SUSTAINABLE GARDEN DESIGN—TRACK 4</b>			
Introduction to Plant Science	HRT 300	16	34
Soil Science I: Physical Properties	HRT 301	18	34
Landscape Plants: Broadleaved Evergreens	HRT 332 <b>P</b>	9	35
Landscape Plants: Spring Trees and Shrubs**	HRT 334 <b>P</b>	12	—
Landscape Plants: Spring Perennials**	HRT 336 <b>P</b>	9	—
Landscape Plants: Summer and Fall Perennials**	HRT 337 <b>P</b>	9	35
Landscape Plants: Grasses**	HRT 340 <b>P</b>	9	—
Landscape Plants: Annuals**	HRT 341 <b>P</b>	8	—
Landscape Plants: Bulbs	HRT 342 <b>P</b>	12	36
Annual and Perennial Garden Maintenance	HRT 344 <b>P</b>	8	37
Plants for Landscaping	HRT 358	16	35
Tropical Plants**	HRT 361 <b>P</b>	15	—
Sustainable Garden Design	HRT 551 <b>P</b>	20	35
Landscape Design History	LAN 301	24	45
Graphics I	LAN 311	24	45
TOTAL REQUIRED HOURS		209	

\*Course hours do not include exam hours

\*\*Courses offered in the Spring-Summer Catalog

**P** Courses with a prerequisite before you can register

For professional horticultural organizations, see p. 55.

## THE CLASSES

## INTRODUCTION TO PLANT SCIENCE

## ALL TRACKS

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

6 Saturdays, 9/9–10/28 (no class 9/30 & 10/7), 10 am–1:20 pm

Regina Alvarez | Manhattan | 181HRT300E

8 Thursdays, 9/28–11/16 (no class 10/1), 10 am–12:20 pm

Anya Paltseva | NYBG | 181HRT300F

7 Thursdays, 9/28–11/9 (no class 10/1), 2–4:40 pm

Manny Grossman | NYBG | 181HRT300A

7 Sundays, 10/15–12/3 (no class 11/26), 2–4:40 pm

Manny Grossman | NYBG | 182HRT300B

7 Tuesdays, 10/24–12/5 (no class 11/13), 6:15–8:55 pm

Gary Lincoff | Manhattan | 182HRT300C

Mondays, Wednesdays, Fridays, 1/8–1/24 (no class 1/15), 10 am–12:40 pm

Manny Grossman | NYBG | 183HRT300D

3 Mondays and 4 Thursdays, 1/8–2/1 (no class 1/15), 6:15–8:55 pm

Gary Lincoff | Manhattan | 183HRT300E

7 Thursdays, 1/11–2/22 (no class 1/18), 10 am–12:40 pm

Gary Lincoff | NYBG | 183HRT300F

7 Saturdays, 1/27–3/17 (no class 2/17), 10 am–12:40 pm

Manny Grossman | NYBG | 183HRT300G

7 Saturdays, 2/3–3/24 (no class 2/17), 10 am–12:40 pm

Christopher Satch | Manhattan | 183HRT300H

7 Saturdays, 2/3–3/24 (no class 2/17), 10 am–12:40 pm

Christopher Satch | Manhattan | 183HRT300H

\$395/\$435

\$395/\$435

## SOIL SCIENCE I: PHYSICAL PROPERTIES

## ALL TRACKS

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

7 Thursdays, 10/5–11/16 (no class 10/1), 2–5 pm

George Lozefski | NYBG | 182HRT301A

7 Thursdays, 1/25–3/8 (no class 2/1), 6:15–9:15 pm

George Lozefski | NYBG | 183HRT301B

7 Saturdays, 1/27–3/17 (no class 2/17), 10:30 am–1:30 pm

Anya Paltseva | NYBG | 183HRT301C

8 Wednesdays, 1/31–3/21 (no class 2/13), 10 am–12:35 pm

George Lozefski | NYBG | 183HRT301S

8 Thursdays, 3/15–5/3 (no class 4/1), 10 am–12:35 pm

Anya Paltseva | NYBG | 183HRT301D

\$455/\$495

\$455/\$495

**SOIL SCIENCE II: CHEMISTRY AND NUTRITION** TRACKS 1, 2, & 3

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

**P** Prerequisite: *Soil Science I*

6 Wednesdays, 12/6–1/24 (no class 12/20 & 12/27),  
2–4:40 pm, Exam Monday, 1/29  
George Lozefski | NYBG | 182HRT302S

7 Thursdays, 1/4–2/15, 2–4:40 pm  
George Lozefski | NYBG | 183HRT302A

\$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.

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

3 Saturdays, 9/9–10/14 (no class 9/23, 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. **P** 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

5 Sundays, 10/15–11/12, 1:30–4:30 pm  
Michael Ruggiero | NYBG | 182HRT331C

\$295/\$325

**Exam on last class date.**

**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. **P** 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

**LANDSCAPE PLANTS: BROADLEAVED EVERGREENS** TRACK 4

Learn native and non-native broadleaved evergreens; become familiar with their cultural requirements, identification features, and landscape uses. Learn how to incorporate this important group of plants into both naturalistic and formal landscape settings. Major plant groups studied include *Ilex*, *Rhododendron*, *Buxus*, and evergreen groundcovers. Classroom lectures are reinforced with walks on the Garden grounds, rain or shine. Dress for the weather. **P** Prerequisite: *Introduction to Plant Science*

5 Tuesdays, 10/3–10/31, 4:30–6:30 pm  
Deanna Curtis | NYBG | 182HRT332S

5 Wednesdays, 10/4–11/8 (no class 10/11),  
10 am–12:15 pm  
Manny Grossman | NYBG | 182HRT332A

4 Saturdays, 11/18–12/16 (no class 11/25),  
10 am–12:15 pm  
Vincent Simeone | NYBG | 182HRT332B

\$219/\$239

**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.

**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. **P** Prerequisite: *Introduction to Plant Science or Landscape History*

Thursday, 10/26, 10 am–1 pm  
Cassian Schmidt | NYBG | 182LAN399

\$185/\$205

**LANDSCAPE PLANTS: CONIFERS** TRACK 3

Learn the identification, classification, and landscape use of native and non-native conifers that thrive in the northeastern United States. Major plant groups studied include *Chamaecyparis*, *Picea*, and *Pinus*. Gain a working knowledge of the best species and cultivars of conifers for naturalistic and formal landscape designs. Come prepared to go outdoors rain or shine.

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

7 Tuesdays, 11/14–1/9 (no class 12/19 & 12/26), 1:30–3:30 pm

Michael Ruggiero | NYBG | 182HRT333S

7 Wednesdays, 1/31–3/14 (no class 2/4 pm)

Michael Ruggiero | NYBG | 183HRT333B

\$295/\$325

**LANDSCAPE PLANTS: BULBS** TRACK 4

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

7 Thursdays, 3/15–4/26 (no class 4/12 pm)

Marta McDowell | NYBG | 183HRT342A

7 Thursdays, 3/15–4/26 (no class 4/12 pm), 4:30–6:30 pm

Michael Hagen | NYBG | 183HRT342S

\$295/\$325

**DISEASE IDENTIFICATION & MANAGEMENT**

TRACKS 1, 2, & 3

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

7 Wednesdays, 9/6–10/25 (no class 9/20), 4:30–7:30 pm

Trevor Hall | NYBG | 181HRT481S

7 Saturdays, 9/9–11/4 (no class 9/30 & 10/7), 10 am–1 pm

Kevin G. Kenney | NYBG | 181HRT481A

\$475/\$495

**PLANT PROPAGATION I: BASIC PRINCIPLES** TRACK 1

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

7 Mondays, 9/18–11/6 (no class 10/9), 5:45–8:45 pm

Mobee Weinstein | NYBG | 181HRT411S

7 Tuesdays, 9/19–10/31 (no class 10/23), 5:45–8:45 pm

Nick Storrs | NYBG | 181HRT411P

7 Tuesdays, 1/23–3/6 (no class 2/27), 2–5 pm

Michael Ruggiero | NYBG | 183HRT411B

7 Mondays, 1/29–3/19 (no class 2/19), 10:30 am–1:30 pm

Michael Ruggiero | NYBG | 183HRT411C

\$479/\$525

**HORTICULTURAL TECHNIQUES:****LANDSCAPE GARDENING** TRACK 2

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

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)

Mobee Weinstein | NYBG | 181HRT311P

6 Tuesdays, 3/13–4/24 (no class evening on 3/27), 4:30–7:30 pm, and Tuesday, 3/27, 10 am–4 pm, (Rain Date: Wednesday, 3/28)

Mobee Weinstein | NYBG | 183HRT311P

\$455/\$495

**NURSERY & GREENHOUSE MANAGEMENT** TRACK 1

Learn the basic principles and best practices of greenhouse and nursery construction and design, and commercial greenhouse and field plant production. Understand how to manage a commercial growing operation, including site selection, planning and layout, and production methods of greenhouse and nursery crops, both in the field and in containers. The course includes a field trip to area nurseries.

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

8 Tuesdays, 10/3–11/28 (no class 11/7), 4:30–7:05 pm

Plus an all-day field trip Friday, 11/3, 8 am–4 pm

Marc Hachadourian | NYBG | 182HRT491S

\$549/\$605

**LANDSCAPE MANAGEMENT** TRACK 2

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

10 Wednesdays, 10/4–12/13 (no class 11/13), 1:30–4 pm,

1 Tuesday, 11/21, 2–4 pm,

Kurt Morrell | NYBG | 182HRT443S

\$579/\$635

**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.

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

5 Wednesdays, 10/4–11/1 (no class 10/18), 5–8 pm

David Laswell | NYBG | 182HRT482S

\$355/\$395

**HORTICULTURAL TECHNIQUES:****GREENHOUSE PRACTICES** TRACK 1

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

6 Thursdays, 10/19–11/30 (no class 11/23), 4:30–7:30 pm

Nick Gershberg & Marc Hachadourian | NYBG 182HRT312P

6 Thursdays, 2/1–3/8 (no class 2/15), 4:30–7:30 pm

Taylor Johnston & Marc Hachadourian | NYBG 183HRT312S

\$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.

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.

5 Fridays, 1/12–2/9 (no class 1/19), 10 am–1:20 pm

Myra Marsocci | NYBG | 183HRT349

\$329/\$369

**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, 1/22–2/12📅, 5–8 pm, Plus an all-day field trip TBA, 8 am–4 pm

Mobee Weinstein | NYBG | 183HRT412S

4 Tuesdays, 1/23–2/13📅, 5–8 pm, Plus an all-day field trip TBA, 8 am–4 pm

Mobee Weinstein | NYBG | 183HRT412A

\$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 &amp; 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

6 Wednesdays, 11/1–12/13📅 (no class 11/22), 2–5 pm

Bill Logan | NYBG | 182HRT321B

6 Tuesdays, 11/7–12/12📅, 10 am–1 pm

Bill Logan | NYBG | 182HRT321C

6 Fridays, 1/19–2/23📅, 10 am–1 pm

Bill Logan | NYBG | 183HRT321P

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: *Pruning 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

**CHAINSAWS: USE, SAFETY, AND MAINTENANCE** TRACK 3

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

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

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, 9/26–10/17, and 4 Thursdays, 9/28–10/19, 4:15–8:45 pm

Don Gabel | NYBG | 181HRT357P

4 Tuesdays, 1/2–1/23, and

4 Thursdays, 1/4–1/25, 4:15–8:45 pm

Shawn Spencer | NYBG | 183HRT357S

\$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

NYBG or ISA Members \$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](http://www.ashs.org).

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

# HORTICULTURAL THERAPY



**Family:** Magnoliaceae

**Species:** *Liriodendron tulipifera*

**Collector's Field Notes:** United States. New York. Suffolk Co. Huntington Station, at the western edge of a recharge basin directly east of Depot Road. medium sized, straight-trunked tree. Petals yellowish-cream with bright orange splotch on the inside base. Common in the recharge basin. Growing in a non-inundated area at the edge of a recharge basin.

*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.

COURSE	CODE	HOURS	PAGE
Introduction to Horticultural Therapy	THR 301	15	40
Horticultural Therapy for Exceptional Youth	THR 402 <b>P</b>	15	40
Horticultural Therapy for Physical Rehabilitation	THR 403 <b>P</b>	15	40
Horticultural Therapy for the Aging Population	THR 401 <b>P</b>	15	41
Fundamentals of Gardening	GAR 301	12	29
Horticultural Therapy in Behavioral Health Settings	THR 404 <b>P</b>	15	41
Horticultural Therapy Methods and Materials	THR 406 <b>P</b>	15	41
Activities Analysis for Horticultural Therapy	THR 407 <b>P</b>	15	41
Introduction to Plant Science	HRT 300	16	34
Plant Propagation I: Basic Principles	HRT 411 <b>P</b>	18	36
Garden Design for Special Populations	THR 408 <b>P</b>	15	41
Horticultural Therapy Program Management	THR 409 <b>P</b>	15	41
Horticultural Therapy Site Visits (see list below)		8	
<b>TOTAL REQUIRED HOURS</b>		<b>189</b>	

SITE VISITS	CODE	HOURS	PAGE
NYU Langone Medical Center, Therapeutic Horticulture Services	THR 525 <b>P</b>	4	41
The HSNY's GreenHouse Program on Rikers Island	THR 537 <b>P</b>	6	41
Cardinal Cooke Health Center	THR 528 <b>P</b>	5	41

\*Courses offered in the Spring–Summer Catalog

**P** Courses with a prerequisite before you can register



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

### GET NYBG CERTIFIED

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

**QUESTIONS?** CONTACT PROGRAM COORDINATOR PHYLLIS D'AMICO, HTM, AT [THRCOORDINATOR@NYBG.ORG](mailto: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.



*“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

## 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)




### HORTICULTURAL THERAPY FOR THE AGING POPULATION

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


### HORTICULTURAL THERAPY IN BEHAVIORAL HEALTH SETTINGS

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

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

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


### ACTIVITIES ANALYSIS FOR HORTICULTURAL THERAPY

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

3 Saturdays, 2/10–3/3 (no class 2/17),  
10 am–3:30 pm  
Phyllis D'Amico, HTM | NYBG | 183THR407

\$395/\$435 \$45 College Credit Fee (Optional)


### GARDEN DESIGN FOR SPECIAL POPULATIONS

Gardens can be catalysts for learning, health, inclusion, and therapy. Gain the knowledge, expertise, and tools to create, renovate, and evaluate both interior and exterior spaces to ensure effective gardens. Learn the latest research in health care garden design, common design principles, and necessary considerations and accommodations for target populations.  Prerequisites: *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 participants in horticultural therapy activities. Design and construct adaptive tools and assistive devices through problem-solving activities. Expand your plant-selecting skills for specific therapeutic programming needs as you explore the collections and gardens at NYBG. Learn preventive approaches to safety in all horticultural therapy settings. Please bring lunch.  Prerequisites: *Horticultural Therapy for Physical Rehabilitation* (or approval of the Program Coordinator)

3 Wednesdays, 4/18–5/9 (no class 5/2),  
5:30–8:30 pm, and 1 Saturday, 5/5, 10 am–3:30 pm  
Phyllis D'Amico, HTM, and John Beirne, HTR  
NYBG | 184THR406

\$395/\$435 \$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, 5/19–6/9 (no class 5/26),  
10 am–3:30 pm  
Pat Czarnecki, HTR | NYBG | 184THR409

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

## SITE VISITS

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

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

### 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.

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

\$135/\$149

### NYU LANGONE MEDICAL CENTER, THERAPEUTIC HORTICULTURE SERVICES, MANHATTAN

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

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

\$135/\$149

### 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.

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

\$135/\$149

# 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

COURSE	CODE	HOURS*	PAGE
<b>TIER 1 – INTRODUCTORY CLASSES</b>			
Landscape Design History	LAN 301	24	45
Graphics I	LAN 311	24	45
Landscape Measurement	LAN 340 <b>P</b>	12	45
Landscape Plants: Fall Trees and Shrubs	HRT 331 <b>P</b>	12	35
Landscape Plants: Spring Trees and Shrubs**	HRT 334 <b>P</b>	12	—
Plants for Landscaping	HRT 358	16	35
<b>TIER 2</b>			
Landscape Design I: Site Analysis and Schematic Design	LAN 401 <b>P</b>	24	45
Landscape Design II: Design Development	LAN 402 <b>P</b>	24	46
Estimating	LAN 380 <b>P</b>	9	46
Graphics II	LAN 411 <b>P</b>	24	46
Grading	LAN 421 <b>P</b>	24	46
Site Materials and Details	LAN 422 <b>P</b>	24	46
<b>TIER 3</b>			
Drainage	LAN 425 <b>P</b>	12	46
Graphics III	LAN 417 <b>P</b>	24	46
Landscape Design III: Planting Design	LAN 403 <b>P</b>	24	46
Professional Practice for Landscape Designers	LAN 485 <b>P</b>	12	46
Landscape Design IV: Design and Construction	LAN 520 <b>P</b>	33	46
Portfolio and Presentation Skills	LAN 555 <b>P</b>	15	46
<b>TOTAL REQUIRED HOURS</b>		<b>349</b>	

\*Course hours do not include exam hours

\*\*Courses offered in the Spring–Summer Catalog

**P** Courses with a prerequisite before you can register

For professional organizations, see p. 55.

## STUDENT INFORMATION

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



The Program Coordinator, Susan Cohen, FASLA, RLA, is principal of Susan Cohen Landscape Architect in Greenwich, Connecticut. She lectures and writes on landscape topics, and coordinates NYBG's *Landscape Design Portfolios Lecture Series*, now in its 19th year. A graduate of Smith College, Susan earned a Certificate in Landscape Design at NYBG and a BS in Landscape Architecture from City College of New York. She is a member of the Garden's Board of Advisors and has designed several exhibition gardens for NYBG. Her recent book, *The Inspired Landscape*, is published by Timber Press.



**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**

## 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.



## 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

## 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

*“The hands-on nature of NYBG’s program gave me the knowledge, skills, and confidence needed to start my own landscape design firm. Whenever I was looking for inspiration, I would just step outside the classroom onto the grounds of one of the most incredible botanical gardens in the world. It doesn’t get better than that!”*

—HADLEY L. PETERSON, 2017 Graduate



### 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—like horticulture itself—strikes a balance between art and science, Duncan Brine, a principal landscape designer at Garden Large, presents an approach that elicits responses from the site rather than imitating or imposing a traditional concept or style.

Friday, 2/16, 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 | 181LAN301A

9 Thursdays, 9/28–12/7 (no class 10/26 & 11/23),  
10 am–1 pm  
Linda Chisholm | NYBG | 181LAN301B

9 Tuesdays, 1/9–3/6, 10 am–1 pm  
Linda Chisholm | NYBG | 183LAN301C

9 Tuesdays, 1/9–3/6, 6:15–9:15 pm  
Mark Bunnell, RLA | Manhattan | 183LAN301D

\$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 | 181LAN340B

4 Sundays, 4/15–5/6, 1:30–4:30 pm  
Wayne Cahilly | NYBG | 184LAN340A

\$295/\$329 *Certificate Requirement*

 **Exam on last class date.**



Kyoto Gardens-Tenju Temple

©Dreamstime

## *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](mailto: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*



## GRAPHICS II

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

8 Tuesdays, 9/12–10/31, 6:15 pm–9:15 pm  
William Harris Einhorn, RLA | NYBG | 181LAN411C

8 Wednesdays, 10/4–11/29 (no class 11/22),  
2 pm–5 pm  
Gustavo Capparelli | NYBG | 182LAN411D

8 Mondays, 1/8–3/12 (no class 1/15 & 2/19),  
10 am–1 pm  
William Harris Einhorn, RLA | NYBG | 183LAN411A

8 Thursdays, 1/11–3/8 (no class 2/22), 6:15–9:15 pm  
Gustavo Capparelli | NYBG | 183LAN411B

8 Thursdays, 1/11–3/1, 6:15–9:15 pm  
Elizabeth Poccia | Manhattan | 183LAN411C

\$595/\$655 *Certificate Requirement*

## LANDSCAPE DESIGN II: DESIGN DEVELOPMENT

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

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

8 Wednesdays, 9/13–11/8 (no class 9/20),  
10 am–1 pm  
Nancy Gerlach-Spriggs | NYBG | 181LAN402B

8 Wednesdays, 1/10–2/28, 2–5 pm  
Nancy Gerlach-Spriggs | NYBG | 183LAN402A

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

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

\$575/\$635 *Certificate Requirement*

## SITE MATERIALS AND DETAILS

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

8 Mondays, 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 III

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

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

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

8 Wednesdays, 1/10–2/28, 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.

**P** Prerequisites: *Landscape Design II*, *Graphics III*, and *Plants for Landscaping*. Recommended: *Landscape Plants: Fall Trees and Shrubs* and *Landscape Plants: Spring Trees and Shrubs*

8 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. **P** 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. **P** 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. **P** 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. **P** 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. **P** Prerequisite: *Grading*

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

\$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 charettes and individualized projects. Both print and electronic media presentations will be discussed. **P** Prerequisite: *Landscape Design III*

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

\$379/\$415 *Certificate Requirement*



## 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.



Continuing Education Units are available.

#### 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



©Alison Shaw

#### 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

# PHOTOGRAPHY



*Kalmia glauca* Linn.  
Loc. Lake Tenaya, Cal.  
Coll. John Muir, July 1872

**Family:** Ericaceae

**Species:** *Kalmia microphylla*

**Collector's Field Notes:** United States. California.  
Mariposa Co. Lake Tenaya.

*John Muir Jul 1872*

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

## 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



©Douglas Dubler

Dale Chihuly, *Red Reeds on Logs*, 2016, The New York Botanical Garden, installed 2017. © Chihuly Studio

©John Maggiotto



©Jeffrey Falk

### 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.



©Rich Cech

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

# URBAN NATURALIST



**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.

*S. A. Mori, S. Heald, B. Fischer & F. Crozier 24741 14 Nov 1997*

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

## 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

In this teeming metropolis we call home, nature is all around us whether we pause to carefully observe it or not. Amaranth springs through the cracks in our sidewalks; migrating warblers rest in our parks; horseshoe crabs scuttle onto our beaches to breed. As a NYBG Urban Naturalist, you will have a unique opportunity to explore these diverse habitats while discovering the keys that unlock their many secrets.

## THE COURSE OF STUDY

The NYBG Urban Naturalist Program 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.



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](mailto: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



©Lisa Whitmer

## 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



©Lisa Whitmer

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

# WELLNESS

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



**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 Atha, Sally Gavin 12303 10 Aug 2012*

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

## 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 Suddhāso, trained in both Japanese Zen and in Therāvada meditation, will teach us how to meditate and lead us on a journey of inner exploration: practicing sitting and walking meditation amid the maple trees, conifers, and flowers in the quiet southeastern areas of the Garden.

Saturday, 9/23, 10 am–1 pm  
Bhante Suddhāso | NYBG | 181WEL145A

Tuesday, 10/17, 10 am–1 pm  
Bhante Suddhāso | NYBG | 182WEL145B

\$55/\$59



### NEW! GREEN CLEANING

For centuries, people cleaned their homes without the arsenal of toxic chemicals sold today. Rediscover nontoxic 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

## 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.

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

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

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

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

#### Previous Education Credit

A student may qualify for course exemption through:

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

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

#### Attendance

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

#### Student Work

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

#### Certificate Requirements

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

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

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

#### Certificate Graduation Ceremony

The 2018 ceremony will be held on Sunday, June 3. If you expect to complete your Certificate requirements or enroll in all remaining classes by May 25, you must inform the Manager of Student Services in writing at [adultedgraduation@nybg.org](mailto: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 with the New York State Bureau of Proprietary School Supervision (BPSS), a division of the New York State Department of Education. Licensure under the state recognizes the Certificate Programs in Horticulture, Horticultural Therapy, and Landscape Design as high quality and career oriented.

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

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



## CONTINUING EDUCATION UNITS, PROFESSIONAL SOCIETIES, AND ACADEMIC PROGRAMS

### Continuing Education Units (CEUs)

AIA, APLD, and ASLA Members: Don't miss out! Get CEUs for many of our lectures. Events offering CEUs are noted in the catalog or on the individual event listing pages at [nybg.org/adulted](http://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](mailto:reinerj@hotmail.com) or Susan Sapanara [ssapanara@gmail.com](mailto: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](http://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](http://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](http://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 [apl.org](http://apl.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. Applicants 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](http://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](http://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](http://nofa.org)

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

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



## SCHOOL OF PROFESSIONAL HORTICULTURE

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

As a student in the School of Professional Horticulture you:

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

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

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

## MIDTOWN EDUCATION CENTER

20 West 44th Street



DATE	TIME	COURSE TITLE	PAGE
<b>BOTANICAL ART &amp; ILLUSTRATION</b>			
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
<b>BOTANY</b>			
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
<b>CRAFTS</b>			
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
<b>FLORAL DESIGN</b>			
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 II: 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	Compote 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
<b>GARDENING</b>			
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

DATE	TIME	COURSE TITLE	PAGE
<b>GARDENING (CONT.)</b>			
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. 12	6 pm	Compost: The Key to Healthy Gardens	28
Mar. 12	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
<b>HORTICULTURE</b>			
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
<b>HORTICULTURAL THERAPY</b>			
Jan. 27	10 am	Intro to Horticultural Therapy	40
Mar. 7	6 pm	Garden Design for Special Populations	41
<b>LANDSCAPE DESIGN</b>			
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
<b>WELLNESS</b>			
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
<b>NEW CANAAN NATURE CENTER</b>			
<b>144 Oenoke Ridge (Rt. 124), New Canaan, Conn.</b>			
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](http://nybg.org/adulted)*

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

## Confirmations

Registration confirmations will be sent same day via email.

## GENERAL INFORMATION

### Entrance to the Garden on Class Days

You must bring your printed confirmation letter for admission to the Garden, and present it at the Mosholu Gate to gain entrance and free parking.

**Storm Closings** | *Class cancellations due to inclement weather will be rescheduled.*

For closings due to weather, check our website or call 718.817.8747 at the times noted below for a recorded message on the status of your class:

7:30 am for classes beginning at 9–11:45 am

10:30 am for classes beginning at 12–3 pm

1 pm for classes beginning at 3:15–8 pm

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

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

If you must withdraw fewer than ten days before the first class meeting:

No refunds will be granted for course levels 0–299 and 700–999

*A 75% refund minus a \$10 processing fee will be granted for course levels 300–699*

*Please note: Floral Design materials fees will not be refunded fewer than 5 business days before class begins.*

**Holidays** | *NYBG observes the following 10 holidays:*

New Year's Day; Martin Luther King, Jr. Day; Presidents' Day; Memorial Day; Independence Day; Labor Day; Columbus Day; Thanksgiving and the following Friday (Veterans' Day observance); and Christmas

## Accessibility

The New York Botanical Garden is accessible to persons with disabilities. Please ask about special needs accommodations when you register or visit [nybg.org](http://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](http://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](http://nybg.org/library) or contact [libref@nybg.org](mailto: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](http://nybg.org/adulted) for a NYBG class and give the gift of learning.

## REGISTRATION IS EASY!

### Web

Register online at [nybg.org/adulted](http://nybg.org/adulted)


### Phone

718.817.8747 Registration Office  
M–F 9 am–5 pm

### In Person

Drop by the Registration Office in the Watson Education Building, Room 306, or at the Midtown Education Center.

**The Garden** | *Quick and easy to reach*  
Bronx River Parkway (Exit 7W)

 Metro North Railroad to Botanical Garden Station



**Midtown Education Center** | Two blocks from Grand Central Terminal

20 West 44th Street, between 5th and 6th Avenues; 212.302.2054



New York Botanical Garden  
Bronx, New York 10458-5126  
Address Service Requested



## Get Your Nature Fix at NYBG.

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

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

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

NYBG Herbarium specimen: *Juniperus virginiana*



The New York Botanical Garden is located on property owned in full by the City of New York, and its operation is made possible in part by public funds provided through the New York City Department of Cultural Affairs.



Printed on recycled paper