ABOUT THE COVER: The artwork on our cover and throughout the catalog is by artist and Instagram sensation Bridget Beth Collins, who forages natural materials for her charming creations from the sidewalks, meadows, and woods in her Seattle neighborhood. Find out more about her at FloraForager.com or check out her book *The Art of Flora Forager* (Sasquatch Books).
## Calendar

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<td>Martin Luther King Day</td>
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<td><strong>FEBRUARY</strong></td>
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<td><strong>MARCH</strong></td>
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Illustration: ©Asuka Hishiki, Pinus nigra, Black Pine Half-cascade Style Bonsai, oil on paper, The Omiya Bonsai Art Museum, Saitama, Japan
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School Staff

DIRECTOR

The School's operations are managed by Lisa Whitmer, the Director of the School of Horticulture & Landscape Design. Lisa brings a wealth of expertise to The New York Botanical Garden, as she has worked as a teacher and an educational program director for 20 years, fostering students' curiosity and critical thinking in content areas as diverse as video production, history, and robotics for organizations including BRIC Arts | Media | Bklyn, Tribeca Teaches, Adobe Youth Voices, RoboFun, and Aragon High School.

INSTRUCTORS

Regina Alvarez
Regina Alvarez, PhD, is a graduate of the City University of New York with a degree in Urban Forest Ecology. She worked for the Central Park Conservancy for 19 years, beginning as a seasonal gardener and becoming Director of Horticulture and Woodland Management. She now teaches for the CUNY.

Erin Backus
Erin Backus, M.S., CRC, HTR has a Bachelor's degree in Ornamental Horticulture and Plant Science from SUNY Cobleskill, a Master's in Rehabilitation Counseling from SUNY Buffalo and earned her horticultural therapy certification through the Horticultural Therapy Institute in Colorado. Erin currently works at Silver Hill Hospital, where she runs therapeutic horticulture groups for patients with mental health, substance use disorders and co-occurring disorders.

Elle Barnes
Elle Barnes is a Ph.D. candidate in Biological Sciences at Fordham University specializing in Ecology and Systematics. Her research integrates field observation and experimental manipulation of microbial communities in forest ecosystems. She is particularly interested in urban ecosystems and how communities assemble over space and time.

Daryl Beyers
Daryl Beyers, brings over 20 years' experience designing residential gardens and private estates to NYBG. Daryl has gone from the self-described “the guy pushing the wheelbarrow” to the owner of his own design business and an accomplished garden writer. He's a former editor at Fine Gardening, and his articles have been featured in HGTV Magazine and in Martha Stewart Living, where he also served as Contributing Editor.

Samuel Bishop
Sam Bishop is director of urban forestry and education director for Trees New York, and has taught urban forestry and tree and plant care throughout New York City. He is an ISA Board Certified Master Arborist® and an ISA Certified Arborist Municipal Specialist®.

Katie Bronson
Katie Bronson is a Gardener in the Everett Children's Adventure Garden at the New York Botanical Garden.

Wayne Cahilly
Wayne Cahilly is a graduate of the School of Professional Horticulture at the Botanical Garden, where he is the manager of the Lionel Goldfrank III Institutional Mapping Department. He is a member of the American Society of Consulting Arborists, a Certified Arborist, and a Certified Tree Risk Assessor. Wayne's talent for photography is often called upon to photograph landscapes and tree parts in the context of forensic investigations. His photographs are frequently exhibited as evidence in court proceedings, and his garden and flower photographs have been used in several publications.

Gustavo Capparelli
Gustavo Capparelli, BLA, is a landscape designer with a Bachelor in Landscape Architecture from Syracuse University and significant experience in the landscape industry, specifically design-build, estimating, and project management.

Paula Capps
Paula is an entrepreneur whose special interest is the history of medieval, Victorian, and modern gardens. She has studied garden history at Oxford University and has travelled extensively to visit and study gardens in the United States and Europe.

Deirdre Carsto
Deirdre Carsto, BLA, is a New York State-certified nursery and landscape professional with more than 15 years of experience, and co-owner of Carsto Landscapes and Home Improvement in Westchester County.

Deanna Curtis
Deanna Curtis is Associate Curator of Woody Plants at the Garden. While pursuing graduate degrees in both horticulture and landscape architecture at Cornell University, she co-authored Recommended Urban Trees: Site Assessment and Plant Selection for Stress Tolerance with Dr. Nina Bassuk.
Pat Czarnecki
Pat Czarnecki, HTR, MBA, received a Certificate in Horticultural Therapy from the Botanical Garden. She is the owner of GreEn'ergy LLC—horticultural therapy and garden specialists servicing people of all ages and abilities in the NY metro area, and a public speaker on the many benefits of horticultural therapy. Pat is a certified Paraprofessional with specialty in Autism, active Master Gardener through Rutgers University, and past Board member of the Mid-Atlantic Horticultural Therapy Network, Inc. Pat received the distinguished Mid-Atlantic Horticultural Therapy Network, Inc.’s "2013 Outstanding Professional Service Award".

Phyllis D’Amico
Phyllis D’Amico, HTM, is a registered horticultural therapist with the American Horticultural Therapy Association and has worked in the field for over 25 years with children and adults of all ages and abilities. Phyllis has 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 30 years.

Leslie Day

Valerie D’Antonio
Valerie D’Antonio, APLD, holds a Certificate in Landscape Design from the New York Botanical Garden. She is the principal and owner of D’Antonio Landscape Designs, Inc. which specializes in residential garden design, installation, maintenance, garden coaching and consultation.

Steve Dobossy
Steve Dobossy is one of the owners of RR Irrigation, one of New Jersey’s first irrigation companies. The company was instrumental in establishing certification for the design and installation of lawn sprinklers in New Jersey and now services some of the tri-state area’s largest commercial properties.

Bruce Eckerson
Bruce Eckerson, RLA, is a project director with Wesley Stout Associates, responsible for the design and overall project coordination of the firm’s residential projects. He has won numerous awards from the Connecticut ASLA and Connecticut AIA.

William Harris Einhorn
William (Bill) Harris Einhorn, RLA, is a licensed landscape architect in New York, Connecticut, and New Jersey. He is the owner of LDAW Landscape Architecture, PC, specializing in residential design and installation with a focus on pool environments. Prior to establishing LDAW, Mr. Einhorn was the landscape architect at the New York Botanical Garden.

Alexis Gagne
Alexis Gagne is an Associate at MNLA who has practiced throughout the U.S. prior to joining the firm in 2013. She is well versed on navigating a wide range of project types at a variety of scales and currently leads multiple high-profile design projects in New York City. She received a Bachelor of Landscape Architecture from California Polytechnic State University, San Luis Obispo.

Nick Gerschberg
Nick Gerschberg is the coordinator of the Arthur Ross Greenhouse at Barnard College. A former intern at the Brooklyn Botanic Garden, he is trained in plant propagation and bonsai technique and specializes in container horticulture.

Manny Grossman
Manny Grossman is the owner of Rogers Gardening Service, a garden restoration, maintenance, design, and installation firm in Westchester County. He is certified by NYBG in ornamental garden design and is a certified Permaculture designer and instructor. He is also an organic tropical fruit farmer with nine acres under cultivation in Puerto Rico.

Marc Hachadourian
Marc Hachadourian is Manager of the Nolen Greenhouses for Living Collections at the Garden and holds a BS in Plant Science from Cornell University. With over 15 of commercial and specialized horticultural experience, he supervises the care of the botanical collections, including an extensive orchid collection and exhibition plants in the Nolen Greenhouses.

Michael Hagen
Michael Hagen is the NYBG Curator of the Native Plant Garden and the Rock Garden. He previously served as Staff Horticulturist for Stonecrop Gardens in Cold Spring, NY and Garden Manager at Rocky Hills, in Mt. Kisco, a preservation project of the Garden Conservancy.

Trevor Hall
Trevor has been working in the field of Arboriculture since the summer of 1989. He began his career with Bartlett in the summer of 1992. Trevor graduated from the University of Maryland with a degree in Ornamental Horticulture/Urban Forestry. Coming up through the ranks as ground man, climber, and foreman, he took on the duties of Arborist Representative in 2005. He is involved as a judge in the NYS Tree Climbing Competition held annually and was the 2004 winner of the event.

Abby Jaroslow
Abby Jaroslow, HTR, CH manages the Sachs Conservatory at MossRehab. She designed the gardens and developed an extensive and integrated HT program. She collaborates with the treatment teams, serving individuals recovering from Brain and Spinal Cord Injuries, Stroke, Amputation and Complex Neurological Conditions.

Mark Kokinchak
Mark has a degree in Environmental Horticulture from UCONN and earned a state issued Custom Grounds 3A and Arborist 3D licensing. He has over 35 years of experience in landscaping, tree and shrub maintenance, as well as turf management. His emphasis has been on fertility, cultural practices and the control of insects and diseases.
Steve Kutos
Steve Kutos is a graduate student in Biological Sciences - Ecology at Fordham University in the Dr. J.D. Lewis lab. His research focuses on how urbanization and the future effects of climate change might affect resource and nutrient transfer between trees. He works to understand how soil fungal communities function in this nutrient transfer and how they might be altered due to disturbance.

David Laswell
David Laswell is the gardener for the Burn’s Family Lilac Garden & Steinhardt Maple Collection. He has received an AAS from Suny Cobleskill in Recreational Area and Sports Field Management. David also holds a BS from the University of Rhode Island in Urban Horticulture and Turfgrass Management.

Jeanne Lapsker
Jeanne Lapsker, MD, is retired cardiologist and has been a frequent volunteer in Native Plant Garden and Azalea Garden. She also works with Garden staff propagating plants for the Rock Garden and working on the annual Kiku exhibit. She serves on the School’s Board of Advisors and has a Horticulture Certificate in Sustainable Garden Design.

Bill Logan
Bill Logan, a certified arborist and expert in tree assessment, is an award-winning writer about trees, gardens, and natural history. Among his publications is Dirt: The Ecstatic Skin of the Earth. He has taught at UC Berkeley and UC Santa Barbara.

George Lozefski
George Lozefski is an Environmental Scientist for the Environmental Sciences Analytic Center at Brooklyn College, as well as Laboratory Manager for the Urban Soils Institute at Brooklyn College.

Dave McConnell
Dave McConnell, BLA, approaches landscape architecture from a fine arts and traditional architecture background. He has been involved with the design and construction of scores of projects throughout the city, including Concrete Plant Park, portions of the Bronx River Greenway and Hudson River Park Greenway, Yankee Stadium, Washington Square Park, Pelham Parkway Malls, and numerous smaller parks and playgrounds.

Marta McDowell
Marta McDowell holds a Certificate in Landscape Design from the Botanical Garden. She is a writer, lecturer, and garden designer. Her latest books include The World of Laura Ingalls Wilder and All the Presidents’ Gardens, both published by Timber Press. Marta is active in the Chatham Community Garden and is on the board of the NJ Historical Foundation at the Cross Estate in Bernardville.

Laura McKillop
Laura McKillop earned a Certificate in Landscape Design from NYBG. She is a Senior Design Associate with Johnsen Landscapes & Pools.

Anne Meore
Anne Meore, LMSW, HTR, is a Licensed Master Social Worker and a Registered Horticultural Therapist. She earned a Certificate in Horticultural Therapy from the New York Botanical Garden in 2007; a Certificate in Permaculture Design from Oregon State University; a BA in Psychology & Elementary Education from Bethany College; an MA in School Guidance Counseling from New York University; and an MSW from Fordham University. Currently, Anne is the Coordinator of the Garden Ministry at Bon Secours Charity Health System and an instructor at The Edible Academy at NYBG; owns Plantropy, LLC; serves on the Board of Directors of the Mid-Atlantic Horticultural Therapy Association, Inc.; and works in the Horticultural Therapy Greenhouse Program at Bergen Regional Medical Center.

Caitlin Merritt
Caitlin Merritt finds a great source of her enthusiasm and designs from the intersections of aesthetics, history and culture. In addition to teaching at the New York Botanical Garden, Caitlin teaches classes in philosophy, intellectual history and great books at Sacred Heart University in Fairfield, Connecticut. She has earned her bachelor of arts in Philosophy at the College of the Holy Cross and her Master’s at Boston College.

Kurt Morrell
Kurt Morrell is a graduate of the School of Professional Horticulture at the Botanical Garden, where he is Associate Vice President for Landscape Operations.

Leslie Needham
Leslie Needham graduated from NYBG in 2004 and founded her own residential landscape design firm just one year later. Leslie Needham Design, LLC works with clients who value land stewardship and seek strong, creative design approaches to unlock the potential of a landscape. She leads a firm that strives to integrate a client’s goals and sensibilities with the spirit of place to create timeless, yet energetic, landscapes that will mature and evolve over the years.

Anna Paltseva
Anna Paltseva majored in Ecology and Nature Management at Stavropol State University in her native Russia, where she was class president, president of the Scientific Society, and worked in the biogeochemical lab studying a local river and conducting hydro-chemical analyses. Anna is now on track to obtain a doctorate in Earth and Environmental Sciences from Brooklyn College, where she is an adjunct lecturer. In her spare time, she educates people about soil contamination in urban gardens at the Brooklyn Botanical Garden and New York City Housing Authority annual events.
Jay Petrow
Jay Petrow, the owner and principal designer of Petrow Gardens, is a former magazine art director who studied at the New York Botanical Gardens Landscape Design Program. He previously served as Vice President of the Association of Professional Landscape Designers, CT Chapter. In order to further connect his passions and to learn form and composition from the masters, Jay currently studies landscape painting at Silvermine School of Art in New Canaan.

Julian Picciano
Julian Picciano graduated from Purdue University in 2010 with a degree in Forestry. He spent four years as a climber and plant healthcare technician before becoming a climber/pruner and then a forester with the NYC Parks Department.

Liz Pulver
Liz Pulver has practiced landscape architecture since 1997, working with national and international leaders in the industry. Her experiences with West 8, Hollander Design, Thomas Balsley Associates and David Thorne, give her unique insight into the genesis of design at varied scales from residential gardens to greenroofs to campuses and city parks. Her experience in design-build and landscape construction, provides a practical overlay that keeps her work tied to the realities of the site and application. Liz is a registered landscape architect in New York and California and has begun developing a product line for small, urban gardens. She was raised in the Hudson Valley and earned her bachelor's degree in Landscape Architecture from Cornell University.

Michael Ruggiero
Michael Ruggiero is the horticulturist at Matterhorn Nursery in Spring Valley, N.Y. Former Senior Curator of Horticulture and a long-time instructor at the Botanical Garden, he lectures and writes on gardening topics and has authored several books.

Vincent Simeone
Vincent Simeone has worked for many years in public horticulture and is currently the Director at Planting Fields Arboretum State Historic Park. He also leads garden tours all over the world with Allan Armitage. Vincent serves on several committees including the Gold Medal Plant Award Committee and the LINLA Landscape Awards Committee. He has just finished his fifth book on garden sustainability, Grow More with Less.

Shawn Spencer
Shawn Spencer is the Division Director of the Land Restoration Project for the New York City Parks Department, where he has held a variety of roles for the past 21 years. He has also worked with State Parks and Forests in Virginia and was a consulting forester in Vermont. He is a graduate of Virginia Tech, where he majored in Forestry and Wildlife Biology. He has been a Cubmaster with the Boy Scouts of America in the NYC area for the past 15 years, and is also the Councils Outdoor Ethics Advocate and Chair of the Conservation and Outdoor Ethics Committee.

Nicholas Storrs
Nick Storrs, Urban Farm Manager at the Randall’s Island Urban Farm, grew up on a small subsistence farm in New Hampshire. After receiving a B.A. from McGill University he worked in Brazil and Bolivia growing vegetables and coffee, and later apprenticed at the Last Resort Farm in northern Vermont, producing vegetables for local markets and grocery stores. He is a contributor to the Five Borough Farm Project, an initiative of the Design Trust for Public Space, as well as to research conducted by the Northeast Rice Association in conjunction with Cornell University.

Mobee Weinstein
Mobee Weinstein is Foreman of Gardeners at the Botanical Garden, holds a BS in Plant Studies from Lehman College, and is a graduate of the School of Professional Horticulture. She is a NOFA-accredited Organic LandCare Professional and has more than 30 years of experience.

Matthew Wichrowski
Matthew Wichrowski, MSW, HTR, has been practicing horticultural therapy at NYU-Langone Medical Center for 20 years, where he is Senior Horticultural Therapist, and a clinical assistant professor of rehabilitation medicine at the NYU School of Medicine. He lectures nationally and internationally and publishes regularly in a variety of media on the effects of nature on human health and well-being, the focus of his research interests. Recently, he co-authored the book, The Glass Garden: A Therapeutic Oasis in New York City, which won the 2015 AHTA Publication Award.

Blythe Yost
Blythe Yost is the principle and founder of Yost Design, a boutique landscape architecture firm specializing in residential and small commercial projects in the New York metropolitan area. Blythe has been practicing landscape architecture for ten years since graduating from Cornell University in 2005. With a background in horticulture and fine art, she appreciates selecting the perfect materials for each original and creative design challenge.
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

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<td>Soil Science I: Physical Properties</td>
<td>HRT 301</td>
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<td>Horticultural Techniques: Greenhouse Practices</td>
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**Course hours do not include exam hours
**Courses offered in the Spring–Summer Catalog

For professional horticultural organizations, see p. 24.

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 President 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
### SUSTAINABLE LANDSCAPE MANAGEMENT—TRACK 2

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<tr>
<td>Disease Identification &amp; Management</td>
<td>HRT 481</td>
<td>18</td>
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<td>Weed Identification &amp; Management</td>
<td>HRT 482</td>
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<td>Mathematics for Horticulturists</td>
<td>HRT 356</td>
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<td><strong>TOTAL REQUIRED HOURS</strong></td>
<td></td>
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*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. 25.

### ARBORICULTURE—TRACK 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Hours*</th>
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<tr>
<td>Introduction to Plant Science</td>
<td>HRT 300</td>
<td>16</td>
<td>11</td>
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<tr>
<td>Soil Science I: Physical Properties</td>
<td>HRT 301</td>
<td>18</td>
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<td>Soil Science II: Chemistry and Nutrition</td>
<td>HRT 302</td>
<td>18</td>
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<tr>
<td>Tree Climbing for Arborists**</td>
<td>HRT 304</td>
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<td>Chainsaws: Use, Safety, and Maintenance</td>
<td>HRT 308</td>
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<td>Pruning Principles and Practices</td>
<td>HRT 321</td>
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<td>Landscape Plants: Fall Trees and Shrubs</td>
<td>HRT 331</td>
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<td>Landscape Plants: Conifers</td>
<td>HRT 333</td>
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<tr>
<td>Landscape Plants: Spring Trees and Shrubs**</td>
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<td>Insect Pests of Landscape Plants**</td>
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<td>Tree Management</td>
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<td>Urban Tree Care**</td>
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*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. 25.

### SUSTAINABLE GARDEN DESIGN—TRACK 4

<table>
<thead>
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<th>Course</th>
<th>Code</th>
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<td>Soil Science I: Physical Properties</td>
<td>HRT 301</td>
<td>18</td>
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<td>Landscape Plants: Broadleaved Evergreens</td>
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<td>Landscape Plants: Spring Trees and Shrubs**</td>
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<td>Landscape Plants: Summer and Fall Perennials</td>
<td>HRT 337</td>
<td>9</td>
<td>14</td>
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<td>Landscape Plants: Annuals**</td>
<td>HRT 341</td>
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<td>Landscape Plants: Bulbs</td>
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<td>Annual and Perennial Garden Maintenance</td>
<td>HRT 344</td>
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<td>Plants for Landscaping</td>
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<td>Tropical Plants**</td>
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**Courses offered in the Spring–Summer Catalog

P Courses with a prerequisite before you can register

For professional horticultural organizations, see p. 25.

### INTRODUCTION TO PLANT SCIENCE

**ALL TRACKS**

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

- **7 Thursdays, 9/27–11/8**: 10:30 am–1:10 pm
  - Anya Paltseva | NYBG | 191HRT300E
- **7 Thursdays, 9/27–11/8**: 2–4:40 pm
  - Manny Grossman | NYBG | 191HRT300A
- **7 Sundays, 10/14–12/16**: (no class 10/21, 11/11 and 11/25), 2–4:40 pm
  - Elle Barnes | NYBG | 192HRT300B
- **7 Sundays, 10/14–12/16**: (no class 10/21, 11/11 and 11/25), 2–4:40 pm
  - Mannys Grossman | NYBG | 191HRT300A
- **7 Saturdays, 1/26–3/16**: (no class 2/16), 10 am–12:40 pm
  - Steve Kutos | NYBG | 193HRT300F
- **7 Thursdays, 1/31–3/14**: 10 am–12:40 pm
  - Leslie Day | NYBG | 193HRT300G

$395/$435

Exam on last class date.
SOIL SCIENCE I: PHYSICAL PROPERTIES
 Restoration of Soil Quality TRACKS 1, 2, & 3
 Learn how to analyze and improve the quality of soil. Gain a
 basic understanding of soil chemistry and biology, and
 common laboratory techniques used in soil science.
 Prerequisite: Introduction to Plant Science
 7 Tuesdays, 2/5–4/19, 6:15–8:50 pm Michael Ruggiero | NYBG | 191HRT331A
 5 Sundays, 2/24–4/21, 10 am–12:40 pm Deanna Curtis | NYBG | 191HRT331B
 $295/$325

SOIL SCIENCE II: CHEMISTRY AND NUTRITION
 TRACKS 1, 2, & 3
 Learn the fundamental principles of soil chemistry and
 basic nutritional principles of plants. Learn to identify
 soil and plant tissue tests in order to determine how
 to improve plant health.
 Prerequisites: Soil Science I
 7 Tuesdays, 9/25–11/8, 10 am–12:15 pm Manny Grossman | NYBG | 191HRT333A
 5 Fridays, 9/28–10/26, 10 am–12:15 pm Manny Grossman | NYBG | 191HRT333B
 5 Tuesdays, 10/2–10/30, 4:30–6:30 pm Deanna Curtis | NYBG | 192HRT333S
 $219/$239

LANDSCAPE PLANTS: FALL TREES AND SHRUBS TRACK 3
 Explore the diversity of deciduous trees and shrubs that
 transform the landscape in fall. Study the characteristic
 structure, growth habits, and uses of these important
 landscape plants.
 Prerequisite: Introduction to Plant Science
 7 Wednesdays, 9/26–11/7, 4:30–6:30 pm Michael Ruggiero | NYBG | 191HRT331A
 5 Sundays, 9/30–11/4, no class 10/7, 10 am–1 pm Michael Ruggiero | NYBG | 191HRT331B
 5 Sundays, 9/30–11/4, no class 10/7, 1:30–4:30 pm Michael Ruggiero | NYBG | 191HRT331C
 $295/$325

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.
 Prerequisites: Graphics I, Landscape Plants: Annuals, Landscape Plants: Spring Perennials and
 Landscape Plants: Summer and Fall Perennials
 7 Tuesdays, 9/8–11/3, no class 9/29 & 10/6, 10 am–12:50 pm Laura McKillop | NYBG | 191HRT551
 7 Mondays, 2/25–4/8, 6:15–9:05 pm Laura McKillop | NYBG | 193HRT551A
 $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. Examine the different aspects of 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.
 Prerequisite: Introduction to Plant Science
 6 Tuesdays, 9/25–10/30, 6:15–8:50 pm Michael Ruggiero | NYBG | 191HRT358A
 6 Fridays, 9/28–11/9, no class 11/2, 10 am–12:40 pm Valerie D’Antonio | NYBG | 193HRT358B
 6 Thursdays, 10/11–11/15, 10 am–12:40 pm Michael Ruggiero | NYBG | 192HRT358A
 6 Saturdays, 10/13–12/1, no class 11/3 & 11/24, 10 am–12:40 pm Manny Grossman | NYBG | 192HRT358B
 6 Saturdays, 3/30–5/11, no class 4/20, 10 am–12:40 pm Valerie D’Antonio | NYBG | 193HRT358C
 $395/$435
LANDSCAPE PLANTS: BULBS TRACK 4
This course is designed for horticulturists, gardeners, or designers who want to learn to identify and classify familiar and unusual spring-, summer-, and autumn-flowering bulbs. We will also focus on understanding their biology. Prerequisite: Introduction to Plant Science

7 Wednesdays, 3/13–4/24, 4–6 pm
Marta McDowell | NYBG | 193HRT342A

7 Thursdays, 3/14–4/25, 4:30–6:30 pm
Michael Hagen | NYBG | 193HRT342S

$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. Prerequisite: Introduction to Plant Science

7 Mondays, 9/17–11/5, (no class 10/8), 5:45–7:30 pm
Trevor Hall | NYBG | 191HRT481S

7 Saturdays, 9/8–10/27, (no class 10/6), 10 am–1 pm
Mark Kokinchak | NYBG | 191HRT481A

$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. Prerequisite: Introduction to Plant Science (or approval of the Program Coordinator)

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

7 Tuesdays, 9/25–11/6, 5:45–8:45 pm
Nick Storrs | NYBG | 191HRT411P

7 Tuesdays, 1/29–3/12, 1:30–4:30 pm
Michael Ruggiero | NYBG | 193HRT411A

7 Mondays, 1/28–3/18, (no class 2/18), 10:30 am–1:30 pm
Michael Ruggiero | NYBG | 193HRT411B

$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. Prerequisites: Introduction to Plant Science and Soil Science I

5 Wednesdays, 10/3–11/7, (no class 10/24), 4:30 pm–7:30 pm
David Laswell | NYBG | 192HRT482S

$355/$395

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. Prerequisite: Introduction to Plant Science

8 Tuesdays, 10/2–11/20, 4:30–7:05 pm, Plus an all-day field trip Friday, 11/2, 8 am–4 pm
Marc Hachadourian | NYBG | 192HRT491S

$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. Prerequisites: Introduction to Plant Science and Soil Science II

5 Mondays, 1/28–2/25, 5–8 pm, Plus an all-day field trip TBA, 8 am–4 pm
Mobee Weinstein | NYBG | 193HRT412A

$395/$435

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 | 193HRT412S

$395/$435

WEED IDENTIFICATION & MANAGEMENT TRACK 2
Learn how to identify and manage the common turf and landscape weeds found in residential and commercial sites. Examine a variety of weed control methods, including herbicides and non-chemical approaches. Study weed biology, biochemical pathways, and equipment calibration and care, as well as seasonal weed control programs. Field walks on the Garden grounds are included. Dress for the weather. Prerequisite: Introduction to Plant Science

6 Thursdays, 10/18–11/29, (no class 11/22), 4–7 pm
Nick Gershberg | NYBG | 192HRT312P

$359/$395

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.

4 Fridays, 2/1–2/22, 10 am–1:20 pm
Jay Petrow | NYBG | 193HRT349

$329/$369

REGISTER ONLINE AT NYBG.ORG/ADULTED OR CALL 800.322.NYBG (6924)
PRUNING PRINCIPLES AND PRACTICES TRACK 2 & 3
Through course study and hands-on pruning, you will learn the best tools, techniques, and timing to use when you prune to help shrubs, conifers, broadleaves, evergreens, and deciduous plants thrive. Explore how woody plant structure and physiology influence pruning. You’ll learn how to create and maintain hedges and become familiar with authentic pollarding techniques. Come dressed for fieldwork, and bring bypass pruners if you have them. Prerequisite: Introduction to Plant Science
6 Fridays, 10/5–11/16 (no class 11/2), 10 am–1 pm
Bill Logan | NYBG | 192HRT321A
6 Wednesdays, 10/31–12/12 (no class 11/21), 2–5 pm
Bill Logan | NYBG | 192HRT321B
6 Tuesdays, 11/6–12/18 (no class 11/20), 10 am–1 pm
Bill Logan | NYBG | 192HRT321C
6 Fridays, 1/25–3/1 (no class 2/17), 10 am–1 pm
Bill Logan | NYBG | 193HRT321P
6 Saturdays, 1/26–3/9 (no class 2/16), 1–4 pm
Samuel Bishop | NYBG | 193HRT321E
6 Thursdays, 2/7–3/14 (no class 2/14), 1–4 pm
Bill Logan | NYBG | 193HRT321S
$385/$425

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, 1/10–2/7, 1–3 pm
Bill Logan | NYBG | 193HRT440
$295/$325

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 Sundays, 1/27–2/24 (no class 2/17), 10 am–12:40 pm
Deirdre Carto | NYBG | 193HRT344
$195/$215

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. Prerequisites: Pruning Principles and Practices and Soil Science II
7 Wednesdays, 1/2–2/13 (no class 2/14), & Monday, 1/7, 5:30–7:30 pm
Wayne Cahilly | NYBG | 193HRT422S
$335/$369

MATHEMATICS FOR HORTICULTURISTS TRACK 2
This course is designed for horticulturists who are responsible for maintaining or directing the maintenance of outdoor landscapes. Methods of calculating areas, application rates for fertilizers, and amounts of soil amendments are reviewed during the first session, and a set of homework problems is analyzed during the second session.
3 Tuesdays, 2/19–3/5, 4:30–6:30 pm
Mobee Weinstein | NYBG | 193HRT356
$149/$165

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.
Thursday & Friday, 3/7 & 3/8, 10 am–4:30 pm
Steve Dobossy | NYBG | 193HRT323
$295/$329

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 course by an ISA-certified arborist teaches you the basics of chainsaw use and care, sharpening, and bar tensioning. Please bring lunch.
Sunday, 2/3, 9 am–3:30 pm
Julian Picciano | NYBG | 193HRT308
$145/$159

NEW HORTICULTURE TRACKS 2 & 3

TRACK 1

Exploring Design Basics TRACK 1
Learn the basics of landscape design. This course is designed for those who want to begin learning about designing outdoor spaces. This course will teach you to use visual maintenance, and identify service requirements. Design books supplied. Please bring lunch.
Thursday & Friday, 3/7 & 3/8, 10 am–4:30 pm
Steve Dobossy | NYBG | 193HRT323
$295/$329

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.
Thursday & Friday, 3/7 & 3/8, 10 am–4:30 pm
Steve Dobossy | NYBG | 193HRT323
$295/$329

MATHEMATICS FOR HORTICULTURISTS TRACK 2
This course is designed for horticulturists who are responsible for maintaining or directing the maintenance of outdoor landscapes. Methods of calculating areas, application rates for fertilizers, and amounts of soil amendments are reviewed during the first session, and a set of homework problems is analyzed during the second session.
3 Tuesdays, 2/19–3/5, 4:30–6:30 pm
Mobee Weinstein | NYBG | 193HRT356
$149/$165

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.
Thursday & Friday, 3/7 & 3/8, 10 am–4:30 pm
Steve Dobossy | NYBG | 193HRT323
$295/$329

PRUNING PRINCIPLES AND PRACTICES TRACKS 2 & 3
Through course study and hands-on pruning, you will learn the best tools, techniques, and timing to use when you prune to help shrubs, conifers, broadleaves, evergreens, and deciduous plants thrive. Explore how woody plant structure and physiology influence pruning. You’ll learn how to create and maintain hedges and become familiar with authentic pollarding techniques. Come dressed for fieldwork, and bring bypass pruners if you have them. Prerequisite: Introduction to Plant Science
6 Fridays, 10/5–11/16 (no class 11/2), 10 am–1 pm
Bill Logan | NYBG | 192HRT321A
6 Wednesdays, 10/31–12/12 (no class 11/21), 2–5 pm
Bill Logan | NYBG | 192HRT321B
6 Tuesdays, 11/6–12/18 (no class 11/20), 10 am–1 pm
Bill Logan | NYBG | 192HRT321C
6 Fridays, 1/25–3/1 (no class 2/17), 10 am–1 pm
Bill Logan | NYBG | 193HRT321P
6 Saturdays, 1/26–3/9 (no class 2/16), 1–4 pm
Samuel Bishop | NYBG | 193HRT321E
6 Thursdays, 2/7–3/14 (no class 2/14), 1–4 pm
Bill Logan | NYBG | 193HRT321S
$385/$425

EXAM ON LAST CLASS DATE.
HORTICULTURAL THERAPY
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 (189 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 2, 2019, all internship documentation must be submitted to the Registration Office by May 10, 2019.

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<td>THR 403</td>
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<td>THR 401</td>
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<td>GAR 301</td>
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<td>Horticultural Therapy in Behavioral Health Settings</td>
<td>THR 404</td>
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<td>THR 407</td>
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<td>HRT 411</td>
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<td>Garden Design for Special Populations</td>
<td>THR 408</td>
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<td>Horticultural Therapy Program Management</td>
<td>THR 409</td>
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TOTAL REQUIRED HOURS 189

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<tr>
<th>SITE VISITS</th>
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<tr>
<td>NYU Langone Medical Center, Therapeutic Horticulture Services</td>
<td>THR 525</td>
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<td>The HSNY’s GreenHouse Program on Rikers Island</td>
<td>THR 537</td>
<td>6</td>
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<td>Cardinal Cooke Health Center</td>
<td>THR 528</td>
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</table>

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.

Phyllis D’Amico, HTM, Program Coordinator

Anne Meore, HTR, Program Advisor

QUESTIONS? CONTACT PROGRAM COORDINATOR PHYLLIS D’AMICO, HTM, AT THRCOORDINATOR@NYBG.ORG
FUNDAMENTALS OF GARDENING
Explore the basic principles underlying successful, environmentally friendly gardening, including the structure and physiological processes of plants and their relationships to the settings in which they grow. Students learn not only what to do, but why. Topics include soils and their improvement, seed sowing, vegetative propagation, planting, pruning, watering, weeding, mulching, and disease and pest control.

6 Tuesdays, 9/25–10/30, 6:15–8:15 pm
Daryl Beyers | NYBG | 191GAR301G
4 Fridays, 11/2–11/30 (no class 11/23), 10 am–1 pm
Daryl Beyers | NYBG | 192GAR301A
4 Fridays, 2/1–2/22, 10 am–1 pm
Daryl Beyers | NYBG | 193GAR301C
4 Saturdays, 3/9–3/30, 10 am–1 pm
Michael Ruggiero | NYBG | 193GAR301E
$295/$325 Certificate Requirement

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

3 Saturdays, 9/15–9/29, 10 am–3:30 pm
Anne Meore, HTR | NYBG | 191THR301A
1 Saturday, 1/26, 10 am–3:30 pm, at NYBG
Matthew Wichrowski, HTR | NYBG | 193THR301B
3 Wednesdays, 2/6–2/20, 10 am–3:30 pm
Anne Meore, HTR | NYBG | 193THR301C
3 Saturdays, 3/30–4/13, 10 am–3:30 pm
Anne Meore, HTR | NYBG | 193THR301D
$375/$415

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

3 Saturdays, 10/27–11/17 (no class 11/10), 10 am–3:30 pm
Matthew Wichrowski, HTR | NYBG | 192THR403
$419/$459

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

3 Saturdays, 12/1–12/15, 10 am–3:30 pm
Abby Jaroslow, HTR | NYBG | 192THR401
$395/$435

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

4 Wednesdays, 10/3–10/24, 5:30–9:15 pm
Phyllis D’Amico, HTM | NYBG | 192THR402
$419/$459

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

3 Saturdays, 2/23–3/9, 10 am–3:30 pm
Abby Jaroslow, HTR | NYBG | 193THR407
$419/$459

REGISTER ONLINE AT NYBG.ORG/ADULTED OR CALL 800.322.NYBG (6924)
INTRODUCTION TO HORTICULTURAL THERAPY

Horiculture Therapy Methods and Materials
Evaluate tools, equipment, structures, and techniques used by participants in horticultural therapy activities. Design and construct adaptive tools and assistive devices through problem-solving activities. Expand your plant-selecting skills for specific therapeutic programming needs as you explore the collections and gardens at NYBG. Learn preventive approaches to safety in all horticultural therapy settings. Prerequisite: Horticultural Therapy for Physical Rehabilitation (or approval of the Program Coordinator)
3 Wednesdays, 4/10–4/24, 5:30–8:30 pm, and 1 Saturday, 4/27, 10 am–3:30 pm
Phyllis D’Amico, HTM, and John Beirne, HTR
NYBG | 194THR406
$419/$459

HORT THERAPY PROGRAM MANAGEMENT
Learn how to design and implement a horticultural therapy program in the private or public sector. Gain skills in developing program proposals, writing protocols, establishing evaluation methods and record-keeping policies, and managing staff and volunteers. Topics in business practices will include budget development and management, legal aspects of business establishment, and fundraising. Prerequisite: Behavioral Health Settings (or approval of the Program Coordinator)
3 Saturdays, 5/4–5/18, 10 am–3:30 pm
Pat Czarnecki, HTR | NYBG | 194THR409
$419/$459

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

The Horticultural Therapy Certificate Program is accredited by the American Horticultural Therapy Association (AHTA). Horticultural Therapy courses are eligible for college credit and can be applied toward voluntary Professional Registration through the AHTA. See page 59 for more information.

SITE VISITS

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, 11/1, 6:30 am–1 pm
Hilda Krus, HTR | Off site | 192THR537A
Thursday, 3/7, 6:30 am–1 pm
Hilda Krus, HTR | Off site | 193THR537B
$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, 10/30, 8:30 am–1 pm
Matthew Wichrowski, HTR, and staff | Off site
192THR525A
Tuesday, 12/4, 8:30 am–1 pm
Matthew Wichrowski, HTR, and staff | Off site
192THR525B
$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.
Tuesday, 3/19, 10:30 am–2:30 pm
Donna Arabian, HTR | Off site | 193THR528
$135/$149

REGISTER ONLINE AT NYBG.ORG/ADULTED OR CALL 800.322.NYBG (6924)
The need to develop, preserve, and protect our open spaces and environmental and cultural resources has never been greater. NYBG's engaging, career-oriented program gives you a solid, plant-focused foundation along with the skills and confidence to start your own business. And the Garden offers 250 inspiring acres of sustainable, functional landscapes for up-close, in-depth study. Take a single class for pleasure or pursue a professional Certificate in Landscape Design.

THE CERTIFICATE PROGRAM

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

Upon completion of the program, students will:

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

CERTIFICATE REQUIREMENTS

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<tr>
<th>COURSE</th>
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<tr>
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<td>Plants for Landscaping</td>
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<td>TIER 2</td>
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<td>Landscape Design I: Site Analysis and Schematic Design</td>
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<td>TIER 3</td>
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<td>Landscape Design III: Planting Design</td>
<td>LAN 403</td>
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<td>Professional Practice for Landscape Designers</td>
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<td>Landscape Design IV: Design and Construction</td>
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<td>Portfolio and Presentation Skills</td>
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<td>TOTAL REQUIRED HOURS</td>
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*Course hours do not include exam hours
**Courses offered in the Spring–Summer Catalog
P Courses with a prerequisite before you can register

For professional organizations, see p. 25.

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.

Susan Cohen, Program Coordinator
William Harris Einhorn, Program Advisor

QUESTIONS? CONTACT PROGRAM COORDINATOR SUSAN COHEN AT LANCOORDINATOR@NYBG.ORG
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 Thursdays, 9/20–11/15, 10 am–1 pm TBA | NYBG | 191LAN301B
9 Tuesdays, 1/8–3/5, 10 am–1 pm Paula Capps | NYBG | 193LAN301C
9 Wednesdays, 3/20–5/15, 10 am–1 pm Caitlin Merritt | NYBG | 193LAN301F
$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, 9/8–9/29, (ran date 10/13) 10 am–1 pm Wayne Cahilly | NYBG | 191LAN340C
4 Sundays, 4/28–5/19, 1:30–4:30 pm Wayne Cahilly | NYBG | 194LAN340A
$295/$329 Certificate Requirement

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

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

8 Thursdays, 9/27–11/15, 6:15–9:15 pm Gustavo Capparelli | NYBG | 191LAN311A
8 Wednesdays, 10/3–11/28 (no class 11/21), 10 am–1 pm William Harris Einhorn, RLA | NYBG | 192LAN311B
8 Tuesdays, 1/8–3/5 (no class 2/19), 6:15–9:15 pm Gustavo Capparelli | NYBG | 193LAN311D
8 Thursdays, 1/10–2/28, 10 am–1 pm William Harris Einhorn, RLA | NYBG | 193LAN311E
$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, 11/29–1/31, (no class 12/20 & 12/27), 10 am–1 pm Daryl Beyers | NYBG | 192LAN401P
$575/$635 Certificate Requirement

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

8 Mondays, 9/17–11/12 (no class 10/8), 6:15–9:15 pm Gustavo Capparelli | NYBG | 191LAN422A
8 Mondays, 3/18–5/6, 10 am–1 pm William Harris Einhorn, RLA | NYBG | 193LAN422B
$575/$635 Certificate Requirement

Exam on last class date.
GRAPHICS III
Build and expand upon your graphic presentation skills to create professional presentations to clients. Trimble SketchUp, a 3D sketching software program, is the focus of this advanced graphics class. Laptop computers (PC or Mac) with SketchUp are required. Prerequisite: Graphics II
8 Fridays, 9/14–11/2, 10 am–1 pm
William Harris Einhorn, RLA | NYBG | 191LAN417B
8 Wednesdays, 1/9–2/27, 10 am–1 pm
William Harris Einhorn, RLA | NYBG | 193LAN417A
$595/$655 Certificate Requirement

LANDSCAPE DESIGN III: PLANTING DESIGN
Through a series of design assignments, learn how to prepare planting plans for a variety of projects. Explore the significance of site conditions as well as plant form, texture, color, and ecological associations. Learn to develop plans that are practical, appropriate, and aesthetically satisfying. Prerequisites: Landscape Design II, Graphics III, and Plants for Landscaping. Recommended: Landscape Plants: Fall Trees and Shrubs and Landscape Plants: Spring Trees and Shrubs
8 Thursdays, 9/13–11/8 (no class 9/20), 10 am–1 pm
Alexis Gagne | NYBG | 191LAN403B
8 Wednesdays, 1/9–2/27, 10 am–1 pm
Alexis Gagne | NYBG | 193LAN403B
$575/$635 Certificate Requirement

GRADING
Grading serves both practical and aesthetic purposes in landscape design. Learn the principles of grading and how to create grading plans for your landscape projects. Through classroom discussions, exercises, and weekly assignments, students progress from mastering the use of contours and profiles to the creation of more complex grading plans including walkways, terraces, structures, and retaining walls. Prerequisites: Landscape Measurement and Graphics II
8 Mondays, 10/22–12/10, 10 am–1 pm
William Harris Einhorn, RLA | NYBG | 193LAN421B
8 Fridays, 3/15–5/3, 10 am–1 pm
William Harris Einhorn, RLA | NYBG | 193LAN421B
$575/$635 Certificate Requirement

PROFESSIONAL PRACTICE FOR LANDSCAPE DESIGNERS
Before you launch your own landscape design and installation practice, there are many business aspects you need to consider. Topics include attracting clients, preparing proposals, pricing, purchasing and installing plants, and strategies for success. Prerequisite: Landscape Design III
8 Wednesdays, 10/3–10/24, 5:15–8:15 pm
TBA | NYBG | 192LAN485
4 Thursdays, 2/7–2/28, 10 am–1 pm
Jennifer Nitzky | NYBG | 193LAN485B
$295/$325 Certificate Requirement

ESTIMATING
Learn the critical components for compiling accurate estimates for landscape projects, including materials, labor, overhead, and contingencies. Learn how to use estimates to stay profitable and compete successfully in today’s business climate. Prerequisite: Landscape Design II
4 Mondays, 1/7–2/4 (no class 1/21), 10 am–1 pm
Bruce G. Eckerson, PLA | NYBG | 193LAN380A
4 Mondays, 1/7–2/4 (no class 1/21), 2–5 pm
Bruce G. Eckerson, PLA | NYBG | 193LAN380B
$219/$239 Certificate Requirement

LANDSCAPE DESIGN IV: DESIGN AND CONSTRUCTION
Draw upon all of the skills you’ve developed in the Landscape Design program to create a residential project from start to finish, combining design with construction principles. Emphasis is on construction drawings, documents, and specifications, as well as estimating. Prerequisites: Landscape Design III, Grading, and Site Materials and Detail
11 Thursdays, 9/13–11/29 (no class 11/22), 5:15–8:15 pm
Liz Pulver | NYBG | 191LAN520A
11 Thursdays, 3/7–5/16, 3–6 pm
Liz Pulver | NYBG | 193LAN520B
$829/$909 Certificate Requirement

PORTFOLIO AND PRESENTATION SKILLS
Create visually compelling portfolios to present to potential clients. Learn how to develop professional documentation for a variety of audiences through in-class design charrettes and individualized projects. Both print and electronic media presentations will be discussed. Prerequisite: Landscape Design III
5 Tuesdays, 3/12–4/9, 6:15–9:15 pm
Blythe Yost | NYBG | 193LAN555
$379/$415 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. Prerequisites: Landscape Measurement and Landscape Design I
2 Wednesdays, 3/13 & 3/20, 3–6 pm, & 1 Saturday, 3/16, 10 am–4:30 pm
TBA | NYBG | 193LAN425
$295/$325 Certificate Requirement
Academic Policies & Procedures

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

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 Director with any questions or concerns at 718.817.8595.

Satisfactory Academic Progress Policy:
Student progress is measured by grades.

<table>
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<tr>
<th>Grade</th>
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<td>3.7</td>
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Students must maintain a cumulative weighted average of 70% on a 100% scale, and must pass all courses with a minimum grade of 60%. All students are required to complete a minimum of 90% of their cumulative registered clock hours. Students who do not meet the 90% cumulative completion percentage will be placed on probation. Courses for which a student receives a letter grade of A, A-, B+, B, B-, C+, C, C-, D+, D, and P (passing) are included in the calculation of cumulative clock hour completion percentage as courses successfully completed.

Courses for which a student receives a letter grade of INC and F will be treated as courses attempted, but not successfully completed. Students are required to meet these minimum standards at each point of their program evaluation. A student must repeat a course and earn a passing grade in order to fulfill the Certificate requirements; additional course materials will be charged at cost.

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

Entrance Requirements
To be admitted to the Program, students must be 18 years of age at the time of entrance, and must possess at least a high school or a New York State equivalency diploma.

Previous Education Credit
A student may qualify for course exemption by completing college courses taken for degree credit from an accredited college or university, evaluated non-collegiate sponsored instruction, or proficiency exams. Students who wish to be granted exemption from a required course must
1) Complete the Course Exemption Request Form
2) Present transcripts showing an earned grade of C or higher
3) Present the course outline, syllabus, and/or relevant supporting documentation.

The School will then evaluate these submissions and make a decision on course exemption. If a student is exempted from the course, s/he is required to take an equal number of hours of an approved elective course to complete the Certificate.

Attendance
On-time attendance is required at all classes. Unexcused tardiness and absences are not accepted and will be evaluated on a case-by-case basis.

A student who is absent from a class without adequate reason may be assigned a failing grade. Absences due to serious illness or death within a student’s family are recognized as excused absences. To validate such absences, the student should present evidence to the Director, who will then provide a letter of verification to all of the student’s instructors for the term.

Makeup quizzes and exams must be requested by the student and 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.

Tardiness Policy
Students are expected to be in class on time. Any student who is tardy more than three times shall be required to speak with the Director.

Leave of Absence Policy
In the case of a prolonged illness or accident, death in the family, or other special circumstances that make attendance impossible or impractical, a leave of absence may be granted to the student if requested in writing by the student with the specific reason for the leave request. It should include the approximate length of the requested leave. The approval of such leaves of absence shall be in writing by the School Director.

When a student returns from an approved leave of absence, s/he will be placed in the instructional program at the point commensurate with the skill level retained by the student at the time of his/her return. The School will assess this skill level in a counseling session with the student, or by employing a written or oral evaluation.
Student Withdrawal Policy
Students who wish to withdraw should meet with the School Director to review their progress and options for completing their education at the School at a later date. Approval for return to the program will be determined based on course schedule and other factors at the discretion of the School.

Student Conduct
Students are expected to establish good working relationships with their instructors, fellow students, and all other members of the Garden’s staff. It is the policy of the School to treat all students equitably and to administer all policies, procedures, and rules and regulations consistently. When a student’s performance is unsatisfactory or when students violate the policies and procedures of the School, the type of discipline selected will depend on the severity of the offense. Where warranted, the Director may elect to impose a suspension or termination whether or not there has been prior disciplinary action.

A student who wishes to appeal may present his/her case to the Director.

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.
• A student has six (6) years from the start of their first required course, to complete a Certificate.

Certificate Graduation Ceremony
The 2018 ceremony is scheduled for Sunday, June 3. Students who expect to complete their Certificate requirements, or be enrolled in their remaining classes, by May 25, 2018, must inform the Registration Office in writing of their candidacy by Friday, February 23, 2018.
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 year-round. Official transcripts must be requested in writing, including the name and address of the institution to which the transcript is being mailed. Transcripts are mailed within two (2) weeks and a copy is 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 his/her prior consent.

WHAT YOU SHOULD KNOW ABOUT STATE LICENSED PRIVATE SCHOOLS
The School of Horticulture and Landscape Design—which includes three programs: Horticulture, Horticultural Therapy, and Landscape Design—is licensed by 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.

Licensed private career schools offer curricula measured in clock hours, not credit hours. Certificates of completion are issued to students who meet clock hour requirements. The granting of any college credit to students who participate in and/or complete a program at a licensed private career school is solely at the discretion of the institution of higher education that the student may opt to subsequently attend.

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 submit a letter in writing to the Director of Adult Education at lwhitmer@nybg.org. If that proves unsatisfactory, they may 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 two years after the date of alleged occurrence.
Professional Societies, and Academic Programs

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 and Horticulture are invited to attend. Call Elaine Yellen at 914.723.4090 for details or drop by one of scheduled our 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 info, visit ahta.org

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

Department of Environmental Conservation (DEC)
The New York State Department of Environmental Conservation (DEC) requires commercial pesticide applicators to take a 30-hour course such as Preparation for Pesticide Applicator Certification Examination (HRT 357) offered at the Garden, and pass a State-administered exam. Applicators must periodically apply for recertification and complete a number of courses that the DEC and the New Jersey State Department of Environmental Protection (DEP) have approved for recertification credits.

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 more information, visit nofa.org

The New York Botanical Garden & Bronx Community College Associate Degree Program
NYBG and Bronx Community College 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@bbc.cuny.edu or 718.289.5538.
Tuition and Fees

<table>
<thead>
<tr>
<th>Program</th>
<th>Tuition</th>
<th>Non-Refundable Registration Fee</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horticulture: Plant Production: Track 1</td>
<td>$3,937</td>
<td>$100</td>
<td>$4,037</td>
</tr>
<tr>
<td>Horticulture: Sustainable Landscape Management: Track 2</td>
<td>$5,037</td>
<td>$100</td>
<td>$5,137</td>
</tr>
<tr>
<td>Horticulture: Arboriculture: Track 3</td>
<td>$4,890</td>
<td>$100</td>
<td>$4,990</td>
</tr>
<tr>
<td>Horticulture: Sustainable Garden Design: Track 4</td>
<td>$5,131</td>
<td>$100</td>
<td>$5,231</td>
</tr>
<tr>
<td>Horticultural Therapy</td>
<td>$5,015</td>
<td>$100</td>
<td>$5,115</td>
</tr>
<tr>
<td>Landscape Design</td>
<td>$8,552</td>
<td>$100</td>
<td>$8,652</td>
</tr>
</tbody>
</table>

Refunds and Withdrawals

No discounts will be granted for missed classes.
A 100% refund will be issued if your class is cancelled due to low enrollment.

A student who cancels within 7 days of signing the enrollment agreement receives all monies returned with the exception of the non-refundable registration fee. Thereafter, a student will be liable for all of the following:

1. the non-refundable registration fee
2. the cost of any textbook or supplies accepted
3. tuition liability as of the student’s last date of physical attendance

Because students pay tuition on a class-by-class basis, tuition liability is based on the cost of each individual class. Total tuition liability is limited to the quarter during which the student withdrew or was terminated and any previous quarters completed.

The charts below indicates what % of the student’s tuition the school may keep, based on when the student withdraws or is terminated.

FOR COURSES LONGER THAN 6 WEEKS

<table>
<thead>
<tr>
<th>First Quarter</th>
<th>% of tuition the school may keep</th>
<th>% of tuition the student is due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prior to or during the first week</td>
<td>0%</td>
<td>100%</td>
</tr>
<tr>
<td>During the second week</td>
<td>25%</td>
<td>75%</td>
</tr>
<tr>
<td>During the third week</td>
<td>50%</td>
<td>50%</td>
</tr>
<tr>
<td>During the fourth week</td>
<td>75%</td>
<td>25%</td>
</tr>
<tr>
<td>After the fourth week</td>
<td>100%</td>
<td>0%</td>
</tr>
</tbody>
</table>

Subsequent Quarters

| During the first week          | 25%                              | 75%                             |
| During the second week         | 50%                              | 50%                             |
| During the third week          | 75%                              | 25%                             |
| After the third week           | 100%                             | 0%                              |

FOR COURSES 6 WEEKS OR LESS

<table>
<thead>
<tr>
<th>% of tuition the school may keep</th>
<th>% of tuition the student is due</th>
</tr>
</thead>
<tbody>
<tr>
<td>0–15% of the program complete</td>
<td>0%</td>
</tr>
<tr>
<td>16–30% of the program complete</td>
<td>25%</td>
</tr>
<tr>
<td>31–45% of the program complete</td>
<td>50%</td>
</tr>
<tr>
<td>46–60% of the program complete</td>
<td>75%</td>
</tr>
<tr>
<td>More than 60% of the program complete</td>
<td>100%</td>
</tr>
</tbody>
</table>

To withdraw from a class and request a refund, please contact the Director at lwhitmer@nybg.org or 718.817.8595. The failure of a student to immediately notify the Director in writing of the student’s intent to withdraw may delay a refund of tuition to the student pursuant to Section 5002(3) of the Education Law.
Weekly Student Liability Chart
Horticulture Track 1 – Plant Production

The charts below indicate how much a refund would be in the event that a student had to withdraw or cancel their enrollment of particular courses during the program.

<table>
<thead>
<tr>
<th>FIRST QUARTER</th>
<th>Prior to or during the first week</th>
<th>During the second week</th>
<th>During the third week</th>
<th>During the fourth week</th>
<th>After the fourth week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intro to Plant Science</td>
<td>$395</td>
<td>$296.25</td>
<td>$197.50</td>
<td>$98.75</td>
<td>$0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SUBSEQUENT QUARTERS</th>
<th>During the first week</th>
<th>During the second week</th>
<th>During the third week</th>
<th>After the third week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soil Science I</td>
<td>$341.25</td>
<td>$227.50</td>
<td>$113.75</td>
<td>$0</td>
</tr>
<tr>
<td>Plant Propagation I: Basic Principles</td>
<td>$359.25</td>
<td>$239.50</td>
<td>$119.75</td>
<td>$0</td>
</tr>
<tr>
<td>Horticultural Techniques: Greenhouse Practices</td>
<td>$269.25</td>
<td>$179.50</td>
<td>$89.75</td>
<td>$0</td>
</tr>
<tr>
<td>Plant Propagation II: Applications</td>
<td>$296.25</td>
<td>$197.50</td>
<td>$98.75</td>
<td>$0</td>
</tr>
<tr>
<td>Insect Pests of Landscape Plants</td>
<td>$326.25</td>
<td>$217.50</td>
<td>$108.75</td>
<td>$0</td>
</tr>
<tr>
<td>Soil Science II</td>
<td>$296.25</td>
<td>$197.50</td>
<td>$98.75</td>
<td>$0</td>
</tr>
<tr>
<td>Disease Identification and Management</td>
<td>$356.25</td>
<td>$237.50</td>
<td>$118.75</td>
<td>$0</td>
</tr>
<tr>
<td>Nursery and Greenhouse Measurement</td>
<td>$411.75</td>
<td>$274.50</td>
<td>$137.25</td>
<td>$0</td>
</tr>
</tbody>
</table>
Weekly Student Liability Chart
Horticulture Track 2 – Sustainable Landscape Management

The charts below indicate how much a refund would be in the event that a student had to withdraw or cancel their enrollment of particular courses during the program.

<table>
<thead>
<tr>
<th>FIRST QUARTER</th>
<th>Prior to or during the first week</th>
<th>During the second week</th>
<th>During the third week</th>
<th>During the fourth week</th>
<th>After the fourth week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intro to Plant Science</td>
<td>$395</td>
<td>$296.25</td>
<td>$197.50</td>
<td>$98.75</td>
<td>$0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SUBSEQUENT QUARTERS</th>
<th>During the first week</th>
<th>During the second week</th>
<th>During the third week</th>
<th>After the third week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soil Science I</td>
<td>$341.25</td>
<td>$227.50</td>
<td>$113.75</td>
<td>$0</td>
</tr>
<tr>
<td>Pruning Principles and Practices</td>
<td>$288.75</td>
<td>$192.50</td>
<td>$96.25</td>
<td>$0</td>
</tr>
<tr>
<td>Horticultural Techniques: Landscape Gardening</td>
<td>$341.25</td>
<td>$227.50</td>
<td>$113.75</td>
<td>$0</td>
</tr>
<tr>
<td>Basic Design and Irrigation Systems</td>
<td>$221.25</td>
<td>$147.50</td>
<td>$73.75</td>
<td>$0</td>
</tr>
<tr>
<td>Mathematics for Horticulturalists</td>
<td>$111.75</td>
<td>$74.50</td>
<td>$37.25</td>
<td>$0</td>
</tr>
<tr>
<td>Starting a Small Landscaping Business</td>
<td>$246.75</td>
<td>$164.50</td>
<td>$82.25</td>
<td>$0</td>
</tr>
<tr>
<td>Tree Management</td>
<td>$251.25</td>
<td>$167.50</td>
<td>$83.75</td>
<td>$0</td>
</tr>
<tr>
<td>Insect Pests of Landscape Plants</td>
<td>$326.25</td>
<td>$217.50</td>
<td>$108.75</td>
<td>$0</td>
</tr>
<tr>
<td>Weed Identification and Management</td>
<td>$266.25</td>
<td>$177.50</td>
<td>$88.75</td>
<td>$0</td>
</tr>
<tr>
<td>Soil Science II</td>
<td>$296.25</td>
<td>$197.50</td>
<td>$98.75</td>
<td>$0</td>
</tr>
<tr>
<td>Disease Identification and Management</td>
<td>$356.25</td>
<td>$237.50</td>
<td>$118.75</td>
<td>$0</td>
</tr>
<tr>
<td>Landscape Management</td>
<td>$434.25</td>
<td>$289.50</td>
<td>$144.75</td>
<td>$0</td>
</tr>
</tbody>
</table>
**Weekly Student Liability Chart**  
**Horticulture Track 3 – Arboriculture**

The charts below indicate how much a refund would be in the event that a student had to withdraw or cancel their enrollment of particular courses during the program.

<table>
<thead>
<tr>
<th>FIRST QUARTER</th>
<th>Prior to or during the first week</th>
<th>During the second week</th>
<th>During the third week</th>
<th>During the fourth week</th>
<th>After the fourth week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intro to Plant Science</td>
<td>$395</td>
<td>$296.25</td>
<td>$197.50</td>
<td>$98.75</td>
<td>$0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SUBSEQUENT QUARTERS</th>
<th>During the first week</th>
<th>During the second week</th>
<th>During the third week</th>
<th>After the third week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soil Science I</td>
<td>$341.25</td>
<td>$227.50</td>
<td>$113.75</td>
<td>$0</td>
</tr>
<tr>
<td>Landscape Plants: Fall Trees and Shrubs</td>
<td>$221.25</td>
<td>$147.50</td>
<td>$73.75</td>
<td>$0</td>
</tr>
<tr>
<td>Tree Management</td>
<td>$251.25</td>
<td>$167.50</td>
<td>$83.75</td>
<td>$0</td>
</tr>
<tr>
<td>Winter Tree Identification</td>
<td>$221.25</td>
<td>$147.50</td>
<td>$73.75</td>
<td>$0</td>
</tr>
<tr>
<td>Chainsaws: Use, Safety, and Maintenance</td>
<td>$108.75</td>
<td>$72.50</td>
<td>$36.25</td>
<td>$0</td>
</tr>
<tr>
<td>Insect Pests of Landscape Plants</td>
<td>$326.25</td>
<td>$217.50</td>
<td>$108.75</td>
<td>$0</td>
</tr>
<tr>
<td>Tree Climbing for Arborists</td>
<td>$296.25</td>
<td>$197.50</td>
<td>$98.75</td>
<td>$0</td>
</tr>
<tr>
<td>Landscape Plants: Spring Trees and Shrubs</td>
<td>$221.25</td>
<td>$147.50</td>
<td>$73.75</td>
<td>$0</td>
</tr>
<tr>
<td>Soil Science II</td>
<td>$296.25</td>
<td>$197.50</td>
<td>$98.75</td>
<td>$0</td>
</tr>
<tr>
<td>Pruning Principles and Practices</td>
<td>$288.75</td>
<td>$192.50</td>
<td>$96.25</td>
<td>$0</td>
</tr>
<tr>
<td>Disease Identification and Management</td>
<td>$356.25</td>
<td>$237.50</td>
<td>$118.75</td>
<td>$0</td>
</tr>
<tr>
<td>Landscape Plants: Conifers</td>
<td>$221.25</td>
<td>$147.50</td>
<td>$73.75</td>
<td>$0</td>
</tr>
<tr>
<td>Urban Tree Care</td>
<td>$221.25</td>
<td>$147.50</td>
<td>$73.75</td>
<td>$0</td>
</tr>
</tbody>
</table>
Weekly Student Liability Chart

**Horticulture Track 4 – Sustainable Garden Design**

The charts below indicate how much a refund would be in the event that a student had to withdraw or cancel their enrollment of particular courses during the program.

<table>
<thead>
<tr>
<th>FIRST QUARTER</th>
<th>Prior to or during the first week</th>
<th>During the second week</th>
<th>During the third week</th>
<th>During the fourth week</th>
<th>After the fourth week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intro to Plant Science</td>
<td>$395</td>
<td>$296.25</td>
<td>$197.50</td>
<td>$98.75</td>
<td>$0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SUBSEQUENT QUARTERS</th>
<th>During the first week</th>
<th>During the second week</th>
<th>During the third week</th>
<th>After the third week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soil Science I</td>
<td>$341.25</td>
<td>$227.50</td>
<td>$113.75</td>
<td>$0</td>
</tr>
<tr>
<td>Landscape Design History</td>
<td>$446.25</td>
<td>$297.50</td>
<td>$148.75</td>
<td>$0</td>
</tr>
<tr>
<td>Landscape Plants: Broadleaved Evergreens</td>
<td>$164.25</td>
<td>$109.50</td>
<td>$54.75</td>
<td>$0</td>
</tr>
<tr>
<td>Graphics I</td>
<td>$446.25</td>
<td>$297.50</td>
<td>$148.75</td>
<td>$0</td>
</tr>
<tr>
<td>Plants for Landscaping</td>
<td>$296.25</td>
<td>$197.50</td>
<td>$98.75</td>
<td>$0</td>
</tr>
<tr>
<td>Landscape Plants: Bulbs</td>
<td>$221.25</td>
<td>$147.50</td>
<td>$73.75</td>
<td>$0</td>
</tr>
<tr>
<td>Landscape Plants: Spring Trees and Shrubs</td>
<td>$221.25</td>
<td>$147.50</td>
<td>$73.75</td>
<td>$0</td>
</tr>
<tr>
<td>Landscape Plants: Spring Perennials</td>
<td>$164.25</td>
<td>$109.50</td>
<td>$54.75</td>
<td>$0</td>
</tr>
<tr>
<td>Landscape Plants: Annuals</td>
<td>$146.25</td>
<td>$97.50</td>
<td>$48.75</td>
<td>$0</td>
</tr>
<tr>
<td>Tropical Plants</td>
<td>$266.25</td>
<td>$177.50</td>
<td>$88.75</td>
<td>$0</td>
</tr>
<tr>
<td>Landscape Plants: Grasses</td>
<td>$164.25</td>
<td>$109.50</td>
<td>$54.75</td>
<td>$0</td>
</tr>
<tr>
<td>Landscape Plants: Summer and Fall Perennials</td>
<td>$164.25</td>
<td>$109.50</td>
<td>$54.75</td>
<td>$0</td>
</tr>
<tr>
<td>Sustainable Garden Design</td>
<td>$363.75</td>
<td>$242.50</td>
<td>$121.25</td>
<td>$0</td>
</tr>
<tr>
<td>Annual and Perennial Garden Maintenance</td>
<td>$146.25</td>
<td>$97.50</td>
<td>$48.75</td>
<td>$0</td>
</tr>
</tbody>
</table>
Weekly Student Liability Chart

Horticultural Therapy

The charts below indicate how much a refund would be in the event that a student had to withdraw or cancel their enrollment of particular courses during the program.

### COURSES SIX (6) WEEKS OR LESS

<table>
<thead>
<tr>
<th>Course</th>
<th>1–15% complete</th>
<th>16–30% complete</th>
<th>31–45% complete</th>
<th>46–60% complete</th>
<th>more than 60% complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Horticultural Therapy</td>
<td>$365.00</td>
<td>$273.75</td>
<td>$182.50</td>
<td>$91.25</td>
<td>$0</td>
</tr>
<tr>
<td>Horticultural Therapy for Exceptional Youth</td>
<td>$389.00</td>
<td>$291.75</td>
<td>$194.50</td>
<td>$97.25</td>
<td>$0</td>
</tr>
<tr>
<td>Horticultural Therapy for Physical Rehabilitation</td>
<td>$389.00</td>
<td>$291.75</td>
<td>$194.50</td>
<td>$97.25</td>
<td>$0</td>
</tr>
<tr>
<td>Horticultural Therapy for the Aging Population</td>
<td>$365.00</td>
<td>$273.75</td>
<td>$182.50</td>
<td>$91.25</td>
<td>$0</td>
</tr>
<tr>
<td>Horticultural Therapy in Behavioral Health Settings</td>
<td>$389.00</td>
<td>$291.75</td>
<td>$194.50</td>
<td>$97.25</td>
<td>$0</td>
</tr>
<tr>
<td>Activities Analysis for Horticultural Therapy</td>
<td>$395.00</td>
<td>$296.25</td>
<td>$197.50</td>
<td>$98.75</td>
<td>$0</td>
</tr>
<tr>
<td>Garden Design for Special Populations</td>
<td>$365.00</td>
<td>$273.75</td>
<td>$182.50</td>
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<td>Horticultural Therapy Methods and Materials</td>
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<td>$296.25</td>
<td>$197.50</td>
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<td>Horticultural Therapy Program Management</td>
<td>$389.00</td>
<td>$291.75</td>
<td>$194.50</td>
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</table>

### COURSES LONGER THAN SIX (6) WEEKS

<table>
<thead>
<tr>
<th>Course</th>
<th>During the first week</th>
<th>During the second week</th>
<th>During the third week</th>
<th>After the third week</th>
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</thead>
<tbody>
<tr>
<td>Fundamentals of Gardening</td>
<td>$221.25</td>
<td>$147.50</td>
<td>$73.75</td>
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<tr>
<td>Introduction to Plant Science</td>
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<td>$197.50</td>
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<tr>
<td>Plant Propagation I: Basic Principles</td>
<td>$359.25</td>
<td>$239.50</td>
<td>$119.75</td>
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</table>
**Weekly Student Liability Chart**

**Landscape Design**

The charts below indicate how much a refund would be in the event that a student had to withdraw or cancel their enrollment of particular courses during the program.

<table>
<thead>
<tr>
<th>FIRST QUARTER</th>
<th>Prior to or during the first week</th>
<th>During the second week</th>
<th>During the third week</th>
<th>During the fourth week</th>
<th>After the fourth week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Landscape Design History</td>
<td>$595</td>
<td>$446.25</td>
<td>$297.50</td>
<td>$148.75</td>
<td>$0</td>
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</table>

<table>
<thead>
<tr>
<th>SUBSEQUENT QUARTERS</th>
<th>During the first week</th>
<th>During the second week</th>
<th>During the third week</th>
<th>After the third week</th>
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</thead>
<tbody>
<tr>
<td>Graphics I</td>
<td>$446.25</td>
<td>$297.50</td>
<td>$148.75</td>
<td>$0</td>
</tr>
<tr>
<td>Plants for Landscaping</td>
<td>$296.25</td>
<td>$197.50</td>
<td>$98.75</td>
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</tr>
<tr>
<td>Landscape Design I: Site Analysis &amp; Schematic Design</td>
<td>$431.25</td>
<td>$287.5</td>
<td>$143.75</td>
<td>$0</td>
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<tr>
<td>Graphics II</td>
<td>$446.25</td>
<td>$297.50</td>
<td>$148.75</td>
<td>$0</td>
</tr>
<tr>
<td>Landscape Design II: Design Development</td>
<td>$431.25</td>
<td>$287.5</td>
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<tr>
<td>Site Materials and Details</td>
<td>$431.25</td>
<td>$287.5</td>
<td>$143.75</td>
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<tr>
<td>Landscape Plants: Spring Trees and Shrubs</td>
<td>$221.25</td>
<td>$147.50</td>
<td>$73.75</td>
<td>$0</td>
</tr>
<tr>
<td>Landscape Measurement</td>
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<td>$147.50</td>
<td>$73.75</td>
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<tr>
<td>Graphics III</td>
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<td>Landscape Design III: Planting Design</td>
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<td>Landscape Plants: Fall Trees and Shrubs</td>
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<td>$147.50</td>
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<tr>
<td>Grading</td>
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<td>Estimating</td>
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<tr>
<td>Professional Practice for Landscape Designers</td>
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<td>Landscape Design IV: Design and Construction</td>
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<td>Drainage</td>
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<td>Portfolio and Presentation Skills</td>
<td>$284.25</td>
<td>$189.50</td>
<td>$94.75</td>
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</tr>
</tbody>
</table>
Registration

Registration
The quickest way to register for a class is to visit nybg.org/adulted Classes are filled in the order that payments are received. Many classes fill quickly, so please sign up early to avoid disappointment!

Registration confirmations will be sent same day via email.

General Information

Getting Here
You must present your printed confirmation letter at the Moshulu Gate of NYBG to gain entrance and free parking.

The Garden
Quick and easy to reach Bronx River Parkway (Exit 7W)
Metro North Railroad to Botanical Garden Station

Storm Closings
Class cancellations due to inclement weather will be rescheduled.
For closings due to weather, check our website, or call 718.817.8747 for a recorded message. Please call 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

Financial Assistance
Financial assistance is available through Adult Career and Continuing Education Services—Vocational Rehabilitation (ACCES-VR) and the Veterans Administration Educational Benefits. ACCES-VR services are for individuals with disabilities that interfere with getting or keeping a job or who have difficulty advancing at their job. For more information, refer to: http://www.acces.nysed.gov/vr/apply-vocational-rehabilitation-services Additionally, VAEB provides benefits to eligible veterans of the United States armed forces. An educational allowance may also be available to spouses and children of veterans, under Title 38, Chapter 35. Contact the School’s Director for further information.

Accessibility
The New York Botanical Garden is accessible and accommodating to persons with disabilities. Please ask about special needs accommodations when you register. For general information about accessibility at the Garden, visit nybg.org

School Facilities
Classrooms and academic facilities are in the Watson and Library buildings in the New York Botanical Garden.

Non-Discrimination Policy
NYBG’s School of Horticulture and Landscape Design has a policy of non-discrimination. It prohibits discriminatory actions against and treatment of applicants for admissions based on actual or perceived race, color, national origin, alienage or citizenship status, religion or creed, gender, disability, age (18 and over), military status, prior record of arrest or conviction, marital status, genetic predisposition or carrier status, sexual orientation, or status as a victim of domestic violence, a sex offense, or stalking. The New York Botanical Garden is an affirmative action, equal opportunity employer.

Disclosure Statement
The student should be aware that some information in the catalog may change. It is recommended that students considering enrollment check with the school director to determine if there is any change from the information provided in the catalog. In addition, a catalog will contain information on the school’s teaching personnel and courses/curricula offered. Please be advised that the State Education Department separately licenses all teaching personnel and independently approves all courses and curricula offered. It is again recommended that the student check with the school director to determine if there are any changes in the courses/curricula offered or the teaching personnel listed in the catalog.
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