

NYBG

ADULT EDUCATION
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VOLUME 1



NEW YORK BOTANICAL GARDEN

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

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

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



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		Graduation for those who have completed their Certificates
JULY	Independence Day	Summer term begins
AUGUST		
SEPTEMBER	Labor Day weekend Rosh Hashanah Yom Kippur	
OCTOBER	Columbus Day	Fall term begins
NOVEMBER	Election Day Thanksgiving and the following Friday	
DECEMBER	Christmas week	

The Board of the New York Botanical Garden

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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.

John Beirne

John Beirne, HTR, a horticultural and garden-design consultant, runs a horticultural therapy program at New Bridge Services, Inc., a mental health center in New Jersey.

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®.

Ronda Brands

Ronda M. Brands, a graduate of the Botanical Garden's School of Professional Horticulture, designs public parks and private gardens. She has taught design and horticulture classes at various schools, including Columbia University and NYU.

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.

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.

Linda Chisholm

Linda A. Chisholm received her Ph.D. from Columbia University and is an historian whose special interest is in 18th-century English landscape design. Her former career in international education enabled her to visit many of the world's great gardens.

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.

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.

Jane Didona

Jane L. Didona, ASLA, RLA, is principal and founder of Didona Associates Landscape Architects. Her specialty is integrating effective stormwater management into aesthetic and functional landscapes. She has designed several award-winning landscapes and two of her residential projects received LEED Platinum certification from the U.S. Green Building Council.

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 LDAH Landscape Architecture, PC, specializing in residential design and installation with a focus on pool environments. Prior to establishing LDAH, Mr. Einhorn was the landscape architect at the New York Botanical Garden.

Don Gabel

Don Gabel is Manager of Plant Health at the Botanical Garden. He is an ISA-Certified Arborist, a certified Nurseryman, and has been active in the horticultural industry for more than 35 years.

Nancy Gerlach-Spriggs

Nancy Gerlach-Spriggs, MLA, designs small-scale residential landscapes and is co-author of *The Restorative Gardens: The Healing Landscape*, Yale University Press. She has taught in the NYBG Landscape Design Certificate Program for more than fifteen years and serves as Program Advisor for the Landscape Design Program.

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.

Nathaniel Harris

Nate Harris is a landscape designer at ABB Landscape Architects. He has a passion for ecology and planting design and has taken the lead on a number of planting designs in the office ranging in scale from large college campuses to small residential courtyards. He holds a BA in Environmental Studies from New York University and an MLA from City College of New York.

Sarah Hettinger

Sarah Hettinger is a graduate of New York University in England with a degree in Historic and sustainable Architecture. She's worked as an Assistant Conservation Officer to the Planning Division in the London Borough of Lambeth, contributing to the preservation of several historic sites through English Heritage and the National Trust for Historic Preservation. She joined the New York Botanical Garden as the Assistant of the Lionel Goldfrank III Institutional Mapping Department in 2012.

Kevin Kenney

Kevin has been involved in the tree care industry for over 33 years. He graduated with a Bachelor of Science degree in Business Economics from the State University of Oneonta in 1988. He is a Board Certified Master Arborist with the International Society of Arboriculture and has served as President of the NY State Chapter. He has also served on their board in different capacities for 12 years. Mr. Kenney is certified in Tree Risk Assessment Qualifications (TRAQ) and can accurately perform tree risk assessments for homeowners, corporate campuses, academia, or municipalities. He has been a licensed pesticide applicator since 1988 and has received industry awards for projects in Central Park as well as the 9/11 Memorial and Museum.

Songsuk Kim

Songsuk Kim, BS, is a graduate of the School of Professional Horticulture at the Botanical Garden, where she is now a Gardener in the Enid A. Haupt Conservatory.

Bill Kolvek

Bill Kolvek is owner and operator of Bill Kolvek Perennials, a nursery that has grown perennials, grasses, ferns, vines, and woody plants since 1987.

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.

Eric Lieberman

Eric Lieberman has many years of experience working in both interior and exterior landscaping. He graduated from the New York Botanical Garden School of Professional Horticulture in 2012 and is currently the Garden Education Manager, where he helps to oversee the School and the Plant Information Office.

Gary Lincoff

Gary Lincoff has taught plant studies at the Botanical Garden since the 1970s. He is author of several books on mushrooms, including *The Audubon Society Field Guide to North American Mushrooms*. In 2002, he was awarded NYBG Instructor of the Year.

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.

Myra Marsocci

Myra Marsocci owns Shades of Green, Inc., a garden design and maintenance firm in Crompond, New York. Previously, she designed gardens for hospitals and urban spaces and maintains over 20 residential and estate properties. She is a graduate of The New York Botanical Garden School of Professional Horticulture, and has been professionally gardening for 25 years.

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 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.

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. Nancy has written publications on her award-winning projects and research and is a frequently requested speaker at conferences throughout the US.

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.

Tam Nguyen

Tam Nguyen holds a Bachelor of Science and a Master of Science in Biology from NYU. His experience in the Natural Sciences includes working at the American Museum of Natural History as Scientific Assistant in the Division of Invertebrate Zoology. In addition to laboratory experience, Tam also has taken part in several scientific expeditions including field research in Madagascar and Vietnam. Within the US, he has done field work in Pennsylvania, South Carolina, Arizona, and New Mexico. Currently he is an Adjunct Lecturer in Biology at CUNY, Medgar Evers College.

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.

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.

Robert Schilke

Robert Schilke is owner of Schilke Enterprises and Schilke Lawn Systems. He is Chairman of the Conn. and NY Irrigation Contractors Association.

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.

Travis Wolf

Travis Wolf is a Graduate of the School of Professional Horticulture and an ISA Certified Arborist. He is a member of the arboretum crew at the BBG and previously worked as an arborist at NYBG.

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.



HORTICULTURE



Family: Magnoliaceae

Species: *Magnolia grandiflora*

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

Freda Snavelly & Ethel Mitchell 06 Aug 1973

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

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

THE CERTIFICATE PROGRAM

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

TRACK 1: PLANT PRODUCTION

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

TRACK 2: SUSTAINABLE LANDSCAPE MANAGEMENT

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

TRACK 3: ARBORICULTURE

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

TRACK 4: SUSTAINABLE GARDEN DESIGN

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

CERTIFICATE REQUIREMENTS

COURSE	CODE	HOURS*	PAGES
PLANT PRODUCTION—TRACK 1			
Introduction to Plant Science	HRT 300	16	11
Soil Science I: Physical Properties	HRT 301	18	11
Soil Science II: Chemistry and Nutrition	HRT 302 P	16	11
Horticultural Techniques: Greenhouse Practices	HRT 312 P	15	13
Insect Pests of Landscape Plants**	HRT 381 P	18	—
Plant Propagation I: Basic Principles	HRT 411 P	18	13
Plant Propagation II: Applications	HRT 412 P	17	14
Disease Identification & Management	HRT 481 P	18	13
Nursery and Greenhouse Management	HRT 491 P	24	13
TOTAL REQUIRED HOURS		160	

*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.



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































**GET NYBG
CERTIFIED**

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

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

CERTIFICATE REQUIREMENTS (cont.)

COURSE	CODE	HOURS*	PAGE
SUSTAINABLE LANDSCAPE MANAGEMENT—TRACK 2			
Introduction to Plant Science	HRT 300	16	11
Soil Science I: Physical Properties	HRT 301	18	11
Soil Science II: Chemistry and Nutrition	HRT 302 	16	11
Horticultural Techniques: Landscape Gardening	HRT 311 	21	13
Pruning Principles and Practices	HRT 321 	15	14
Basic Design and Installation of Irrigation Systems	HRT 323	12	13
Starting a Small Landscaping Business	HRT 349	14	13
Insect Pests of Landscape Plants**	HRT 381 	18	—
Tree Management	HRT 422 	14	14
Landscape Management	HRT 443 	24	13
Disease Identification & Management	HRT 481 	18	13
Weed Identification & Management	HRT 482 	12	13
Mathematics for Horticulturists	HRT 356	6	14
TOTAL REQUIRED HOURS		204	
ARBORICULTURE—TRACK 3			
Introduction to Plant Science	HRT 300	16	11
Soil Science I: Physical Properties	HRT 301	18	11
Soil Science II: Chemistry and Nutrition	HRT 302 	16	11
Tree Climbing for Arborists**	HRT 304	15	—
Chainsaws: Use, Safety, and Maintenance	HRT 308	6	14
Pruning Principles and Practices	HRT 321 	15	14
Landscape Plants: Fall Trees and Shrubs	HRT 331 	12	12
Landscape Plants: Conifers	HRT 333 	12	12
Landscape Plants: Spring Trees and Shrubs**	HRT 334 	12	—
Insect Pests of Landscape Plants**	HRT 381 	18	—
Tree Management	HRT 422 	14	14
Urban Tree Care**	HRT 426 	12	—
Winter Tree Identification	HRT 440 	8	14
Disease Identification & Management	HRT 481 	18	13
TOTAL REQUIRED HOURS		192	
SUSTAINABLE GARDEN DESIGN—TRACK 4			
Introduction to Plant Science	HRT 300	16	11
Soil Science I: Physical Properties	HRT 301	18	11
Landscape Plants: Broadleaved Evergreens	HRT 332 	8	12
Landscape Plants: Spring Trees and Shrubs**	HRT 334 	12	—
Landscape Plants: Spring Perennials**	HRT 336 	9	—
Landscape Plants: Summer and Fall Perennials	HRT 337 	9	12
Landscape Plants: Grasses**	HRT 340 	9	—
Landscape Plants: Annuals**	HRT 341 	8	—
Landscape Plants: Bulbs	HRT 342 	12	13
Annual and Perennial Garden Maintenance	HRT 344 	8	14
Plants for Landscaping	HRT 358	16	12
Tropical Plants**	HRT 361 	15	—
Sustainable Garden Design	HRT 551 	20	12
Landscape Design History	LAN 301	24	21
Graphics I	LAN 311	24	21
TOTAL REQUIRED HOURS		208	

*Course hours do not include exam hours

**Courses offered in the Spring-Summer Catalog

 Courses with a prerequisite before you can register

For professional horticultural organizations, see p. 25.

THE CLASSES

INTRODUCTION TO PLANT SCIENCE

ALL TRACKS

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

8 Thursdays, 9/28–11/16, 10 am–12:20 pm
Anya Paltseva | NYBG | 181HRT300F

7 Thursdays, 9/28–11/9, 2–4:40 pm
Manny Grossman | NYBG | 181HRT300A

7 Sundays, 10/15–12/30 (no class 11/5 & 11/26),
2–5:10 pm
Manny Grossman | NYBG | 182HRT300B

Mondays, Wednesdays, Fridays, 1/8–1/24
(no class 1/15), 10 am–12:40 pm
Manny Grossman | NYBG | 183HRT300D

7 Thursdays, 1/11–2/22, 10 am–12:40 pm
Gary Lincoff | NYBG | 183HRT300F

7 Saturdays, 1/27–3/17 (no class 2/17),
10 am–12:40 pm
Manny Grossman | NYBG | 183HRT300G

SOIL SCIENCE I: PHYSICAL PROPERTIES

ALL TRACKS

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

7 Thursdays, 10/5–11/16, 2–5 pm
George Lozefski | NYBG | 182HRT301A

7 Thursdays, 1/25–3/8, 6:15–9:15 pm
George Lozefski | NYBG | 183HRT301B

7 Saturdays, 1/27–3/17 (no class 2/17),
10:30 am–1:30 pm
Anya Paltseva | NYBG | 183HRT301C

8 Wednesdays, 1/31–3/21, 10 am–12:35 pm
George Lozefski | NYBG | 183HRT301S

8 Thursdays, 3/15–5/3, 10 am–12:35 pm
Anya Paltseva | NYBG | 183HRT301D

\$455/\$495



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

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

P Prerequisite: *Soil Science I*

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

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

\$395/\$445

LANDSCAPE PLANTS: SUMMER AND FALL PERENNIALS TRACK 4

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

P Prerequisite: *Introduction to Plant Science*

4 Wednesdays, 9/6–9/27, 10 am–1 pm
Ronda Brands | NYBG | 181HRT337S

4 Saturdays, 9/9–10/14 (no class 9/23, 9/30 & 10/7), 10 am–1 pm
Michael Hagen | NYBG | 181HRT337A

4 Tuesdays, 9/12–10/10 (no class 9/19),
10 am–1 pm
Michael Ruggiero | NYBG | 181HRT337B

\$219/\$239

LANDSCAPE PLANTS: FALL TREES AND SHRUBS TRACK 3

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

P Prerequisite: *Introduction to Plant Science*

7 Wednesdays, 9/27–11/8, 4:30–6:30 pm
Michael Ruggiero | NYBG | 181HRT331A

5 Sundays, 10/15–11/12, 10 am–1 pm
Michael Ruggiero | NYBG | 182HRT331B

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

\$295/\$325

SUSTAINABLE GARDEN DESIGN TRACK 4

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

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

7 Saturdays, 9/9–11/4 (no class 9/30 & 10/7),
10 am–12:50 pm
Laura McKillop | NYBG | 181HRT551

7 Wednesdays, 2/21–4/4, 6:15–9:05 pm
Laura McKillop | NYBG | 183HRT551A

\$485/\$535

PLANTS FOR LANDSCAPING TRACK 4

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

6 Tuesdays, 9/26–10/31, 6:15–8:50 pm
Michael Ruggiero | NYBG | 181HRT358D

6 Fridays, 9/29–11/3, 10 am–12:40 pm
Valerie D'Antonio | NYBG | 181HRT358A

6 Thursdays, 10/12–11/16, 10 am–12:40 pm
Michael Ruggiero | NYBG | 182HRT358C

6 Sundays, 10/15–11/19 (no class 11/5),
10 am–1:10 pm
Manny Grossman | NYBG | 182HRT358D

6 Saturdays, 3/3–4/14 (no class 3/31), 10 am–12:40 pm
Valerie D'Antonio | NYBG | 183HRT358E

\$395/\$435

LANDSCAPE PLANTS: BROADLEAVED EVERGREENS TRACK 4

Learn native and non-native broadleaved evergreens; become familiar with their cultural requirements, identification features, and landscape uses.

Learn how to incorporate this important group of plants into both naturalistic and formal landscape settings. Major plant groups studied include *Ilex*, *Rhododendron*, *Buxus*, and evergreen groundcovers. Classroom lectures are reinforced with walks on the Garden grounds, rain or shine. Dress for the weather.

P Prerequisite: *Introduction to Plant Science*

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

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

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

\$219/\$239

LANDSCAPE PLANTS: CONIFERS TRACK 3

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

P Prerequisite: *Introduction to Plant Science*


7 Tuesdays, 11/14–1/9 (no class 12/19 & 12/26),
1:30–3:30 pm
Michael Ruggiero | NYBG | 182HRT333S


7 Wednesdays, 1/31–3/14, 2–4 pm
Michael Ruggiero | NYBG | 183HRT333B


\$295/\$325

Exam on last class date.

LANDSCAPE PLANTS: BULBS TRACK 4


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


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


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

\$295/\$325

DISEASE IDENTIFICATION & MANAGEMENT TRACKS 1, 2, & 3


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

7 Wednesdays, 9/6–10/25 , (no class 9/20),
4:30–7:30 pm
Trevor Hall | NYBG | 181HRT481S


7 Saturdays, 9/9–11/4 , (no class 9/30 & 10/7),
10 am–1 pm
Kevin G. Kenney | NYBG | 181HRT481A

\$475/\$495


PLANT PROPAGATION I: BASIC PRINCIPLES TRACK 1

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

7 Mondays, 9/18–11/6 , (no class 10/9),
5:45–8:45 pm
Mobee Weinstein | NYBG | 181HRT411S


7 Tuesdays, 9/19–10/31 , 5:45–8:45 pm
Nick Storrs | NYBG | 181HRT411P


7 Tuesdays, 1/23–3/6 , 2–5 pm
Michael Ruggiero | NYBG | 183HRT411B


7 Mondays, 1/29–3/19 , (no class 2/19),
10:30 am–1:30 pm
Michael Ruggiero | NYBG | 183HRT411C

\$479/\$525

HORTICULTURAL TECHNIQUES:
LANDSCAPE GARDENING TRACK 2

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


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


6 Tuesdays, 3/13–4/24 , (no class evening on 3/27),
4:30–7:30 pm, and Tuesday, 3/27, 10 am–4 pm,
(Rain Date: Wednesday, 3/28)
Mobee Weinstein | NYBG | 183HRT311P

\$455/\$495

NURSERY & GREENHOUSE MANAGEMENT TRACK 1


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


 Prerequisite: *Introduction to Plant Science*

8 Tuesdays, 10/3–11/28 , (no class 11/7),
4:30–7:05 pm
Plus an all-day field trip Friday, 11/3, 8 am–4 pm
Marc Hachadourian | NYBG | 182HRT491S

\$549/\$605

LANDSCAPE MANAGEMENT TRACK 2


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


10 Wednesdays, 10/4–12/13 , 1:30–4 pm,
1 Tuesday, 11/21, 2–4 pm,
Kurt Morrell | NYBG | 182HRT443S

\$579/\$635

WEED IDENTIFICATION & MANAGEMENT TRACK 2


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

 Prerequisite: *Introduction to Plant Science*

5 Wednesdays, 10/4–11/1 , 5–8 pm
David Laswell | NYBG | 182HRT482S

\$355/\$395

HORTICULTURAL TECHNIQUES:
GREENHOUSE PRACTICES TRACK 1

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

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

6 Thursdays, 2/1–3/8 , 4:30–7:30 pm
Michael Ruggiero | NYBG | 183HRT312S

\$359/\$395

BASIC DESIGN AND INSTALLATION OF IRRIGATION SYSTEMS TRACK 2

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

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

\$295/\$329

STARTING A SMALL LANDSCAPING BUSINESS TRACK 2

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

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

\$329/\$369


PLANT PROPAGATION II: APPLICATIONS

 Exam on last class date.



TRACK 1

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

 Prerequisite: *Plant Propagation I*

4 Mondays, 1/22–2/12, 5–8 pm, Plus an all-day field trip TBA, 8 am–4 pm
Mobee Weinstein | NYBG | 183HRT412S

4 Tuesdays, 1/23–2/13, 5–8 pm, Plus an all-day field trip TBA, 8 am–4 pm
Mobee Weinstein | NYBG | 183HRT412A

\$395/\$435


MATHEMATICS FOR HORTICULTURISTS TRACK 2

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

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

\$149/\$165

PRUNING PRINCIPLES AND PRACTICES TRACKS 2 & 3

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

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

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

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


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

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

\$385/\$425

 Exam on last class date.

TREE MANAGEMENT TRACKS 2 & 3


Explore a holistic approach to keeping trees healthy and vigorous. Topics include planting and transplanting, pruning, fertilization, root system management, common problems, tree defenses, and lightning protection. Samples of tree problems, supplies, and tools are exhibited.  Prerequisite: *Pruning Principles and Practices* and *Soil Science II*

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

\$335/\$369

WINTER TREE IDENTIFICATION TRACK 3

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

 Prerequisite: *Introduction to Plant Science*

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

\$295/\$325


CHAINSAWS: USE, SAFETY, AND MAINTENANCE TRACK 3

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

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

\$145/\$159

ANNUAL AND PERENNIAL GARDEN MAINTENANCE TRACK 4

Learn how to manage annual and perennial gardens using a variety of in-season and post-season maintenance practices. Topics include soil and weed management, watering, basic pest identification and control, and seasonal clean-up. Develop a management plan for a small perennial garden.  Prerequisites: *Soil Science I* and *Plants for Landscaping or Landscape Plants: Perennials*

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

\$195/\$215

ENTOMOLOGY

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

6 Mondays, 2/5–3/19 (no class 2/19), 12–3 pm
Tam Nguyen | NYBG | 183HRT480S

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

\$355/\$395



CERTIFICATION EXAMS

30-HOUR PREPARATION FOR PESTICIDE APPLICATOR CERTIFICATION EXAMINATION

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

4 Tuesdays, 9/26–10/17, and 4 Thursdays, 9/28–10/19, 4:15–8:45 pm
Don Gabel | NYBG | 181HRT357P

4 Tuesdays, 1/2–1/23, and 4 Thursdays, 1/4–1/25, 4:15–8:45 pm
Shawn Spencer | NYBG | 183HRT357S

\$715/\$785

ISA ARBORIST CERTIFICATION EXAM PREPARATION COURSE

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

Saturday, 11/4, 9 am–5:45 pm
Julian Picciano & Wayne Cahilly | NYBG | 182HRT150

NYBG or ISA Members \$189/Non-Member \$209

ISA ARBORIST CERTIFICATION EXAM

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

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

ASHS-CERTIFIED HORTICULTURIST EXAM

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

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

HORTICULTURAL THERAPY



Family: Magnoliaceae

Species: *Liriodendron tulipifera*

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

Matthew C. Pace 539 28 May 2010

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

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

THE CERTIFICATE PROGRAM

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

Upon completion of the program, students will:

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

CERTIFICATE REQUIREMENTS

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

COURSE	CODE	HOURS	PAGE
Introduction to Horticultural Therapy	THR 301	15	17
Horticultural Therapy for Exceptional Youth	THR 402 P	15	17
Horticultural Therapy for Physical Rehabilitation	THR 403 P	15	17
Horticultural Therapy for the Aging Population	THR 401 P	15	41
Horticultural Therapy in Behavioral Health Settings	THR 404 P	15	18
Horticultural Therapy Methods and Materials	THR 406 P	15	18
Fundamentals of Gardening	GAR 301	12	18
Activities Analysis for Horticultural Therapy	THR 407 P	15	18
Introduction to Plant Science	HRT 300	16	11
Plant Propagation I: Basic Principles	HRT 411 P	18	13
Garden Design for Special Populations	THR 408 P	15	18
Horticultural Therapy Program Management	THR 409 P	15	18
TOTAL REQUIRED HOURS		189	

*Courses offered in the Spring–Summer Catalog

P Courses with a prerequisite before you can register



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

GET NYBG CERTIFIED

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

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

COLLEGE CREDIT RECOMMENDATION

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

The Horticultural Therapy Certificate Program is accredited by the American Horticultural Therapy Association (AHTA). Horticultural Therapy courses are eligible for college credit and can be applied toward voluntary Professional Registration through the AHTA. See page 25 for more information.



"Thanks to the expertise of the outstanding NYBG instructors who are actively working in the profession, I've been able to expand my job to include working with teens with autism and designing a Memory Tour for visitors with dementia and their caregivers. The Horticultural Therapy Program has added a meaningful dimension to my career."

—JOANNE D'AURIA, Brooklyn Botanic Garden, 2017 Graduate

THE CLASSES

INTRODUCTION TO HORTICULTURAL THERAPY

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

2 Saturdays, 9/16 & 9/23, & 1 Sunday, 10/1,
10 am–3:30 pm

Anne Meore, HTR | NYBG | 181THR301A

3 Wednesdays, 1/3–1/17, 10 am–3:30 pm

Matthew Wichrowski, HTR | NYBG | 183THR301B

3 Saturdays, 3/3–3/17, 10 am–3:30 pm

Anne Meore, HTR | NYBG | 183THR301D

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

HORTICULTURAL THERAPY FOR EXCEPTIONAL YOUTH

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

📌 Prerequisite: *Introduction to Horticultural Therapy*

4 Wednesdays, 10/4–10/25, 5:30–9:15 pm

Phyllis D'Amico, HTM | NYBG | 182THR402

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

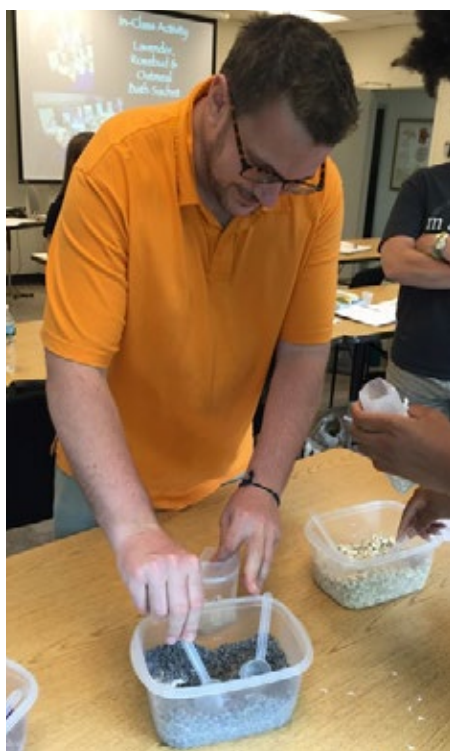
HORTICULTURAL THERAPY FOR PHYSICAL REHABILITATION

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

3 Saturdays, 10/28–11/18 (no class 11/11),
10 am–3:30 pm

Matthew Wichrowski, HTR | NYBG | 182THR403

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



HORTICULTURAL THERAPY FOR THE AGING POPULATION

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

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

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

HORTICULTURAL THERAPY IN BEHAVIORAL HEALTH SETTINGS

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

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

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

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.

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

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

\$295/\$325 Certificate Requirement

ACTIVITIES ANALYSIS FOR HORTICULTURAL THERAPY

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

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

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

HORTICULTURAL THERAPY METHODS AND MATERIALS

Evaluate tools, equipment, structures, and techniques used by participants in horticultural therapy activities. Design and construct adaptive tools and assistive devices through problem-solving activities. Expand your plant-selecting skills for specific therapeutic programming needs as you explore the collections and gardens at NYBG. Learn preventive approaches to safety in all horticultural therapy settings. Please bring lunch. 📌 Prerequisites: *Horticultural Therapy for Physical Rehabilitation* (or approval of the Program Coordinator)

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

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

HORTICULTURAL THERAPY PROGRAM MANAGEMENT

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

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

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



LANDSCAPE DESIGN



Family: Pinaceae

Species: *Pinus palustris*

Collector's Field Notes: United States. North Carolina. Carteret Co. Between Morehead City and Swansboro, Croatan National Forest, N of Route 24, along Pringle Road. Mixed forest.

Tree. 12 m tall, the trunk 22 cm diam. Sample preserved in silica gel at NY.

Daniel Atha 10034 4 Apr 2011

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

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

THE CERTIFICATE PROGRAM

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

Upon completion of the program, students will:

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

CERTIFICATE REQUIREMENTS

COURSE	CODE	HOURS*	PAGE
TIER 1 – INTRODUCTORY CLASSES			
Landscape Design History	LAN 301	24	21
Graphics I	LAN 311	24	21
Landscape Measurement	LAN 340 P	12	21
Landscape Plants: Fall Trees and Shrubs	HRT 331 P	12	12
Landscape Plants: Spring Trees and Shrubs**	HRT 334 P	12	—
Plants for Landscaping	HRT 358	16	12
TIER 2			
Landscape Design I: Site Analysis and Schematic Design	LAN 401 P	24	21
Landscape Design II: Design Development	LAN 402 P	24	21
Estimating	LAN 380 P	9	22
Graphics II	LAN 411 P	24	22
Grading	LAN 421 P	24	22
Site Materials and Details	LAN 422 P	24	21
TIER 3			
Drainage	LAN 425 P	12	22
Graphics III	LAN 417 P	24	22
Landscape Design III: Planting Design	LAN 403 P	24	22
Professional Practice for Landscape Designers	LAN 485 P	12	22
Landscape Design IV: Design and Construction	LAN 520 P	33	22
Portfolio and Presentation Skills	LAN 555 P	15	22
TOTAL REQUIRED HOURS		349	

*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.



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



**GET NYBG
CERTIFIED**

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

Susan Cohen, Program Coordinator
Nancy Gerlach-Spriggs, Program Advisor
William Harris Einhorn, Program Advisor

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



THE CLASSES

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

9 Tuesdays, 1/9–3/6 (no class 2/22), 10 am–1 pm
Linda Chisholm | NYBG | 183LAN301C

\$595/\$655 *Certificate Requirement*

LANDSCAPE MEASUREMENT

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

4 Saturdays, 9/9–10/14, (no class 9/30 & 10/7), 10 am–1 pm
Wayne Cahilly | NYBG | 181LAN340C

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

\$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 Wednesdays, 10/4–11/29, 10 am–1 pm
William Harris Einhorn, RLA | NYBG | 181LAN311A

8 Thursdays, 9/28–11/30 (no class 11/2 & 11/23), 2–5 pm
Gustavo Capparelli | NYBG | 181LAN311B

8 Tuesdays, 1/9–2/27, 10 am–1 pm
William Harris Einhorn, RLA | NYBG | 183LAN311D

8 Thursdays, 1/18–3/15 (no class 2/22), 2–5 pm
Gustavo Capparelli | NYBG | 183LAN311E

\$595/\$655 *Certificate Requirement*

LANDSCAPE DESIGN I: SITE ANALYSIS AND SCHEMATIC DESIGN

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

8 Thursdays, 11/30–2/1, (no class 12/21 & 12/28), 10 am–1 pm
Nancy Gerlach-Spriggs | NYBG | 182LAN401P

\$575/\$635 *Certificate Requirement*

GRAPHICS II

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

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

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

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

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

\$595/\$655 *Certificate Requirement*

LANDSCAPE DESIGN II: DESIGN DEVELOPMENT

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

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

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

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

\$575/\$635 *Certificate Requirement*

SITE MATERIALS AND DETAILS

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

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


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

\$575/\$635 *Certificate Requirement*

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 with SketchUp are required.  Prerequisite: *Graphics II*


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

8 Wednesdays, 1/10–2/28, 10 am–1 pm
William Harris Einhorn, RLA | NYBG | 183LAN417B

\$595/\$655 *Certificate Requirement*

LANDSCAPE DESIGN III: PLANTING DESIGN

Through a series of design assignments, learn how to prepare planting plans for a variety of projects. Explore the significance of site conditions as well as plant form, texture, color, and ecological associations. Learn to develop plans that are practical, appropriate, and aesthetically satisfying.


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

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

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

\$575/\$635 *Certificate Requirement*

GRADING


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

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

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

\$575/\$635 *Certificate Requirement*


PROFESSIONAL PRACTICE FOR LANDSCAPE DESIGNERS

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

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

\$295/\$325 *Certificate Requirement*

ESTIMATING

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


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

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

\$219/\$239 *Certificate Requirement*

 Exam on last class date.


LANDSCAPE DESIGN IV: DESIGN AND CONSTRUCTION

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

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

\$829/\$909 *Certificate Requirement*


DRAINAGE

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

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

\$295/\$325 *Certificate Requirement*

PORTFOLIO AND PRESENTATION SKILLS

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

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

\$379/\$415 *Certificate Requirement*



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.

Academic Policies & Procedures (cont.)

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 apl.org

Department of Environmental Conservation (DEC)

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

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

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	\$395	\$296.25	\$197.50	\$98.75	\$0

SUBSEQUENT QUARTERS

	During the first week	During the second week	During the third week	After the third week
Soil Science I	\$341.25	\$227.50	\$113.75	\$0
Plant Propagation I: Basic Principles	\$359.25	\$239.50	\$119.75	\$0
Horticultural Techniques: Greenhouse Practices	\$269.25	\$179.50	\$89.75	\$0
Plant Propagation II: Applications	\$296.25	\$197.50	\$98.75	\$0
Insect Pests of Landscape Plants	\$326.25	\$217.50	\$108.75	\$0
Soil Science II	\$296.25	\$197.50	\$98.75	\$0
Disease Identification and Management	\$356.25	\$237.50	\$118.75	\$0
Nursery and Greenhouse Measurement	\$411.75	\$274.50	\$137.25	\$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	\$395	\$296.25	\$197.50	\$98.75	\$0

SUBSEQUENT QUARTERS

	During the first week	During the second week	During the third week	After the third week
Soil Science I	\$341.25	\$227.50	\$113.75	\$0
Pruning Principles and Practices	\$288.75	\$192.50	\$96.25	\$0
Horticultural Techniques: Landscape Gardening	\$341.25	\$227.50	\$113.75	\$0
Basic Design and Irrigation Systems	\$221.25	\$147.50	\$73.75	\$0
Mathematics for Horticulturalists	\$111.75	\$74.50	\$37.25	\$0
Starting a Small Landscaping Business	\$246.75	\$164.50	\$82.25	\$0
Tree Management	\$251.25	\$167.50	\$83.75	\$0
Insect Pests of Landscape Plants	\$326.25	\$217.50	\$108.75	\$0
Weed Identification and Management	\$266.25	\$177.50	\$88.75	\$0
Soil Science II	\$296.25	\$197.50	\$98.75	\$0
Disease Identification and Management	\$356.25	\$237.50	\$118.75	\$0
Landscape Management	\$434.25	\$289.50	\$144.75	\$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	\$395	\$296.25	\$197.50	\$98.75	\$0

SUBSEQUENT QUARTERS	During the first week	During the second week	During the third week	After the third week
Soil Science I	\$341.25	\$227.50	\$113.75	\$0
Landscape Plants: Fall Trees and Shrubs	\$221.25	\$147.50	\$73.75	\$0
Tree Management	\$251.25	\$167.50	\$83.75	\$0
Winter Tree Identification	\$221.25	\$147.50	\$73.75	\$0
Chainsaws: Use, Safety, and Maintenance	\$108.75	\$72.50	\$36.25	\$0
Insect Pests of Landscape Plants	\$326.25	\$217.50	\$108.75	\$0
Tree Climbing for Arborists	\$296.25	\$197.50	\$98.75	\$0
Landscape Plants: Spring Trees and Shrubs	\$221.25	\$147.50	\$73.75	\$0
Soil Science II	\$296.25	\$197.50	\$98.75	\$0
Pruning Principles and Practices	\$288.75	\$192.50	\$96.25	\$0
Disease Identification and Management	\$356.25	\$237.50	\$118.75	\$0
Landscape Plants: Conifers	\$221.25	\$147.50	\$73.75	\$0
Urban Tree Care	\$221.25	\$147.50	\$73.75	\$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	\$395	\$296.25	\$197.50	\$98.75	\$0

SUBSEQUENT QUARTERS	During the first week	During the second week	During the third week	After the third week
Soil Science I	\$341.25	\$227.50	\$113.75	\$0
Landscape Design History	\$446.25	\$297.50	\$148.75	\$0
Landscape Plants: Broadleaved Evergreens	\$164.25	\$109.50	\$54.75	\$0
Graphics I	\$446.25	\$297.50	\$148.75	\$0
Plants for Landscaping	\$296.25	\$197.50	\$98.75	\$0
Landscape Plants: Bulbs	\$221.25	\$147.50	\$73.75	\$0
Landscape Plants: Spring Trees and Shrubs	\$221.25	\$147.50	\$73.75	\$0
Landscape Plants: Spring Perennials	\$164.25	\$109.50	\$54.75	\$0
Landscape Plants: Annuals	\$146.25	\$97.50	\$48.75	\$0
Tropical Plants	\$266.25	\$177.50	\$88.75	\$0
Landscape Plants: Grasses	\$164.25	\$109.50	\$54.75	\$0
Landscape Plants: Summer and Fall Perennials	\$164.25	\$109.50	\$54.75	\$0
Sustainable Garden Design	\$363.75	\$242.50	\$121.25	\$0
Annual and Perennial Garden Maintenance	\$146.25	\$97.50	\$48.75	\$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	\$365.00	\$273.75	\$182.50	\$91.25	\$0
Horticultural Therapy for Exceptional Youth	\$389.00	\$291.75	\$194.50	\$97.25	\$0
Horticultural Therapy for Physical Rehabilitation	\$389.00	\$291.75	\$194.50	\$97.25	\$0
Horticultural Therapy for the Aging Population	\$365.00	\$273.75	\$182.50	\$91.25	\$0
Horticultural Therapy in Behavioral Health Settings	\$389.00	\$291.75	\$194.50	\$97.25	\$0
Activities Analysis for Horticultural Therapy	\$395.00	\$296.25	\$197.50	\$98.75	\$0
Garden Design for Special Populations	\$365.00	\$273.75	\$182.50	\$91.25	\$0
Horticultural Therapy Methods and Materials	\$395.00	\$296.25	\$197.50	\$98.75	\$0
Horticultural Therapy Program Management	\$389.00	\$291.75	\$194.50	\$97.25	\$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	\$221.25	\$147.50	\$73.75	\$0
Introduction to Plant Science	\$296.25	\$197.50	\$98.75	\$0
Plant Propagation I: Basic Principles	\$359.25	\$239.50	\$119.75	\$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	\$595	\$446.25	\$297.50	\$148.75	\$0

SUBSEQUENT QUARTERS

	During the first week	During the second week	During the third week	After the third week
Graphics I	\$446.25	\$297.50	\$148.75	\$0
Plants for Landscaping	\$296.25	\$197.50	\$98.75	\$0
Landscape Design I: Site Analysis & Schematic Design	\$431.25	\$287.5	\$143.75	\$0
Graphics II	\$446.25	\$297.50	\$148.75	\$0
Landscape Design II: Design Development	\$431.25	\$287.5	\$143.75	\$0
Site Materials and Details	\$431.25	\$287.5	\$143.75	\$0
Landscape Plants: Spring Trees and Shrubs	\$221.25	\$147.50	\$73.75	\$0
Landscape Measurement	\$221.25	\$147.50	\$73.75	\$0
Graphics III	\$446.25	\$297.50	\$148.75	\$0
Landscape Design III: Planting Design	\$431.25	\$287.5	\$143.75	\$0
Landscape Plants: Fall Trees and Shrubs	\$221.25	\$147.50	\$73.75	\$0
Grading	\$431.25	\$287.5	\$143.75	\$0
Estimating	\$164.25	\$109.50	\$54.75	\$0
Professional Practice for Landscape Designers	\$221.25	\$147.50	\$73.75	\$0
Landscape Design IV: Design and Construction	\$621.75	\$414.50	\$207.25	\$0
Drainage	\$221.25	\$147.50	\$73.75	\$0
Portfolio and Presentation Skills	\$284.25	\$189.50	\$94.75	\$0

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

The LuEsther T. Mertz Library keeps Adult Education required reading on reserve, 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
Bronx, New York 10458-5126
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NYBG Herbarium specimen: *Juniperus virginiana*



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



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