

classes

Increase your tree and landscape knowledge! Our courses, which offer CEUs for arborists and landscape architects, keep you at the forefront of your profession!



Morris Arboretum
UNIVERSITY of PENNSYLVANIA



School of Arboriculture



fall 2014 classes



Morris Arboretum
UNIVERSITY of PENNSYLVANIA



School of Arboriculture

The Morris Arboretum of the University of Pennsylvania

is an educational institution that promotes an understanding of the important relationships between people and plants. Founded in 1887 as the private estate of John and Lydia Morris, brother and sister, the Arboretum today is an interdisciplinary center that integrates art, science, and the humanities. It is the official arboretum of the Commonwealth of Pennsylvania. It is listed in the National Register of Historic Places and is accredited by the American Alliance of Museums.

The 167-acre public garden, located in the Chestnut Hill section of Philadelphia, provides an idyllic setting for historical architectural features as well as provides a fine collection of contemporary sculpture. Specialty garden areas include the Rose Garden, Swan Pond, English Park, Asian gardens, meadows, and woodlands.

More than 12,000 labeled woody plants from around the world grow here along with superior plants for urban and community landscapes. The Arboretum provides internships, school tours, adult and professional education, lectures, and other special events.

The School of Arboriculture at Morris Arboretum

offers high-quality courses designed for arborists, landscape architects and designers, urban foresters, land managers, and other tree care professionals. Classes cover a wide range of topics including climbing techniques and safety, tree identification, pest and disease problems, tree health and land management practices. The School of Arboriculture is committed to providing first-rate educational and professional development opportunities led by world-renowned instructors and experts in the field.

International Society of Arboriculture Continuing Education Units

The Arboretum's professional training courses carry International Society of Arboriculture Continuing Education Units. If you are an ISA certified arborist and need to maintain certification by taking 30 credits over a three-year period, you may want to sign up for classes at the Arboretum. If you have questions or need more information, please contact Jan McFarlan at (215) 247-5777, ext. 156 or jlm@upenn.edu. The ISA category code for CEUs is as follows: Science=S, Practice=P, Management=M.

Introductory Tree Climbing

Zac Shechtman

Owner, Shechtman Tree Care

Rob Thigpen

Foreman, Shechtman Tree Care and ISA Penn-Del Chapter Climbing Champion

This class provides an introduction to tree climbing and features the opportunity to have supervised climbing instruction in trees. It is ideal for tree companies looking to advance promising groundsmen, or for gardeners and landscapers looking to add new skills. Effective methods for climbing trees will be demonstrated by instructors and practiced by students. Safety rules will be reviewed and stressed. Students will learn how to tie critical knots regularly used by arborists. Included in the fee, each student will receive a copy of *The Tree Climbers Companion* by Jeff Jepson, a great resource for climbers. Bring an arborist's rope and saddle, a hard hat, gloves, safety glasses, and insect repellent to the class. Wear boots, long pants, and dress for the weather. **This course carries 18 CEUs for ISA certified arborists (S=0, P=18, M=0). We will meet at Bloomfield Farm. Look for the paved road across Northwestern Avenue from the public garden entrance. Park in the lot and follow the signs to the Horticulture Center.**

**Wednesday, Thursday, Friday
October 15, 16, 17
9 a.m.–4 p.m.**

Fee: \$525 (includes lunches)

Pruning Deciduous Trees

Iana Turner

Horticulturist, Morris Arboretum

Pruning young trees for healthy structural development is cost-effective care. This class will explain how recent research on pruning has changed both practice and understanding. Pruning strategies for trees of different ages will be stressed to maximize tree longevity and structural health. In addition, techniques will be discussed to help tree managers evaluate the arboricultural work of others under their supervision. The morning will consist of a lecture and demonstration. The afternoon will feature supervised, hands-on pruning. Please bring a hand pruner and a small pruning saw. **This course carries 4.5 CEUs for ISA certified arborists (S=1, P=3, M=0.5).**

**Wednesday, October 15
9 a.m.–3 p.m.
Raindate: Friday, October 17
9 a.m.–3 p.m.**

Fee: \$120 (includes lunch)



Native Wildflower Meadows: Let's Get Real

Larry Weaner

*Principal, Larry Weaner Landscape Design
Associates*

Demand for native meadows, particularly as an alternative to lawns, is increasing. Unfortunately, few types of landscape plantings are more misunderstood than the native wildflower meadow, with many failures resulting from inadequate planning and the use of poorly adapted plants. Far better results can be obtained when the plants and processes used reflect the ecological character of our naturally occurring meadow communities. More than one-year wonders, meadows modeled on these ecosystems can provide long-term, easily managed landscapes that are home to wildlife and provide color and texture throughout the year. In this all-day, in-depth workshop, Larry Weaner will discuss the design, implementation, and management of native meadows, using a series of case studies featuring large and small-scale meadows as well as projects ranging in age from initial establishment to more than 10 years in existence. He will also illustrate how garden design principles can be used in the meadow for subtle visual effect and to create graceful transitions to more formal garden areas. Larry Weaner has been creating native landscapes since 1977. He founded Larry Weaner Landscape Associates in 1982 and has gained a national reputation for combining ecological restoration with the traditions of garden design.



This course carries 5.5 CEUs for ISA certified arborists (S=2, P=1.5, M=2) and 6 CEUs for PA landscape architects.

Thursday, October 16
9 a.m.–4 p.m.

Fee: \$135 (includes lunch)

Understanding Tree Biology

David Tukey

Lecturer, Trainer, and Climber

Trees are dynamic systems of complex, interrelated biological processes. The better we understand these processes, the better we can promote tree health, beauty and longevity. After covering the basics of tree anatomy and biology, this workshop will consider a series of questions, including: how does a tree grow, transport nutrients, and defend against decay? Along the way, we will explore the impacts of tree care such as pruning and fertilizing, findings from recent research, and areas where science is less clear about how trees function. The presenter is well versed in both the science and art of trees, and the workshop will have practical implications for arborists, both new and seasoned, while also enabling them to better explain their recommendations to clients. The information will also be useful for naturalists, master gardeners, owners of wood lots and members of shade tree commissions, among others. **This course carries 6 CEUs for ISA certified arborists. (S=2, P=2, M=2).** **We will meet at Bloomfield Farm. Look for the paved road across Northwestern Avenue from the public garden entrance. Park in the lot and follow the signs to the Horticulture Center.**

Saturday, October 18
9 a.m.–4 p.m.

Fee: \$135 (includes lunch)



Introductory Tree Climbing for Women

Rachel Brudzinski

Arborist, New York Botanical Garden, and ISA Michigan Tree Climbing Female State Champion, 2012

Women can be talented, successful climbers, even in a field traditionally dominated by men. This course, taught by ISA state champion tree climber, Rachel Brudzinski, will demonstrate climbing techniques geared to female climbers. It will also provide a basic understanding of tree biology that is critical for practicing arborists. The class will focus on teaching women with a passion for arboriculture how to create and maintain a safe working environment, develop fundamental arboricultural skills, and learn the professional techniques necessary develop an approach for climbing a tree. You will learn some of the latest professional tree climbing advancements, and have the opportunity to

participate in supervised in-tree climbing. Novice to advanced women climbers are welcome. Please wear appropriate clothing—long sleeves, flexible and durable pants, and high ankle/light weight footwear. If you have regulation climbing gear including a rope, harness, hard hat with chin strap, and eye protection, please bring it. You may also want to bring gloves. **We will meet at Bloomfield Farm. Look for the paved road across Northwestern Avenue from the public garden entrance. Park in the lot and follow the signs to the Horticulture Center. This course carries 6 CEUs for ISA certified arborists. (S=0, P=6, M=0).**

Saturday, October 25

9 a.m.–4 p.m.

Raindate: Saturday, November 1

Fee: \$125 (includes lunch)

Advancing Your Climbing Skills for Women

Rachel Brudzinzi

*Arborist, New York Botanical Garden, and
ISA Michigan Tree Climbing Female State
Champion, 2012*

This course is designed for intermediate to advanced female climbers seeking to experience a deeper understanding of innovative arboriculture techniques. Students will learn essential knots, daily gear maintenance, and safety regulations mandated for climbing arborists. During the course, students will have a minimum of six hours of personal in-tree climbing instruction. This class will focus on climbing skills and various ascension and positioning techniques meant to further your comfort within the canopy. Prerequisite: Students must have previously taken Introductory Tree Climbing for Women, or have a minimum of 30 hours of in-tree experience. (Students can register for both Intro. and Advanced courses in the same weekend.) Please wear appropriate clothing, including long sleeves, flexible and durable pants, and high ankle/light weight footwear. If you have regulation climbing gear including a rope, harness, hard hat with chin strap, and eye protection, please bring it. You may also want to bring gloves. **We will meet at Bloomfield Farm. Look for the paved road across Northwestern Avenue from the public garden entrance. Park in the lot and follow the signs to the Horticulture Center. This course carries 6 CEUs for ISA certified arborists (S=0, P=6, M=0).**

Sunday, October 26

9 a.m.–4 p.m.

Raindate:

Sunday, November 2

Fee: \$125 (includes lunch)

Single Rope Techniques

Rob Thigpen

*Foreman, Shechtman Tree Care and ISA
Penn-Del Chapter Climbing Champion*

Climbing techniques for arborists have advanced significantly in the last 20 years, with the adaptation of practices that were first developed by rock climbers and cave explorers. These techniques have made tree climbing easier and safer, and have brought a greater degree of professionalism to arboriculture. The use of throw balls to advance the lead into the tree canopy has introduced the use of a single line as a means of ascension into a tree rather than the more traditional double line technique. The use of one line in climbing is known as Single Rope Technique (SRT) and has become a skill that has proved invaluable to many working arborists. Please join us for a day with one of the masters of SRT, Rob Thigpen of Shechtman Tree Experts. This course will include some in-the-tree climbing, and is open only to arborists with field experience. Personal Protection Equipment (PPE) and individual climbing gear are mandatory. **We will meet at Bloomfield Farm. Look for the paved road across Northwestern Avenue from the public garden entrance. Park in the lot and follow the signs to the Horticulture Center. This course carries 6 CEUs for ISA certified arborists (S=0, P=6, M=0).**

Tuesday October 28

9 a.m.–4 p.m.

Fee: \$150 (includes lunch)





Woodland Management Workshop

Ken LeRoy

Arborist, John B. Ward & Co Tree Experts

Andrew Kirkpatrick

Ecological Landscape Designer, Native REALM, LLC

Woodlands, especially in urban and suburban areas, face many pressures. Invasive exotic plant species and other pests, including earthworms and deer, threaten the health and longevity of our native ecosystems. Resolving the problems faced in wooded natural areas would be cost prohibitive, but there are smaller scale interventions that can still have a positive lasting effect on the ecosystem. This day-long workshop will explore techniques for successful woodland management solutions, including developing priorities for eliminating exotic pests, methods and tools for invasive removal, and planning for future monitoring and stewardship. **We will meet at the Horticulture Center at Bloomfield Farm. Look for the paved road across Northwestern Avenue from the public garden entrance. Park in the lot and follow**

the signs to the Horticulture Center. This course carries 5.5 CEUs for ISA certified arborists (S=2, P=1.5, M=2).

**Tuesday, November 4
9 a.m.–4 p.m.**

Fee: \$135 (includes lunch)

Advancing Your Climbing Skills: Pruning, Rigging, and Removal with a Crane

Zac Shechtman

Owner, Shechtman Tree Care

Rob Thigpen

Foreman, Shechtman Tree Care and ISA Penn-Del Chapter Climbing Champion

This class, taught by experienced professionals, consists of three days of training in advanced arboricultural techniques. Instruction will cover the theory and practice of large tree pruning, including a component on tree physiology, structural pruning, and the latest ANSI standard. Students will gain experience in proper rigging techniques to safely lower wood from a standing trunk. Safe felling techniques and proper use of the latest equipment, as well as the critical knots involved will be demonstrated. The last day will consist of instruction and demonstration of the safe use of a truck mounted crane for tree removal. Each student will receive a copy of *How to Fell a Tree* by Jeff Jepson, a book with step-by-step methods for taking down a tree, and a copy of the ANSI Z133.1 standards. **This course carries 17.25 CEUs for ISA certified arborists (S=3, P=11.25, M=3). We will meet at the Horticulture Center at Bloomfield Farm. Look for the paved road across Northwestern Avenue from the public garden entrance. Park in the lot and follow the signs to the Horticulture Center.**

**Wednesday, Thursday, Friday
November 5, 6, 7
9 a.m.–4 p.m.**

Fee: \$525 (includes lunches)



GPS Tree Mapping and GIS Solutions for Arborists

Andrew Kirkpatrick
Native REALM. LLC

With the advent of municipal carbon sequestration programs, street tree inventories, and planning for emerald ash borer, mapping trees and delivering high quality geospatial products for clients is more important than ever. With a myriad of GIS hardware and software options, it can be daunting to choose the right software application and equipment that fits your budget. This day-long workshop will explore different GIS solutions including ESRI's ArcGIS software suite, including the Collector mobile app, the open-source software Quantum GIS, Open Data Kit Collect, and the possible equipment combinations from iPads to Androids to dedicated units from Trimble. In the morning, we will explore software options and do some simple exercises in ArcGIS and QGIS. The afternoon will be spent in the field practicing different inventory techniques with mobile devices. Participants should bring their laptops pre-loaded with Quantum GIS, available at

www.qgis.org and mobile devices including tablets and smart phones. Android users should download ODK Collect from <http://opendatakit.org/use/collect/>. Andrew is a former Morris Arboretum urban forestry intern and co-founder of Native REALM, an ecosystem services design venture, specializing in urban and natural resource management.

This course carries 6 CEUs for ISA certified arborists (S=2, P=2, M=2) and 6 CEUs for PA landscape architects.

**Tuesday, November 11
9 a.m.–4 p.m.**



Restoration Ecology

William Young

President, Young Environmental Services

Restoration ecology has emerged as a unique field of ecology in the last 25 years. It can be thought of as the practice of renewing and restoring degraded, damaged, or destroyed ecosystems by active human intervention, design, and action. In this class, we will discuss some of the background and techniques involved in approaching restoration projects. We will look at the process of site evaluation, natural resource inventory and assessment, soils and contaminants, as well as various restoration projects. This course will be of particular interest to land managers, designers, landscape contractors and anyone

who is charged with the renewal of a degraded site. Mr. Young is past President of the New Jersey Native Plant Society, as well as a lecturer at the University of Pennsylvania. He has an extensive contracting background with a wide variety of wetland restoration projects throughout the United States. **This course carries 4 CEUs for ISA certified arborists (S=2, P=1, M=1), and 4 CEUs for PA landscape architects.**

**Friday, November 14
9 a.m.–2 p.m.**

Fee: \$125 (includes lunch)

Upcoming Conference

Join us on January 8 and 9 at Montgomery County Community College in Blue Bell, PA for the 26th annual winter landscape design symposium. This two-day symposium is an in-depth examination of state of the art of naturalistic landscape design. Speakers represent a diverse and accomplished group of designers, horticulturists, ecologists, and artists in an interactive and informal setting. Continuing education units for landscape architects will be available. Brochures will be available in November. To request a brochure, please call (215) 247-5777, ext. 125 or e-mail jl@upenn.edu. Sign up online at online.morrisarboretum.org/LDS.

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general class information

The Morris Arboretum is located in the Chestnut Hill section of Philadelphia. For further information or directions, call (215) 247-5777 or check the Arboretum website at: www.morrisarboretum.org. Go to “Plan Your Visit.”

The Green Choice

We need your input. In the interest of sustainability, if you would like to opt out of receiving our course brochure, please e-mail us at education@morrisarboretum.org with the subject line, “Opt out.” We always offer our spring and fall course brochures on our website under the Education tab.

Location of Classes

All classes will be held at the George D. Widener Visitor Center unless otherwise noted.

Parking areas may be reached by entering the Arboretum off of Northwestern Avenue. Students should arrive at least ten minutes before the start of the class to allow time to check in.

Please note: Parking adjacent to the Visitor Center is sometimes at full capacity on nice weather weekends. If you visit after noon, you may be required to park at the bottom of the hill and be shuttled into the garden.

If you are a person with a disability and require an accommodation to participate in classes, please contact Jan McFarlan at (215) 247-5777, ext. 156, Monday through Friday, to discuss accommodation. For people who use TTY, please call PA Relay at 1-800-654-5984.

Refund and Cancellation Policy

In order to receive a refund for a class you must call (215) 247-5777, ext. 125 at least two business days before the class start date. There will be a \$5 processing fee associated with refunds. The Arboretum reserves the right to cancel any program if necessary. Refunds take approximately three to four weeks to process. There will be no refunds after a class begins.

Weather Information

In case of inclement weather conditions on the day of your class, please call the Education Department, (215) 247-5777, ext. 156, for information on possible cancellation or rescheduling of the class.

School of Arboriculture

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☐ My check or money order payable to the Morris Arboretum is enclosed.



The School of Arboriculture at Morris Arboretum offers high-quality courses taught by world-renowned instructors and experts in the field.

See inside for descriptions. Topics include:

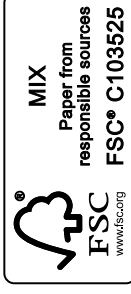
- Introductory Tree Climbing
- Native Wildflower Meadows
- Understanding Tree Biology
- Single Rope Techniques



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