

NYBG

SPRING-SUMMER 2021 | VOLUME 8



NEW YORK BOTANICAL GARDEN

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- On the cover: Zapotec Pleated Heirloom Tomato, *Solanum lycopersicum* 'Zapotec Pleated', Watercolor on paper, ©Asuka Hishiki


ABOUT THE COVER: *Solanum lycopersicum*
'Zapotec Pleated', Asuka Hishiki Official Entry

The Fourth NYBG Triennial
Abundant Future: Cultivating Diversity
in Garden, Farm, and Field

This spectacular heirloom tomato originated centuries ago and was cultivated by the Zapotec people of Oaxaca, Mexico. The image—along with other artwork seen throughout the catalog—is featured in this year's virtual botanical art exhibition, which showcases heirloom plants and their wild relatives, and highlights their critical role in increasing and preserving genetic diversity.

The exhibition is co-presented with the American Society of Botanical Artists.

Calendar



	HOLIDAYS	SCHOOL SCHEDULE
JANUARY	New Year's Day Martin Luther King Day weekend	Winter term begins
FEBRUARY	Lincoln's Birthday Presidents' Day weekend	
MARCH	Passover	
APRIL	Easter Sunday	Spring term begins
MAY	Memorial Day	
JUNE	Juneteenth	Graduation for those who have completed their Certificates
JULY	Independence Day	Summer term begins
AUGUST		
SEPTEMBER	Labor Day weekend Rosh Hashanah Yom Kippur	
OCTOBER	Federal Holiday	Fall term begins
NOVEMBER	Election Day Thanksgiving and the following Friday	
DECEMBER	Christmas week	

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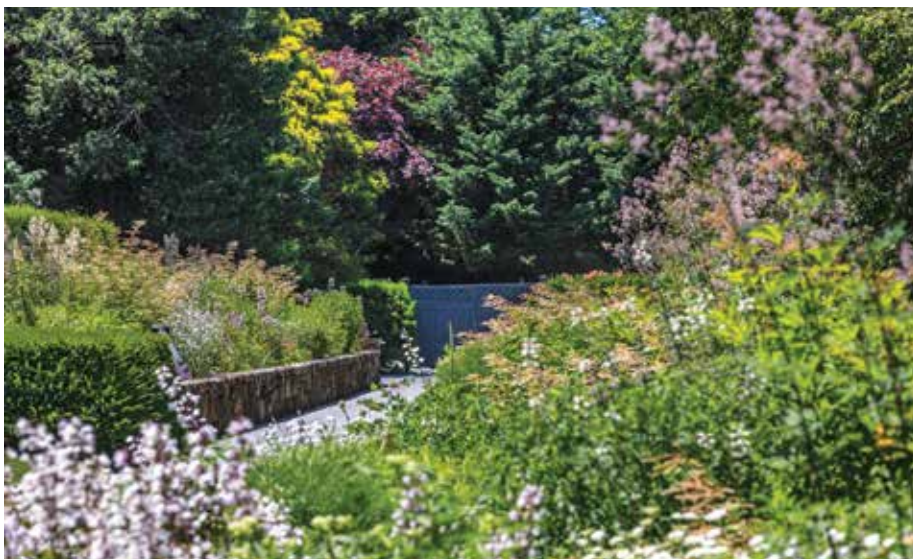
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School Staff

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, Ph.D., 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 working her way to Director of Horticulture and Woodland Management. Currently, she is Assistant Professor of Biology at Dominican College in Rockland County, New York.

Damon Arrington

Damon Arrington is a Landscape Urbanist who focuses on crisis landscapes and their subsequent effect on the people that inhabit them. He obtained a Master's Degree in Landscape Architecture from The City College of New York where he was a scholar for the J. Max Bond Center for Inclusion and Equity. His notable Landscape Architecture projects in NYC include The Hills on Governors Island, Jamaica Bay Restoration Project and park spaces for The New York Housing Authority.

Daryl Beyers

Daryl Beyers, brings over 20 years' experience designing residential gardens and private estates to NYBG. Beyers 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.

Mark Bunnell

Mark Bunnell, RLA, is a partner in the landscape architecture firm Quennell Rothschild & Partners. He has more than 32 years of experience designing and restoring public and private landscapes in New York City and beyond, including current projects for Pershing Square in Manhattan and Fowler Square in Brooklyn. Many of his projects have involved collaboration with artists, including Maya Lin, Alison Saar, and Xu Bing. His work also includes campus design projects for Sarah Lawrence College, Trinity College, and Colgate, Duke, and Brown Universities.

Katherine Brechner

Kathy Brechner, MBA, HTR, is a Registered Horticultural Therapist through the American Horticultural Therapy Association and received her original HT Certificate from the New York Botanical Garden. Her BA in Geology and a Certificate in Permaculture Design bring another aspect of nature education to her Horticultural Therapy and gardening work. She owns Lasting Nature, a company offering Horticulture Therapy programs for all ages and stages. Based in Sante Fe, Brechner serves on the Friends of Santa Fe Master Gardeners foundation board and volunteers with the Santa Fe Botanical Garden.

Steven Conaway

Steve Conaway, Ph.D. is the Assistant Director of Horticulture at Wave Hill, where he focuses on the health and beauty of the gardens, greenhouses, and woodlands. Conaway developed an early passion for plant science and sustainability working in crop diversity preservation on New England farms. He studied environmental horticulture at the University of New Hampshire where he helped implement the campus-wide composting program.

Pat Czarnecki

Pat Czarnecki, HTR, MBA, received a Certificate in Horticultural Therapy from the New York Botanical Garden and maintains professional registration by the American Horticultural Therapy Association. She is a licensed teacher in Horticulture by The New York State Education Department and owner of GreEn'ergy, LLC—a horticultural therapy and garden service for people of all ages and abilities in the NY/NJ metro area. Pat is a public speaker on the many benefits of horticultural therapy, a certified Paraprofessional with specialty in Autism, Master Gardener through Rutgers University, and past Board member of the Mid-Atlantic Horticultural Therapy Network, Inc.

Leslie Day

Leslie Day has been a science educator for 20 years with a doctorate in science education from Columbia University. Day is also a New York City naturalist and author of *Field Guide to the Natural World of New York City*, *Field Guide to the Street Trees of New York City*, *Field Guide to the Neighborhood Birds of New York City*, and her latest book *Honeybee Hotel: the Waldorf Astoria's Roof Garden and the Heart of New York City*.

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. D'Amico 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. D'Amico earned a Certificate in Horticultural Therapy from the New York Botanical Garden, where she has been an instructor for 30 years.

Alice Eckerson

Alice Eckerson, RLA, ASLA, is owner of the landscape architecture firm Eckerson Design Associates in Fairfield, Conn., which specializes in residential site planning and design.

Stacie Ellickson

Stacie Ellickson, LLA, is a Senior Landscape Architect and certified arborist at MNLA. A native of Iowa, she received her Bachelor of Landscape Architecture from Iowa State University and practiced in Des Moines prior to moving to New York City in 2015. With over 10 years of experience, Ellickson has managed a variety of project types at different scales and has a passion for finding solutions and details that make each project unique.

Nick Gershberg

Nick Gershberg is the Manager 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.

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.

David Holzman

David Holzman received a Master of Landscape Architecture from the University of Virginia, and a B.A. in Gender Studies from the University of Chicago. He teaches various courses for New York University's Sustainable Urban Environments program on topics ranging from green roofs to urban water. Holzman worked for a variety of design-build and architecture firms before launching his own independent design practice, Peduncle (Pedunclestudio.com). His research and work focuses on urban ecology, low-impact design, and challenging conventional uses and beauty standards for the built environment.

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 Kokinchak has a degree in Environmental Horticulture from UCONN and has 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.

Hilda Krus

Hilda Mechthild Krus is the Director of the Horticultural Society of New York's GreenHouse Program on Rikers Island Correctional Facility. Together with her team, she provides women, men and young adults who are incarcerated with horticultural therapy, class room horticultural training and applied education as well as year-round hands-on experience in horticulture. Hilda trains and supervises Horticultural Therapy students as well as Interns from related fields. Hilda is a registered Horticultural Therapist (HTR) and Social Worker (MSW, University of Essen, Germany). She has served on the board of the American Horticultural Therapy Association (AHTA).

George Lozefski

George Lozefski is the Laboratory Manager and Field & Education/Outreach Coordinator at the NYC Urban Soils Institute. As a dedicated and passionate scientist and educator, Lozefski has conducted environmental research at Columbia University's Lamont Doherty Earth Observatory and has been teaching Geoscience courses at Brooklyn College for over 10 years. He conducts soil science and soil testing workshops and provides training in soil quality test evaluations for academic and community settings. He received his B.S. Geology from Queens College, CUNY and a M.A. Environmental Science at Brooklyn College, CUNY.

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.

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, Meore is the Coordinator of the Garden Ministry at Bon Secours Charity Health System and an instructor at The Edible Academy at NYBG; owns Planthropy, 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.

Nancy Minich

Nancy A. Minich, HTR, RLA, ASLA, MLA, is a registered horticultural therapist and landscape architect, with a Masters in Landscape Architecture. She is the principal of NAM Planning & Design, LLC, a consulting landscape architecture and horticultural therapy firm focusing on regenerative landscapes and therapeutic program design.

Timothy Nolan

Tim Nolan runs Gardens By Design, a landscape and garden design firm, and works as a horticultural consultant for designers, primarily in New York City and the Hudson Valley. He holds a Horticulture Certificate in Sustainable Garden Design from the New York Botanical Garden.

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.

Elizabeth Poccia

Elizabeth Poccia received a Certificate in Landscape Design from the New York Botanical Garden. She is a former Assistant Designer at LDAH Landscape Architecture, where she was involved in high end residential design. She is passionate about using graphics as a tool to communicate reality to plan.

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 New York Botanical Garden, he lectures and writes on gardening topics and has authored several books.

Jessica Schuler

Jessica A. Schuler is the former Director of the Thain Family Forest where she was responsible for the management of the 50 acre, old growth urban forest, including ecological restoration and the development of education and research programs. She teaches about urban forest restoration, invasive species, and native plants. Jessica earned a BS in plant science with distinction in research from Cornell University, is an ISA-Certified Arborist, and a Certified Ecological Restoration Practitioner with the Society for Ecological Restoration.

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*.

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 New York 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. He also co-authored the book, *The Glass Garden: A Therapeutic Oasis in New York City*, which won the 2015 AHTA Publication Award.

Horticulture










Develop the vital skills needed to protect and manage sustainable landscapes, maintain healthy trees, design attractive gardens, and produce landscape plants. Enroll in a single class or pursue a Horticulture Certificate.









■ Black Soybean, *Glycine max* 'Tambaguro', Watercolor on paper, ©Akiko Enokido











THE CERTIFICATE PROGRAM








Increasing concerns for environmental quality, conservation, and restoration are driving jobs nationwide at landscaping companies, nurseries and garden centers, public parks, botanical gardens, and private estates. The NYBG Horticulture Certificate is a NY State licensed credential that helps professionals enhance their profiles, and individuals pursue new green careers. Taught by landscape and horticulture experts, the unique program blends classroom theory with field studies in the Garden's historic landscape, offering a high standard of training in four areas of concentration: Plant Production, Sustainable Landscape Management, Arboriculture, and Sustainable Garden Design.

CERTIFICATE REQUIREMENTS

Course	Code	Hours	Page
Plant Production TRACK 1			
Introduction to Plant Science	HRT 300	16	9
Soil Science I: Physical Properties	HRT 301	18	10
Soil Science II: Chemistry and Nutrition	HRT 302 	18	10
Horticultural Techniques: Greenhouse Practices	HRT 312 	15	11
Insect Pests of Landscape Plants	HRT 381 	18	11
Plant Propagation I: Basic Principles	HRT 411 	18	11
Plant Propagation II: Applications**	HRT 412 	13	—
Disease Identification & Management	HRT 481 	18	11
Nursery and Greenhouse Management***	HRT 491 	24	—
TOTAL REQUIRED HOURS		158	

Sustainable Landscape Management TRACK 2			
Introduction to Plant Science	HRT 300	16	9
Soil Science I: Physical Properties	HRT 301	18	10
Soil Science II: Chemistry and Nutrition	HRT 302 	18	10
Horticultural Techniques: Landscape Gardening	HRT 311 	18	11
Pruning Principles and Practices**	HRT 321 	15	—
Basic Design and Installation of Irrigation Systems***	HRT 323	12	—
Business Practices for the Landscape Professional**	LAN 457	12	—
Insect Pests of Landscape Plants	HRT 381 	18	11
Tree Management**	HRT 422 	14	—
Landscape Management**	HRT 443 	24	—
Disease Identification & Management	HRT 481 	18	11
Weed Identification & Management**	HRT 482 	12	—
Mathematics for Horticulturists	HRT 356	6	—
TOTAL REQUIRED HOURS		201	


Arboriculture TRACK 3			
Introduction to Plant Science	HRT 300	16	9
Soil Science I: Physical Properties	HRT 301	18	10
Soil Science II: Chemistry and Nutrition	HRT 302 	18	10
Tree Climbing for Arborists***	HRT 304	15	—
Chainsaws: Use, Safety, and Maintenance	HRT 308	6	11
Pruning Principles and Practices**	HRT 321 	15	—
Landscape Plants: Fall Trees and Shrubs	HRT 331 	12	11
Landscape Plants: Conifers**	HRT 333 	12	—
Landscape Plants: Spring Trees and Shrubs	HRT 334 	12	10
Insect Pests of Landscape Plants	HRT 381 	18	11
Tree Management**	HRT 422 	14	—
Urban Tree Care**	HRT 426 	12	—
Winter Tree Identification**	HRT 440 	8	—
Disease Identification & Management	HRT 481 	18	11
TOTAL REQUIRED HOURS		194	

Sustainable Garden Design TRACK 4			
Introduction to Plant Science	HRT 300	16	9
Soil Science I: Physical Properties	HRT 301	18	10
Landscape Plants: Broadleaved Evergreens**	HRT 332 	9	—
Landscape Plants: Spring Trees and Shrubs	HRT 334	12	10
Landscape Plants: Spring Perennials	HRT 336 	9	10
Landscape Plants: Late-Season Perennials & Grasses	HRT 338 	12	11
Landscape Plants: Annuals	HRT 341 	8	11
Landscape Plants: Bulbs**	HRT 342 	12	—
Annual and Perennial Garden Maintenance**	HRT 344 	8	—
Plants for Landscaping	HRT 358	16	10
Plant Communities	HRT 353	6	10
Sustainable Garden Care	HRT 395	8	11
Sustainable Garden Design**	HRT 551 	20	—
Landscape Design History	LAN 301	24	17
Graphics I	LAN 311	24	17
TOTAL REQUIRED HOURS		202	

*Course hours do not include exam hours

**Courses offered in the Fall–Winter Catalog

***Courses on-hold until indoor classes are possible

 Courses with a prerequisite before you can register

For professional organizations, see p. 20.

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

CERTIFICATE CLASSES**Open to Non-Certificate students****INTRODUCTION TO PLANT SCIENCE** ALL TRACKS

This user-friendly intro course surveys the major plant groups—flowering plants, conifers, ferns, and bryophytes—focusing on their form and structure. Become botanically literate and gain practical experience in dissecting and analyzing plant structures. | \$395/\$435

8 Wednesdays, 4/21–6/9, 6:30–8:30 pm

Regina Alvarez | Online | 214HRT300AO

8 Saturdays, 5/1–6/26 (no class 5/29), 10:30 am–12:30 pm

Leslie Day | Online | 214HRT300BO

8 Thursdays, 6/10–7/29, 10:30 am–12:30 pm

Manny Grossman | Online | 214HRT300DO

8 Sundays, 8/1–9/26, 10:30 am–12:30 pm


Regina Alvarez | Online | 221HRT300FO

SOIL SCIENCE I ALL TRACKS

Soil is a dynamic, living organism and the very foundation of sustainable horticulture and agriculture. This course focuses on the texture, structure, density, and color of different soils and the dynamic relationship that exists among soil, water, and plants. Through lectures and at-home labs, learn irrigation and drainage techniques and explore how soil, organic matter, and microbiology relate to plant health and soil conservation. | \$455/\$495

9 Saturdays, 8/7–10/16 (no class 9/3 & 10/9),
10 am–12 pm
Manny Grossman | Online | 221HRT301CO

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

Go beyond basic soil chemistry and examine how a soil's pH affects what nutrients are available to plants. Explore the ionic exchange capacities of soil, the complex nitrogen cycle, and the affects of composted soil amendments and fertilizers. Discover how soil and plant tissue tests can help monitor plant nutrition and health.  Prerequisite: *Soil Science I* | \$395/\$445

6 Wednesdays, 5/12–6/16, 6–9 pm
George Lozefski | Online | 214HRT302O


PLANTS FOR LANDSCAPING TRACK 4

Choose the right plant for the right place, based on site-specific design and maintenance criteria. Learn landscape values such as size, texture, color, and flowering and fruiting seasons. Review trees, shrubs, groundcovers, annuals, and perennials suitable for this region. *Blended class: online and on-site.* | \$395/\$435

6 Wednesdays, 6/2–7/7, 10 am †
Timothy Nolan | NYBG & Online | 214HRT358CBL


7 Fridays, 7/16–8/27, 9 am †
Vincent Simeone | NYBG & Online | 221HRT358GBL

LANDSCAPE PLANTS: SPRING TREES AND SHRUBS TRACK 3 & 4

Learn the identification, classification, and landscape use of spring-flowering trees and shrubs. Major plant groups include *Magnolia*, *Malus*, *Prunus*, *Viburnum*, and other genera, which are particularly ornamental in spring. *Blended class: online and on-site.*  Prerequisite: *Intro to Plant Science* | \$295/\$325

6 Fridays, 4/9–5/14, 10:30 am–12:30 pm
Vincent Simeone | NYBG & Online | 214HRT334ABL

**LANDSCAPE PLANTS: SPRING PERENNIALS TRACK 4**

This course is designed for horticulturists and gardeners who are familiar with the basic culture of perennials. Study how to identify, classify, and use 60 spring-blooming perennials in the landscape. Review scientific and common names. *Blended class: online and on-site.*  Prerequisite: *Intro to Plant Science* | \$219/\$239

4 Tuesdays, 5/4–5/25, 10 am–12:15 pm
Michael Ruggiero | NYBG & Online | 214HRT336BBL

PLANT COMMUNITIES TRACK 4

Fundamentally change the way you view natural landscapes by learning about the complex factors that inform which plants grow in what combinations. Understanding how and why these plant communities form will help you design beautiful landscapes that are more resilient, diverse, and harmonious. *Blended class: online and on-site.* | \$169/\$185


3 Fridays, 5/21–6/4, 9:30 am †
Jessica Schuler | NYBG & Online | 214HRT353BL

CHAINSAWS: USE, SAFETY, AND MAINTENANCE

Whether you are a budding arborist or weekend woodcutter, knowing how to use your chainsaw safely and maintain it properly are keys to success. This lecture-demonstration course by an ISA-certified arborist teaches you the basics of chainsaw use and care, sharpening, and bar tensioning. | \$145/\$159

3 Saturdays, 7/24–8/7, 10 am–12 pm
Julian Picciano | Online | 221HRT308O


LANDSCAPE PLANTS: ANNUALS TRACK 4

Study the identification, culture, and landscape use of approximately 60 annuals and select tender perennials, including major groups of common species and more unusual types. Learn how to choose low-maintenance plants, and review scientific and common names. *Blended class: online and on-site.*  Prerequisite: *Intro to Plant Science* | \$195/\$215

4 Fridays, 6/4–6/25, 9–11 am
Vincent Simeone | NYBG & Online | 214HRT341ABL

4 Saturdays, 7/10–7/31, 9–11 am
Michael Ruggiero | NYBG & Online | 221HRT341BBL

LATE-SEASON PERENNIALS & GRASSES TRACK 4

This course is designed for horticulturists and gardeners who are familiar with the basic culture of perennials. Learn the identifying characteristics, classification, scientific and common names, and landscape uses of approximately 60 summer- and fall-blooming native and non-native perennials and grasses. *Blended class: online and on-site.*  Prerequisite: *Intro to Plant Science* | \$295/\$325

3 Wednesdays 9/22–10/6, 5:30–7:30 pm &
3 Saturdays, 9/25–10/16 (no class 10/9) 10 am–12 pm
Michael Hagen | NYBG & Online | 221HRT338ABL

5 Tuesdays, 9/28–10/26, 10 am †
Michael Ruggiero | NYBG & Online | 221HRT338BBL



FALL TREES AND SHRUBS TRACK 3

Explore how to identify and use shade trees and shrubs that are native to and thrive in our region, including *Acer*, *Quercus*, and *Viburnum*, which are particularly ornamental in fall. *Blended class: online and on-site.* **P** Prerequisite: *Intro to Plant Science* \$295/\$325

6 Fridays, 9/24–11/5 ☞, 10 am–12 pm
Tim Nolan | NYBG & Online | 221HRT331ABL

5 Wednesdays, 10/13–11/10, 10 am †
Michael Ruggiero | NYBG & Online | 222HRT331CBL

LANDSCAPE GARDENING TRACK 2

Learn the basics of ecologically-appropriate landscape gardening. Topics include soil preparation, efficient watering and fertilization, planting and transplanting, cultivation, and plant maintenance. *Blended class: online and on-site.* **P** Prerequisites: *Intro to Plant Science* and *Soil Science I* | \$455/\$495

9 Thursdays, 4/1–5/27, 5–7 pm (Rain Dates:
Sundays, 4/25 & 5/23 10 am–2:30 pm)
Mobee Weinstein | NYBG & Online | 214HRT311PBL

INSECT PESTS OF LANDSCAPE PLANTS

TRACKS 1, 2, & 3

Learn to identify the insects common to the northeastern United States that feed on woody and herbaceous plants and the damage that they cause. Study how to judge the severity of an infestation and to select and implement control measures based on the insect's biology. *Blended class: online and on-site.* **P** Prerequisite: *Intro to Plant Science* \$435/\$479

4 Thursdays, 5/13–6/3, 6:15–8:30 pm &
3 Sundays, 5/16, 5/23, 6/6, (no class 5/30),
10 am–1 pm
Mark Kokinchak | NYBG & Online | 214HRT381BL

4 Thursdays, 8/12–9/2, 6:15–8:30 pm &
3 Sundays, 8/15–8/29, 10 am–1 pm
TBA | NYBG & Online | 221HRT381BBL

SUSTAINABLE GARDEN CARE TRACK 4

Explore how to create a healthy garden while supporting biodiversity and conserving resources. We'll discuss ways to minimize water usage, effectively handle stormwater, create a healthy soil food web, and use non-toxic alternatives to maintain optimal plant health. **P** Prerequisites: *Intro to Plant Science* and *Soil Science I* | \$195/\$215

4 Mondays, 6/7–6/28, 6–8 pm
Steven Conaway | Online | 214HRT395O

DISEASE IDENTIFICATION & MANAGEMENT

TRACKS 1, 2, & 3

Learn common diseases of woody and herbaceous ornamentals and turfgrass, and the cultural, biological, and least-toxic strategies for their control. *Blended class: online and on-site.*

P Prerequisite: *Intro to Plant Science* | \$475/\$495

4 Tuesdays, 4/13–5/4, 6:15–8:30 pm &
3 Saturdays, 4/17–5/1, 10 am–1 pm
Mark Kokinchak | NYBG & Online | 214HRT481ABL

3 Saturdays, 6/12–7/10, (no class 6/19 & 7/3),
10 am–1 pm &
4 Wednesdays, 6/16–7/7, 6:15–8:30 pm
Mark Kokinchak | NYBG & Online | 214HRT481BBL

MATHEMATICS FOR HORTICULTURISTS

TRACK 2

This course is designed for horticulturists who are responsible for maintaining or directing the maintenance of outdoor landscapes. We will cover how to calculate area to help estimate plants and soil needs, apply rates for fertilizers, and calculate amounts of soil amendments. | \$149/\$165

3 Tuesdays, 3/16–3/30, 5–7 pm
Mobee Weinstein | Online | 213HRT356O

PLANT PROPAGATION I TRACK 1

Learn principles and techniques of plant propagation by seed and cuttings. Explore basic sexual and asexual propagation, focusing on fruit development, seedling production, root initiation, stem and leaf cuttings, and layering. Students must purchase materials per instructor guidelines.

P Prerequisite: *Intro to Plant Science* | \$395/\$445

9 Mondays, 4/5–6/7 (no class 5/31), 5:30–7:30 pm
Mobee Weinstein | Online | 214HRT411AO

9 Tuesdays, 7/13–9/14 (no class 9/7), 5:30–7:30 pm
Mobee Weinstein | Online | 221HRT411BO

9 Wednesdays, 7/28–9/29 (no class 9/15), 6–8 pm
Nick Storrs | Online | 221HRT411CO

GREENHOUSE PRACTICES TRACK 1

This intro course covers practical greenhouse skills and integrated management techniques. Topics include structures and equipment, soils and other growing media, irrigation and fertilization, potting and repotting, and cultural practices.

P Prerequisite: *Intro to Plant Science* | \$359/\$395

8 Tuesdays, 9/28–11/16, 5–7:15 pm
Nick Gershberg | Online | 221HRT312PO

† The start time for all sections is as listed; end times vary. See website for the full schedule.

☞ 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

Respected nationwide, the NYBG Horticultural Therapy Certificate Program helps students begin or complement their careers through an in-depth exploration of skills and innovative methods that use plants and the growing environment to heal and rehabilitate people. Practicing horticultural therapists train students to design, implement, and operate programs for individuals and groups across a 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.



■ Vanilla Orchid, *Vanilla planifolia* (detail), Watercolor on vellum,
©Carol Woodin

CERTIFICATE REQUIREMENTS

Certificate students must complete 181 course hours and a 100-hour internship. After completing a minimum of six Horticultural Therapy courses, students should contact the Program Coordinator to arrange their internship.

Course	Code	Hours	Page
Introduction to Horticultural Therapy	THR 301	15	13
Horticultural Therapy for Youth with Disabilities	THR 402 P	15	14
Horticultural Therapy for Physical Rehabilitation	THR 403 P	15	13
Horticultural Therapy for Older Adults	THR 401 P	15	14
Fundamentals of Gardening	GAR 301	12	14
Horticultural Therapy in Behavioral Health Settings	THR 404 P	15	14
Horticultural Therapy Methods and Materials	THR 406 P	15	14
Activities Analysis for Horticultural Therapy	THR 407 P	15	14
Introduction to Plant Science	HRT 300	16	9
Plant Propagation I: Basic Principles	HRT 411 P	18	11
Garden Design for Special Populations	THR 408 P	15	14
Horticultural Therapy Program Management	THR 409 P	15	14
TOTAL REQUIRED HOURS		181	

P Courses with a prerequisite before you can register

Phyllis D'Amico, HTM, Program Coordinator

Anne Meore, HTR, Program Advisor

QUESTIONS? CONTACT PROGRAM COORDINATOR
PHYLLIS D'AMICO, HTM, AT THRCOORDINATOR@NYBG.ORG

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 718.817.8720.

The nine Horticultural Therapy courses are also accredited by the American Horticultural Therapy Association (AHTA) and can be applied toward voluntary Professional Registration through the AHTA. See p. 20 for more information.



INTRODUCTION TO HORTICULTURAL THERAPY

Explore the plant-people relationships and scientific research that are the foundations of horticultural therapy. Review current hort therapy programs, and the cognitive, physical, psychological, and social benefits of plants and plant-related activities for various populations. Build disability awareness and therapeutic skills. | \$395/\$445

3 Saturdays, 4/10–4/24, 9–11:30 am &
3 Tuesdays, 4/13–4/27, 4–6:30 pm
Anne Meore, HTR | Online | 214THR301AO

3 Saturdays, 6/12–6/26, 9–11:30 am &
3 Tuesdays, 6/15–6/29, 5–7:30 pm
Anne Meore, HTR | Online | 214THR301BO

3 Tuesdays and 3 Fridays, 8/3–8/20, 9–11:30 am
Anne Meore, HTR | Online | 221THR301CO

HORTICULTURAL THERAPY FOR PHYSICAL REHABILITATION

Explore the team treatment process and the various conditions treated in a clinical setting. Learn about etiology, diagnosis, and psychosocial effects, and the horticultural therapist's role in assessing, documenting, and developing treatment goals and objectives. Review case studies and develop treatment plans. **P** Prerequisite: *Intro to Horticultural Therapy* | \$419/\$459

3 Tuesdays, 4/13–4/27, 6:30–9 pm &
3 Saturdays, 4/17–5/1, 10 am–12:30 pm
Matthew Wichrowski, HTR | Online | 214THR403AO

3 Wednesdays, 6/2–6/16, 6:30–9 pm, &
3 Saturdays, 6/5–6/19, 10 am–12:30 pm
Matthew Wichrowski, HTR | Online | 214THR403BO



FUNDAMENTALS OF GARDENING

Explore the basics of successful, environmentally friendly gardening. Topics include soils and their improvement, seed sowing, vegetative propagation, planting, pruning, watering, weeding, mulching, and disease and pest control. \$295/\$325

6 Tuesdays, 4/13–5/18, 6–8 pm
Daryl Beyers | Online | 214GAR301AO

6 Mondays, 5/3–6/14, 6–8 pm
Manny Grossman | Online | 214GAR301BO

6 Mondays, 7/12–8/16, 9–11 am
Daryl Beyers | Online | 221GAR301DO

HORTICULTURAL THERAPY METHODS AND MATERIALS

Evaluate tools, equipment, structures, and techniques used by participants in horticultural therapy activities. Design and construct adaptive tools and assistive devices through problem-solving activities. Expand your plant-selecting skills for specific therapeutic programming needs as you explore NYBG's gardens. Learn preventive approaches to safety in all horticultural therapy settings. *Blended class: online and on-site.*

■ Prerequisite: *Horticultural Therapy for Physical Rehabilitation* | \$469/\$509

3 Saturdays & 3 Tuesdays, 4/24–5/11, 10 am †
Phyllis D'Amico, HTM | NYBG & Online
214THR406ABL

4 Sundays & 2 Wednesdays, 9/12–10/3
(no class 9/15), 10 am †
Phyllis D'Amico, HTR | NYBG & Online
221THR406BBL

HORTICULTURAL THERAPY FOR OLDER ADULTS

Older adults present an increasing need for therapeutic services. Learn the physical, sensory, cognitive, psychological, and social aspects of aging, and how horticulture can be an important component of geriatric care. ■ Prerequisite: *Intro to Horticultural Therapy* | \$419/\$459

3 Tuesdays, 5/4–5/25 (no class 5/11), 6:30–9 pm
& 3 Saturdays, 5/8–6/5 (no class 5/15 or 5/29),
10 am–12:30 pm
Kathy Brechner, HTR | Online | 214THR401O

HORTICULTURAL THERAPY IN BEHAVIORAL HEALTH SETTINGS

Horticultural therapy is practiced in a multitude of behavioral health settings, including hospitals, day treatment programs, group homes, correctional facilities, and in private practice. Learn the diagnostic criteria for major psychiatric conditions, including anxiety, mood, psychotic, cognitive, and substance use disorders. Review actual case studies and create treatment plans utilizing horticulture activities for specific needs. ■ Prerequisite: *Intro to Horticultural Therapy* | \$419/\$459

3 Tuesdays, 5/11–5/25, 6:30–9 pm &
3 Saturdays, 5/15–6/5 (no class 5/29),
10 am–12:30 pm
Hilda Krus, HTR | Online | 214THR404O

HORTICULTURAL THERAPY PROGRAM MANAGEMENT

Learn how to design and implement a horticultural therapy program in the private or public sector. Gain skills in developing program proposals, writing protocols, establishing evaluation methods and record-keeping policies, and managing staff and volunteers. Topics in business practices will include budget development and management, legal aspects of business establishment, and fundraising. ■ Prerequisites: *Exceptional Youth, Older Adults, Physical Rehab*, and *Behavioral Health Settings* | \$419/\$459

4 Tuesdays, 5/18–6/8, 6:30–9 pm &
2 Saturdays, 5/22–6/5 (no class 5/29),
10 am–12:30 pm
Pat Czarnecki, HTR | Online | 214THR409O

ACTIVITIES ANALYSIS FOR HORTICULTURAL THERAPY

Learn how to structure horticultural therapy activities so a client's progress can be clearly measured and assessed. You will develop a needs assessment and activity plan, write specific goals with measurable objectives, and practice leadership skills needed to work with groups and individuals. ■ Prerequisite: *Horticultural Therapy for Physical Rehabilitation* | \$419/\$459

3 Tuesdays, 6/8–6/22, 6:30–9 pm &
3 Saturdays, 6/12–6/26, 10 am–12:30 pm
Abby Jaroslow, HTR | Online | 214THR407AO

3 Saturdays, 8/7–8/21, 10 am–12:30 pm &
3 Tuesdays, 8/10–8/24, 6:30–9 pm
Abby Jaroslow, HTR | Online | 221THR407BO

HORTICULTURAL THERAPY FOR YOUTH WITH DISABILITIES

Gain insights into the causes and characteristics of developmental, sensory, physical, behavioral, and learning disabilities in children and adolescents. Learn to implement horticultural therapies that meet a range of goals in programs for preschool through high school. Explore brain-based research, and activities that can improve perceptual development and the learning process. ■ Prerequisite: *Intro to Horticultural Therapy* | \$419/\$459

3 Wednesdays, 7/7–7/21, 6–8:30 pm &
3 Saturdays, 7/10–7/24, 9:30 am–12 pm
Phyllis D'Amico, HTM | Online | 221THR402O

GARDEN DESIGN FOR SPECIAL POPULATIONS

Learn the latest research in therapeutic garden design, common design principles, and the issues and accommodations needed to create, renovate, and evaluate effective gardens for groups with special needs. ■ *Horticultural Therapy for Physical Rehab* | \$419/\$459

6 Wednesdays, 7/14–8/18, 6–8:30 pm
Nancy Minich, HTR, RLA | Online | 221THR408O

Landscape Design

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. Take a single class for pleasure or pursue a professional Certificate in Landscape Design.

THE CERTIFICATE PROGRAM

Whether you're changing careers or taking yours to the next level, the NYBG Landscape Design Certificate distinguishes your portfolio and showcases your development as a creative professional. And that puts you ahead—with colleagues, employers, and clients. Outstanding instructors who are working professionals guide you through a comprehensive program, where you 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.



■ Swiss Chard, *Beta vulgaris* 'Ruby Red' (detail),
Watercolor on paper, ©Mitsuko Schultz

CERTIFICATE REQUIREMENTS

Course	Code	Hours	Page
TIER 1— Introductory Classes			
Landscape Design History	LAN 301	24	17
Graphics I	LAN 311	24	17
Landscape Measurement**	LAN 340	P 12	—
Landscape Plants: Fall Trees and Shrubs	HRT 331	P 12	11
Landscape Plants: Spring Trees and Shrubs	HRT 334	P 12	10
Plants for Landscaping	HRT 358	16	10
TIER 2			
Landscape Design I: Site Analysis and Schematic Design	LAN 401	P 24	17
Landscape Design II: Design Development Estimating**	LAN 402	P 24	17
	LAN 380	P 9	—
Graphics II	LAN 411	P 24	17
Site Materials and Details	LAN 422	P 24	17
TIER 3			
Grading & Drainage	LAN 421	P 24	17
Graphics III	LAN 417	P 24	17
Landscape Design III: Planting Design	LAN 403	P 24	17
Business Practices for Landscape Professional**	LAN 457	12	—
Landscape Design IV: Design and Construction**	LAN 520	P 33	—
Portfolio and Presentation Skills **	LAN 555	P 15	—
TOTAL REQUIRED HOURS		337	

*Course hours do not include exam hours

**Courses offered in the Fall–Winter Catalog

P Courses with a prerequisite before you can register

For professional organizations, see p. 20.

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



ONLINE INTENSIVE PROGRAM

This summer program gets your career on the fast track! In just six weeks, you'll develop a solid foundation in landscape history, graphics, plants, and design under the expert guidance of talented instructors and complete about 25% of all coursework required for the Certificate. All classes will be held online with the exception of *Plants for Landscaping*, which will meet several times outdoors on NYBG's 250 magnificent acres.

THE CLASSES

Landscape Design History | Graphics I | Plants for Landscaping
Landscape Design I

Monday–Friday, 7/12–8/20 & 8/27, 10 am start; end times vary
NYBG & Online | 221LAN9550

TUITION AND REFUNDS

\$1,945 (Member) / \$2,135 (Non-Member)

A \$695 non-refundable deposit is due at registration.

An optional payment schedule is available if requested.

Students are required to purchase other supplies for the intensive as outlined in our online materials list, which total approximately \$400.

Questions about the Intensive?

Call 718.817.8720 or email: adulded@nybg.org



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.

Whether you're changing careers or taking yours to the next level, the NYBG Landscape Design Certificate distinguishes your portfolio and showcases your development as a complete professional. Our curriculum, instructors, and influential alumni network make this the gold standard in Certificate programs. And that puts you ahead—with colleagues, employers, and clients.

CERTIFICATE CLASSES

These classes are open to Non-Certificate students.

LANDSCAPE DESIGN HISTORY

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

Explore theories, traditions, and principles that have shaped of landscape design from antiquity to the present, through visual presentations, assigned readings, projects, and classroom discussion. \$595/\$655 *Certificate Requirement*

8 Wednesdays, 4/7–5/26, 10 am–1 pm
Caitlin Merritt | Online | 214LAN301AO

9 Mondays, 4/19–6/21 (no class 5/31), 6–9 pm
Mark Bunnell, RLA | Online | 214LAN301BO

4 Mondays & 4 Wednesdays, 7/12–8/4, 10 am–1 pm
Caitlin Merritt | Online | 221LAN301CO

9 Tuesdays, 9/14–11/9, 6–9 pm
Mark Bunnell, RLA | Online | 221LAN301DO

GRAPHICS I: HAND RENDERING

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

Graphics are essential in developing and communicating your ideas. Practice various graphic techniques on a range of materials and equipment, and learn how to organize and render landscape plans on paper for optimal presentation to clients. Homework required. Students must purchase materials per instructor guidelines. | \$595/\$655 *Certificate Requirement*

8 Thursdays, 4/22–6/10, 10 am–1 pm
Elizabeth Poccia | Online | 214LAN311AO

8 Tuesdays, 5/11–6/29, 6–9 pm
Elizabeth Poccia | Online | 214LAN311BO

4 Tuesdays & 4 Thursdays, 7/13–8/5, 10 am–1 pm
Elizabeth Poccia | Online | 221LAN311CO

8 Mondays, 9/20–11/15 (no class 10/11), 6–9 pm
Elizabeth Poccia | Online | 221LAN311DO

LANDSCAPE DESIGN I: SITE ANALYSIS AND SCHEMATIC DESIGN

Turning a vision into a plan is the designer's first challenge. Analyze landscapes, formulate the requirements of a design project, and then translate them into schematic design solutions. Take part in class discussions and critiques, and present projects. Extensive out-of-class design homework required. **P** Prerequisites: *Landscape Design History* and *Graphics I* | \$575/\$635 *Certificate Requirement*

8 Thursdays, 4/29–6/17, 6:15–9:15 pm
David Holzman | Online | 214LAN401AO

Mondays–Thursdays, 8/9–8/19, 10 am–1 pm
David Holzman | Online | 221LAN401BO

GRADING & DRAINAGE

Through discussion, fieldwork, and homework, students will identify landforms and watersheds, calculate slopes, and manipulate contours to create garden rooms and control water flow. Learn how to communicate design ideas to contractors and evaluate the opportunities and constraints of a project site. **P** Prerequisites: *Landscape Design I* and *Graphics II* | \$575/\$635 *Certificate Requirement*

9 Wednesdays, 4/7–6/2, 10 am †
Alice Eckerson | NYBG & Online | 214LAN428BL

SITE MATERIALS AND DETAILS

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

12 Mondays, 5/3–8/2 (no class 5/31 & 7/5), 6–8 pm
Damon Arrington | Online | 214LAN422O

GRAPHICS II: HAND RENDERING

Sharpen your graphic skills as you create a file of symbols and styles to draw upon for future professional use. Techniques for black-and-white and color rendering, sheet layout, section elevations, and perspectives are covered. Students must purchase materials per instructor guidelines. **P** Prerequisite: *Graphics I* | \$595/\$655 *Certificate Requirement*

8 Fridays, 5/7–6/25, 10 am–1 pm
Elizabeth Poccia | Online | 214LAN411O

8 Tuesdays, 9/14–11/2, 6–9 pm
Elizabeth Poccia | Online | 221LAN411BO

LANDSCAPE DESIGN II: DESIGN DEVELOPMENT

Apply basic design to site-specific problems, focusing on the process of design development. Start with a concept, then progress through the schematic phase to a preliminary design solution. Examine the relationships of landscape elements and materials to the design process. **P** Prerequisites: *Landscape Design I* and *Graphics II* | \$575/\$635 *Certificate Requirement*

8 Thursdays, 9/23–11/18 (no class 11/11), 6:15–9:15 pm
David McConnell | Online | 221LAN402O

LANDSCAPE DESIGN III: PLANTING DESIGN

Through a series of design assignments, prepare a variety of planting plans that are practical, appropriate, and aesthetically satisfying. Explore the significance of site conditions as well as plant form, texture, color, and ecological associations. **P** Prerequisites: *Landscape Design II*, *Graphics III*, and *Plants for Landscaping*. Recommended: *Fall Trees and Shrubs* and *Spring Trees and Shrubs* | \$575/\$635 *Certificate Requirement*

8 Thursdays, 9/23–11/18 (no class 11/11), 6:15–9:15 pm
Stacie Ellickson | Online | 221LAN403O



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.

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

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 2021 ceremony will be held online via Zoom on Sunday, June 6. If you expect to complete your Certificate requirements or enroll in all remaining classes by June this year, you must inform the Manager of Student Services in writing at adultedgraduation@nybg.org by May 3.

Call the Registration Office at 718.817.8720 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 apltd.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 718.817.8720 or Adijat Adebola at adijat.adebola@bbc.cuny.edu or 718.289.5538.



Tuition and Fees

Program	Tuition	Non-Refundable Registration Fee	Total
Horticulture: Plant Production: Track 1	\$4,263	\$100	\$4,363
Horticulture: Sustainable Landscape Management: Track 2	\$5,467	\$100	\$5,567
Horticulture: Arboriculture: Track 3	\$5,362	\$100	\$5,462
Horticulture: Sustainable Garden Design: Track 4	\$5,463	\$100	\$5,563
Horticultural Therapy	\$5,372	\$100	\$5,472
Landscape Design	\$9,077	\$100	\$9,177

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

First Quarter	% of tuition the school may keep	% of tuition the student is due
Prior to or during the first week	0%	100%
During the second week	25%	75%
During the third week	50%	50%
During the fourth week	75%	25%
After the fourth week	100%	0%
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

	% of tuition the school may keep	% of tuition the student is due
0–15% of the program complete	0%	100%
16–30% of the program complete	25%	75%
31–45% of the program complete	50%	50%
46–60% of the program complete	75%	25%
More than 60% of the program complete	100%	0%

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.

FIRST QUARTER	Prior to or during the first week	During the second week	During the third week	During the fourth week	After the fourth week
Intro to Plant Science	\$435	\$326.25	\$217.50	\$108.75	\$0

SUBSEQUENT QUARTERS	During the first week	During the second week	During the third week	After the third week
Soil Science I	\$371.25	\$247.50	\$123.75	\$0
Disease Identification and Management	\$371.25	\$247.50	\$123.75	\$0
Plant Propagation I: Basic Principles	\$333.75	\$222.50	\$111.25	\$0
Nursery and Greenhouse Measurement	\$453.75	\$302.50	\$151.25	\$0
Horticultural Techniques: Greenhouse Practices	\$296.25	\$197.50	\$98.75	\$0
Soil Science II	\$333.75	\$222.50	\$111.25	\$0
Plant Propagation II: Applications	\$351.75	\$234.50	\$117.25	\$0
Insect Pests of Landscape Plants	\$359.25	\$239.50	\$119.75	\$0



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.

FIRST QUARTER

	Prior to or during the first week	During the second week	During the third week	During the fourth week	After the fourth week
Intro to Plant Science	\$435	\$326.25	\$217.50	\$108.75	\$0

SUBSEQUENT QUARTERS

	During the first week	During the second week	During the third week	After the third week
Soil Science I	\$371.25	\$247.50	\$123.75	\$0
Mathematics for Horticulturalists	\$123.75	\$82.50	\$41.25	\$0
Horticultural Techniques: Landscape Gardening	\$371.25	\$247.50	\$123.75	\$0
Weed Identification and Management	\$296.25	\$197.50	\$98.75	\$0
Insect Pests of Landscape Plants	\$371.25	\$247.50	\$123.75	\$0
Soil Science II	\$333.75	\$222.50	\$111.25	\$0
Disease Identification and Management	\$371.25	\$247.50	\$123.75	\$0
Landscape Management	\$476.25	\$317.50	\$158.75	\$0
Pruning Principles and Practices	\$318.75	\$212.50	\$106.25	\$0
Basic Design and Irrigation Systems	\$246.75	\$164.50	\$82.25	\$0
Starting a Small Landscaping Business	\$228.75	\$152.50	\$76.25	\$0
Tree Management	\$276.75	\$184.50	\$92.25	\$0

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.

FIRST QUARTER	Prior to or during the first week	During the second week	During the third week	During the fourth week	After the fourth week
Intro to Plant Science	\$435	\$326.25	\$217.50	\$108.75	\$0

SUBSEQUENT QUARTERS	During the first week	During the second week	During the third week	After the third week
Soil Science I	\$371.25	\$247.50	\$123.75	\$0
Disease ID	\$371.25	\$247.50	\$123.75	\$0
Landscape Plants: Fall Trees and Shrubs	\$371.25	\$247.50	\$123.75	\$0
Pruning Principles and Practices	\$243.75	\$162.50	\$81.25	\$0
Soil Science II	\$333.75	\$222.50	\$111.25	\$0
Winter Tree Identification	\$333.75	\$222.50	\$111.25	\$0
Landscape Plants: Conifers	\$243.75	\$162.50	\$81.25	\$0
Chainsaws: Use, Safety, and Maintenance	\$243.75	\$162.50	\$81.25	\$0
Landscape Plants: Spring Trees and Shrubs	\$119.25	\$79.50	\$39.75	\$0
Insect Pests of Landscape Plants	\$359.25	\$239.50	\$119.75	\$0
Urban Tree Care	\$359.25	\$239.50	\$119.75	\$0
Tree Climbing for Arborists	\$243.75	\$162.50	\$81.25	\$0
Tree Management	\$326.25	\$217.50	\$108.75	\$0

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.

FIRST QUARTER	Prior to or during the first week	During the second week	During the third week	During the fourth week	After the fourth week
Intro to Plant Science	\$435	\$326.25	\$217.50	\$108.75	\$0

SUBSEQUENT QUARTERS	During the first week	During the second week	During the third week	After the third week
Soil Science I	\$371.25	\$247.50	\$123.75	\$0
Late Season Perennials & Grasses	\$243.75	\$162.50	\$81.25	\$0
Landscape Design History	\$491.25	\$327.50	\$163.75	\$0
Plants for Landscaping	\$326.25	\$217.50	\$108.75	\$0
Broadleaved Evergreens	\$179.25	\$119.50	\$59.75	\$0
Graphics 1	\$491.25	\$327.50	\$163.75	\$0
Plant Communities	\$138.75	\$92.50	\$46.25	\$0
Annual and Perennial Garden Maintenance	\$161.25	\$107.50	\$53.75	\$0
Bulbs	\$221.25	\$147.50	\$73.75	\$0
Spring Trees and Shrubs	\$243.75	\$162.50	\$81.25	\$0
Spring Perennials	\$179.25	\$119.50	\$59.75	\$0
Annuals	\$161.25	\$107.50	\$53.75	\$0
Sustainable Garden Care	\$161.25	\$107.50	\$53.75	\$0
Sustainable Garden Design	\$401.25	\$267.50	\$133.75	\$0

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	1–15% complete	16–30% complete	31–45% complete	46–60% complete	more than 60% complete
Introduction to Horticultural Therapy	\$445	\$333.75	\$222.50	\$111.25	\$0
Horticultural Therapy for Youth with Disabilities	\$459	\$344.25	\$229.50	\$114.75	\$0
Horticultural Therapy for Physical Rehabilitation	\$459	\$344.25	\$229.50	\$114.75	\$0
Horticultural Therapy for Older Adults	\$459	\$344.25	\$229.50	\$114.75	\$0
Horticultural Therapy in Behavioral Health Settings	\$459	\$344.25	\$229.50	\$114.75	\$0
Activities Analysis for Horticultural Therapy	\$459	\$344.25	\$229.50	\$114.75	\$0
Garden Design for Special Populations	\$459	\$344.25	\$229.50	\$114.75	\$0
Horticultural Therapy Methods and Materials	\$509	\$381.75	\$254.50	\$127.25	\$0
Horticultural Therapy Program Management	\$459	\$344.25	\$229.50	\$114.75	\$0

COURSES LONGER THAN SIX (6) WEEKS	During the first week	During the second week	During the third week	After the third week
Fundamentals of Gardening	\$243.75	\$162.50	\$81.25	\$0
Introduction to Plant Science	\$326.25	\$217.50	\$108.75	\$0
Plant Propagation I: Basic Principles	\$333.75	\$222.50	\$111.25	\$0

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.

FIRST QUARTER

	Prior to or during the first week	During the second week	During the third week	During the fourth week	After the fourth week
Landscape Design History	\$655	\$491.25	\$327.50	\$163.75	\$0

SUBSEQUENT QUARTERS

	During the first week	During the second week	During the third week	After the third week
Graphics 1	\$491.25	\$327.50	\$163.75	\$0
Fall Trees and Shrubs	\$243.75	\$162.50	\$81.25	\$0
Plants for Landscaping	\$326.25	\$217.50	\$108.75	\$0
Landscape Design 1	\$476.25	\$317.50	\$158.75	\$0
Graphics 2	\$491.25	\$327.50	\$163.75	\$0
Site Materials and Details	\$476.25	\$317.50	\$158.75	\$0
Landscape Design 2	\$476.25	\$317.50	\$158.75	\$0
Grading & Drainage	\$476.25	\$317.50	\$158.75	\$0
Graphics 3	\$491.25	\$327.50	\$163.75	\$0
Estimating	\$179.25	\$119.50	\$59.75	\$0
Spring Trees and Shrubs	\$243.75	\$162.50	\$81.25	\$0
Landscape Measurement	\$246.75	\$164.50	\$82.25	\$0
Landscape Design 3	\$476.25	\$317.50	\$158.75	\$0
Business Practices for the Landscape Professional	\$228.75	\$152.50	\$76.25	\$0
Landscape Design 4	\$681.75	\$454.50	\$227.25	\$0
Portfolio and Presentation Skills	\$311.25	\$207.50	\$103.75	\$0

Registration & General Information

Registration

Web

The quickest way to register for a class is to visit nybg.org/adulted

Phone

718.817.8720 Registration Office, M–F 9 am–5 pm

Confirmations

Registration confirmations will be sent same day via email.

General Information

Entrance to the Garden on Class Days

You must bring your printed confirmation letter for admission to the Garden, and present it at the Moshulu Entrance to gain admittance 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 accommodations when you register. For general information about accessibility at the Garden, visit nybg.org.

School Facilities

Due to the current COVID-19 safety guidelines, classes are now held online via Zoom and/or on-site, entirely outside on NYBG grounds, rain or shine.

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.

New York Botanical Garden
2900 Southern Blvd
Bronx, New York 10458-5126
Address Service Requested



Keep Growing at NYBG

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

Classes meet online and in our 250 magnificent acres in the Bronx.

- Charentais Melon, *Cucumis melo* 'Charentais', Egg tempera on panel, ©Kelly Leahy Radding