



Classes  
and Programs  
at Phipps

# GROW

## EXPLORE

*Pennsylvania State Parks*

## DESIGN

*Giant Fantasy Flowers*

## EXPERIENCE

*Our New State-of-the-Art  
Kitchen*

MAY–AUGUST 2018



## Contents

- 1 Welcome
- 2 Certificate Programs
- 4 Certificate Classes
  - 4 Sustainable Horticulture, Landscape and Garden Design, and Native Plant Landscapes
  - 7 Floral Design
  - 10 Botanical Art and Illustration
- 15 Non-Certificate Classes
  - 15 Gardening and Botanical Crafts
  - 19 Culinary Arts
  - 21 Green and Healthy Living
- 23 Youth Educational Programs
- 26 Free Public Programs

### ASK DR. PHIPPS GARDENING TIPS

drphipps@phipps.conservatory.org  
412/665-2364

### CONNECT

- [phipps.conservatory.org](http://phipps.conservatory.org)
- [phippsconservatory](https://www.facebook.com/phippsconservatory)
- [phippsnews](https://twitter.com/phippsnews)
- [phippsconservatory](https://www.instagram.com/phippsconservatory)
- [phippsconservatory](https://www.youtube.com/phippsconservatory)
- [phippsnews](https://www.snapchat.com/add/phippsnews)
- [phippsisgreen](https://www.pinterest.com/phippsisgreen)

#### Our Mission

*To inspire and educate all with the beauty and importance of plants; to advance sustainability and promote human and environmental well-being through action and research; and to celebrate our historic glasshouse.*

### CONTACT

Phipps Education Department  
412/441-4442, ext. 3925  
[edu@phipps.conservatory.org](mailto:edu@phipps.conservatory.org)

### PHIPPS CONSERVATORY AND BOTANICAL GARDENS

One Schenley Park, Pittsburgh, PA 15213  
412/622-6914

#### HOURS

Monday–Thursday and  
Saturday–Sunday: 9:30 a.m.–5 p.m.  
Friday: 9:30 a.m.–10 p.m.

#### ADMISSION

Members | Free  
Adults | \$17.95  
Seniors and students | \$16.95  
Children 2–18 | \$11.95  
Children under 2 | Free

### PHIPPS GARDEN CENTER

1059 Shady Ave., Pittsburgh, PA 15232  
412/441-4442

#### HOURS

The Shop in the Park  
Tuesday–Saturday: 11 a.m.–4 p.m.

#### LIBRARY

Monday–Thursday: 10 a.m.–9 p.m.  
Friday–Saturday: 10 a.m.–4 p.m.

#### CREDITS

Editor: Jenna Bodnar  
Designer: Randie Snow Design  
Cover Photo © Paul g. Wiegman  
Culver's root (*Veronicastrum virginicum*)  
Table of Contents Photo © Paul g. Wiegman  
Japanese stewartia (*Stewartia pseudocamellia*)  
© 2018 Phipps Conservatory and Botanical Gardens

Grow is printed with plant-based inks on 100 percent post-consumer recycled paper.

# Let Your Inspiration Grow!

Phipps Conservatory and Botanical Gardens is excited to offer a diverse assortment of specialized classes for students of all levels and interests. All of our instructors are accomplished in their fields and provide a friendly, welcoming and relaxing environment for you to learn and realize your full potential.

For more details about our programs or to receive personalized class recommendations from our helpful staff, please feel free to contact us at **412/441-4442, ext. 3925** or **[edu@phipps.conservatory.org](mailto:edu@phipps.conservatory.org)**.

*Please remember to register early as most classes have capacity limitations.*

### WEATHER HOTLINE

In the event of inclement weather, call **412/441-4442, ext. 3200** to receive information on the status of classes. A message will be available after 8 a.m. for morning sessions and after 4 p.m. for evening sessions.

### GIFT CERTIFICATES

Education gift certificates are perfect for holidays, birthdays, graduations and anniversaries. They are available in any amount and can be mailed to you or the recipient. For more information, please call **412/441-4442, ext. 6305**.

### CERTIFICATE PROGRAMS (P. 2–14)

Phipps' certificate programs offer an extensive course of study for those who wish to work toward an advanced level within a continuing education format. These classes are open to everyone and can either be taken as stand-alone classes or combined to earn a certificate of achievement. There is no separate enrollment for the certificate programs. Simply sign up for classes and, starting with the first one, we will keep records of all courses that you complete.

### NON-CERTIFICATE CLASSES (P. 15–22)

Home gardeners, hobbyists, nature lovers, working professionals and the plant-curious — our classes are designed for you! Browse our stand-alone offerings to explore a whole new world of possibilities.





# Certificate Programs

Photo © Paul g. Wiegman  
Anise hyssop (*Agastache* sp.)

## Attendance Policy

Attendance at all class sessions is strongly encouraged. In order to receive a certificate of completion for a class, you must attend 75% or more of the class sessions. You may attend missed sessions the next time a class is offered; however, you are responsible for all material fees unless Phipps is notified of planned absences 48 hours before the class.

To register, learn more or obtain additional certificate program guidelines, please visit [phipps.conservatory.org](http://phipps.conservatory.org) or call 412/441-4442, ext. 3925.

To attend an adult education class, you must be at least 18 or accompanied by a guardian.

## Sustainable Horticulture

The Sustainable Horticulture Certificate program consists of core courses that include Basic and Advanced Horticulture, Soils, Diagnosing Plant Problems, and Botany for Gardeners. You will learn the best management practices necessary for gardening with minimal ecological impact, and how to protect soil health, water resources and air quality. You can choose from a series of electives that will enhance your understanding of sustainable practices. Learn how to use the land properly and create aesthetically pleasing gardens.

## Landscape and Garden Design

The Landscape and Garden Design Certificate program prepares you to apply basic design principles and techniques to create attractive, environmentally responsible landscapes. Using graphic skills and plant knowledge, you will work through the design process to develop a finished presentation plan.

## Native Plant Landscapes

In the Native Plant Landscapes Certificate program, you will take a series of courses designed to help you appreciate and use native plants, discover the importance of habitats and ecosystems, and explore how native plants can fit into your gardens.

## Floral Design

The Floral Design Certificate program offers the most extensive course of study available in the region, covering all aspects of floral design. In each class, you will learn the history and progression of floral design so that you understand how and why arrangements are done in a particular way. You will also build a strong foundation for enhancing your own creativity.

## Botanical Art and Illustration

In the Botanical Art and Illustration Certificate program, you will learn how to draw botanical subjects with scientific accuracy, artistry and mastery of technical methods. Using a basic knowledge of plant morphology, you will develop the skills you need to document plants in intricate detail. This program is designed for students who are interested in pursuing art for pleasure, and you can choose between two concentrations: watercolor or colored pencil. Both beginners and seasoned artists are welcome.



Photo © Paul g. Wiegman  
Red hot poker (Kniphofia uvaria)

## CERTIFICATE CLASSES

# Sustainable Horticulture, Landscape and Garden Design, and Native Plant Landscapes

### WOODY PLANTS I: SHRUBS | Leslie Kaplan

Tuesdays: May 8, 15, 22 and 29 | 6:30 – 8:30 p.m.

Field trip: Tues., June 5

\$110 members | \$130 nonmembers

**May 8 and 15:** Phipps Garden Center in Mellon Park

**May 22 and 29:** Phipps Conservatory and Botanical Gardens, Botany Hall

**Objective:** To become proficient in the identification, cultural requirements and landscape use of a wide variety of hardy shrubs that perform well in western Pennsylvania

**Level:** Beginner to intermediate

**Prerequisite:** None

Woody plants form the backbone of the garden, and shrubs (a multi-stemmed variety) provide four-season interest in many forms. Discover their limitless possibilities! *Landscape and Garden Design Certificate core course and Sustainable Horticulture Certificate elective; PCH 10.0 | LA CES 10.0*

### LANDSCAPE DESIGN II: PRINCIPLES OF DESIGN | Acadia Klain

Thursdays: May 17, 24 and 31; June 7 | 7–9 p.m.

Field trip: Thurs., June 14 | 6–8 p.m.

\$110 members | \$130 nonmembers

Phipps Garden Center in Mellon Park

**Objective:** To understand and begin to apply the principles of aesthetics and design — including form, scale, rhythm, axis, color and texture — to landscapes

**Level:** Beginner to intermediate

**Prerequisite:** Landscape Graphics, Landscape Design I

Learn design principles in both two and three dimensions and reinforce your knowledge with exercises. Analyze the use of these design concepts in landscapes by examining slides, photos and magazines, and participating in a field trip. *Landscape and Garden Design Certificate core course; PCH 10.0 | LA CES 10.0*



Photo © Paul g. Wiegman

### SATURDAY PLANT IDENTIFICATION WALKS | Joshua Beblo

Saturdays: May 26; June 23; July 21; Aug. 18 | 10 a.m. – noon

\$20 members | \$25 nonmembers (price is per walk)

Meeting locations vary, see below

Photo © Paul g. Wiegman  
Montbretia (Crocosmia 'Lucifer')



**May 26:** Shrubs and Small Trees for Urban Yards, Mellon Park

**June 23:** Groundcovers, Vines and Plants for Hillside, Frick Park

**July 21:** Plants for Shade and Moist Locations, Carnegie Mellon University

**Aug. 18:** Plants for Hedges and Borders, Sewickley at Way Park

**Objective:** To be able to identify plants in a landscape setting

**Level:** Beginner to intermediate

**Prerequisite:** None

The best way to learn about new plants is to see them firsthand in the landscape. On each Saturday walk, landscape architecture instructor and eminent plantsman Joshua Beblo will introduce you to dozens of plants. Walks will focus on different themes, and any plants you pass are fair game for identification and discussion. Tune in to the wonderful world of plants all around you. Additional walk details will be sent out to registered students. *Sustainable Horticulture and Landscape and Garden Design elective; PCH 2.0 | LA CES 2.0*

### FIELD ECOLOGY EXCURSIONS | Dr. Linda K. Johnson

Raccoon Creek State Park: Sat., June 2 | 10 a.m. – 3 p.m.

Ohiopyle State Park: Sat., June 16 | 10 a.m. – 3 p.m.

Individual excursion: \$60 members | \$70 nonmembers

Both excursions: \$110 members | \$130 nonmembers

**Objective:** To be able to identify a variety of native plant communities existing in local parks and how they might be translated into a landscape setting

**Level:** Beginner to intermediate

**Prerequisite:** None

Looking to tie your ever-growing plant knowledge into actual native plant communities? There is no better way than exploring the habitats in our great state parks. Walking on the trails, we will discuss what is growing, why it is growing there and how it might be incorporated into garden designs. Additional walk details will be sent out to registered students. *Sustainable Horticulture, Landscape and Garden Design, and Native Plant Landscapes elective; PCH 5.0/10.0 | LA CES 5.0/10.0*

### BACKYARD ENTOMOLOGY | Ryan Gott

Thursdays: July 12, 19 and 26; Aug. 2 | 7–9 p.m.

\$88 members | \$98 nonmembers

Phipps Garden Center in Mellon Park

**Objective:** To understand and appreciate several important groups of insects and how they can help in your backyard

**Level:** Beginner to intermediate

**Prerequisites:** None

Insects are all around us — they outnumber us 200 million to one and are found on every continent, even on the open ocean. The most familiar insects to you are probably those right around your own home. Get to know them better and learn to appreciate insects of all kinds in this introduction to pests, beneficial insects and entomology (the study of arthropods). Join us to learn about the amazing creatures that live right in your own backyard! *Sustainable Horticulture and Native Plant Landscapes elective; PCH 8.0 | LA CES 8.0*





### INSTRUCTOR SPOTLIGHT

Joshua Beblo has been gardening since a young age. With an interest in design and art, he earned two degrees in landscape architecture. After working a few years professionally for a local firm with an emphasis in designing botanical gardens, he earned a degree in education and began teaching at several regional collegiate institutions. He has primarily taught courses in garden history, planting design and plant identification. As a member of the American Horticultural Society, he has attended and presented at their annual children and youth garden symposia. Joshua enjoys guiding others to explore and engage with their outdoor environments, enhancing awareness of their relationship with the surrounding landscape.

### HISTORY OF ROMAN AND ITALIAN GARDENS | Joshua Beblo

Tuesdays: July 24 and 31; Aug. 7 | 7–9 p.m.

\$66 members | \$76 nonmembers

Phipps Garden Center in Mellon Park

**Objective:** To be conversant in the history and design elements of Roman and Italian gardens

**Level:** Beginner to intermediate

**Prerequisite:** None

With their foundations in ancient Rome, Italian gardens flourished in the Renaissance and Baroque periods. Beginning in Roman antiquity, examine the design of private outdoor spaces through the Baroque period as influenced by the geographic and social characteristics unique to the Apennine Peninsula. Using numerous drawings and photographs, you will visually tour several villas that represent significant changes in style and design philosophies, from the initial gardens of Roman emperors to those of wealthy merchants and religious leaders. *Sustainable Horticulture and Landscape and Garden Design elective; PCH 6.0 | LA CES 6.0*

### LANDSCAPE CONSTRUCTION | Bob Vukich

Wednesdays: July 25; Aug. 1, 8 and 15 | 6:30–8:30 p.m.

\$88 members | \$98 nonmembers

Phipps Garden Center in Mellon Park

**Objective:** To be able to use techniques for building simple and well-designed constructed walls, walks and patios

**Level:** Intermediate

**Prerequisite:** None

Discover the fundamental construction techniques for building features that will withstand the forces of nature, such as yearly freeze and thaw cycles. Learn how to detail, specify for and construct simple walls, paving systems and steps, and discuss garden structures and drainage. *Landscape and Garden Design Certificate core course, and Sustainable Horticulture Certificate elective. PCH 8.0 | LA CES 8.0*

### BOTANY FOR GARDENERS | Dr. Linda K. Johnson

Wednesdays: Aug. 29; Sept. 5, 12, 19 and 26; Oct. 3 and 10 | 7–9 p.m.

\$176 members | \$196 nonmembers

Phipps Garden Center in Mellon Park

**Objective:** To be able to connect good gardening practice with the science that supports it

**Level:** Beginner to intermediate

**Prerequisite:** None

Why do some seeds germinate and others fail? Why should flowers be cut early in the morning? What are the effects of insect and fungi attacks? Discover the answers to these questions and get a fascinating look at how plants grow. Explore botanical principles and topics such as plants, their stems, leaves and roots and their importance to humankind. Also, learn about performance factors, reproduction, fruits and flowers. *Sustainable Horticulture and Native Plant Landscapes Certificate core course; PCH 16.0 | LA CES 16.0*



## CERTIFICATE CLASSES

# Floral Design

All class floral trimmings are composted.

### VASE ARRANGEMENTS I | Polly Berginc, AIFD

Tuesdays: May 8, 15 and 22 | 6:30–8:30 p.m.

\$66 members | \$76 nonmembers | Material fee: \$35 per session

Phipps Garden Center in Mellon Park

**Objective:** To be able to effectively arrange flowers in a vase

**Level:** Beginner to intermediate

**Prerequisite:** None

Learn the tricks florists use to design vase arrangements, practice three distinctively different techniques and utilize varying mechanics. *Floral Design Certificate core course*

### GIANT FANTASY FLOWERS | Sarah Needham

Mon., May 21 | 7–9 p.m.

\$22 members | \$27 nonmembers | Material fee: \$35

Phipps Garden Center in Mellon Park

**Objective:** To be able to look at a flower and replicate it in a large size by using other flowers as building materials

**Level:** Intermediate to advanced

**Prerequisite:** Basic Floral Design or other basic floral experience

Create spectacular, giant flowers by deconstructing several regular-sized ones and then use them as raw material to create one massive bloom. Gain a better understanding of mechanics and flower anatomy through this process. *Floral Design Certificate elective*

## VASE ARRANGEMENTS II | Polly Berginc, AIFD

Tuesdays: May 29; June 5 and 12 | 6:30 – 8:30 p.m.

\$66 members | \$76 nonmembers | Material fee: \$35 per session

Phipps Garden Center in Mellon Park

**Objective:** To be able to effectively arrange flowers in a vase

**Level:** Beginner to intermediate

**Prerequisite:** Vase Arrangements I

Building on skills developed in Vase Arrangements I, utilize different techniques and mechanics to learn more advanced skills that florists use to design vase arrangements.

*Floral Design Certificate core course*

## FLORAL STYLING FOR SOCIAL MEDIA | Sarah Needham

Wed., May 30 | 7–9 p.m.

\$22 members | \$27 nonmembers

Material fee: \$35

Phipps Garden Center in Mellon Park

**Objective:** To be able to set up a visually impactful camera shot

**Level:** Intermediate to advanced

**Prerequisite:** None

From finding vendors who will participate to choosing the perfect themes, colors and flowers, learn all the ins and outs of creating a styled photo shoot. Create your own floral design and style a simple shot using the fabrics and objects provided. *Floral Design Certificate elective*

## THE ART OF ARMILLARY | Korkey Noah Kibbey

Tuesdays: June 5, 12, 19 and 26 | 7–9 p.m.

\$88 members | \$98 nonmembers | Material fee: \$35 per session

Phipps Garden Center in Mellon Park

**Objective:** To be able to build armillary frameworks and marry them with fresh floral displays

**Level:** Intermediate

**Prerequisite:** Basic Floral Design

An old favorite reinvented, this class will teach you to use twigs, bamboo, grasses and wire to achieve unique floral displays featuring diverse design techniques. *Floral Design Certificate elective*

## INTRODUCTION TO THE HISTORY OF FLORAL DESIGN | Rose Grealish, CFD

Wednesdays: June 6, 13, 20 and 27; July 11, 18 and 25 | 7–9 p.m.

\$154 members | \$174 nonmembers | Material fee: \$35 per session

Phipps Garden Center in Mellon Park

**Objective:** To be able to integrate historical elements into today's floral design efforts

**Level:** Beginner to advanced

**Prerequisites:** None

Discover how western arranging forms have developed to become mainstream, how they collided with eastern thought and how they once separated but have now come back together. Make a unique arrangement each week inspired by a different era of floral design and gain an understanding of how the art and culture of that period influenced design.

*Floral Design Certificate core course*

## BASIC FLORAL DESIGN: AN INTRODUCTION TO WESTERN GEOMETRIC ARRANGING | Rose Grealish, CFD

Tuesdays: July 10, 17, 24 and 31; Aug. 7, 14, 21 and 28 | 7–9 p.m.

\$176 members | \$196 nonmembers | Material fee: \$35 per session

Phipps Garden Center in Mellon Park

**Objective:** To be able to construct symmetrical and combination arrangements, incorporating widely accepted principles of design

**Level:** Beginner

**Prerequisite:** None

Many forms of floral arrangement are based on western geometric style. Use this as a solid foundation to learn design principles, flower conditioning and mechanical techniques. *Floral Design Certificate core course*

## PAVÉ FLORAL DESIGN II | Polly Berginc AIFD

Wednesdays: July 11, 18 and 25 | 6:30 – 8:30 p.m.

\$66 members | \$76 nonmembers | Material fee: \$35 per session

Phipps Garden Center in Mellon Park

**Objective:** To be able to create artistic Pavé design compositions using more advanced techniques

**Level:** Intermediate

**Prerequisite:** Pavé Floral Design I

Building on skills and techniques developed in the basic Pavé class, we will explore new design concepts each week to create artistic, unique Pavé arrangements. Use parallel or angled insertions of short stemmed materials to design a low uniform composition with minimal variation in depth. *Floral Design Certificate elective*

## UPCYCLED WEDDING | Sarah Needham

Thursdays: July 12, 19 and 26; Aug. 2 | 7–9 p.m.

\$88 members | \$98 nonmembers

Material fee: \$20 per session

Phipps Garden Center in Mellon Park

**Objective:** To be able to create a wedding design using discarded and recycled objects

**Level:** Intermediate to advanced

**Prerequisite:** None

Learn how to decorate a wedding using discarded or secondary market items. Create Chihuly glass-styled flowers from plastic bottles, heirloom bouquets from brooches, buttons and other found objects, paper installations that function as funky backdrops for ceremonies, and centerpieces from foraged and found items. You will receive a list of items to find before each class, plus extra items will be available. *Floral Design Certificate elective*

## ARRANGING WITH LOCAL FLOWERS | Rose Kocher

Thursdays: Aug. 9, 16 and 23 | 7–9 p.m.

\$66 members | \$76 nonmembers | Material fee: \$40 per session

Phipps Garden Center in Mellon Park

**Objective:** To be able to create unique arrangements with locally sourced and sustainably raised flowers and greenery

**Level:** Beginner to advanced

**Prerequisite:** None

Learn how to transform basic farmers' market bouquets and backyard cuttings into fun and unique arrangements. Celebrate the season's beauty with locally sourced and sustainably raised flowers and greenery! *Floral Design Certificate elective*

Photo © Michael Will Photography



Photo © Michael Will Photography



**Register Today!**

Online registration is available. Please visit [phipps.conservatory.org](http://phipps.conservatory.org) and select the "Classes and Programs" link to sign up!





Photo © Paul g. Wiegman  
Passion flower (*Passiflora incarnata*)

## CERTIFICATE CLASSES

# Botanical Art and Illustration

*Students in full-day classes are encouraged to pack a lunch.  
A refrigerator and microwave are available on site.*

### FIXING MISTAKES IN COLORED PENCIL | Amy Lindenberger

Sat., May 5 | 9:30 a.m. – 4 p.m.  
\$105 members | \$125 nonmembers  
Phipps Garden Center in Mellon Park

**Objective:** To be able to use a variety of techniques to correct colored pencil mistakes

**Level:** Intermediate to advanced

**Prerequisite:** Botanical Drawing I & II, Colored Pencil I

Colored pencil is a forgiving medium, but accidents and missteps—unintentional impressed lines, stray marks and smears, too much color to permit further color layering, damage to the paper surface, spilled drinks or food, etc.—can produce unwanted results that can be a challenge to correct. If they occur when a drawing is nearly finished, they can be devastating to the artist. Discover strategies to correct common problems and bring samples of your own for discussion and demo. *Botanical Art and Illustration Certificate elective*

### DEVELOPING FORESHORTENING AND PERSPECTIVE BOTANICAL DRAWING SKILLS | Melissa Fabian

Sat., May 12 and Sun., May 13 | 9:30 a.m. – 4 p.m.  
\$145 members | \$165 nonmembers  
Phipps Garden Center in Mellon Park

**Objective:** To be able to use foreshortening and perspective botanical drawing skills

**Level:** Intermediate

**Prerequisite:** Botanical Drawing I

Understanding foreshortening, various perspectives and shadow and highlight placement can make the most challenging botanical drawing a success. During this two-session course, you will work with various botanical forms, including twining vines, contorted branching and cup- or trumpet-shaped blooms. The drawing exercises supplement Botanical Drawing I and II concepts and allow further focused practice. *Botanical Art and Illustration Certificate elective*

### BOTANICAL FIELD SKETCHING/STUDIES | Robin Menard

Sat., May 19 | 9:30 a.m. – 4 p.m.  
\$105 members | \$115 nonmembers  
Phipps Garden Center in Mellon Park

**Objective:** To possess observation and drawing skills for botanical illustration

**Level:** Intermediate

**Prerequisite:** Botanical Drawing I and II

Field sketches are important tools in developing botanical illustrations and a great opportunity to hone your drawing and observation skills. Complete several pencil field sketches, accurately documenting plant characteristics such as posture, size, flower and leaf patterns, bark, and roots. Then, return to the classroom and use your notes to develop one sketch into a more refined drawing or painting in the medium of your choice. *Botanical Art and Illustration Certificate elective*



Photo © Paul g. Wiegman  
Trumpet lily (*Lilium* 'Golden Splendor')

### CALLIGRAPHY | Christine Hutson

Thursdays: May 24 and 31; June 7 and 14 | 10 a.m. – noon  
\$135 members | \$155 nonmembers  
Phipps Garden Center in Mellon Park

**Objective:** To be able to use a flat pen or flat brush for calligraphy

**Level:** Beginner

**Prerequisite:** None

This beginner's class will focus on flat pen or flat brush calligraphy in both traditional and modern lettering styles. One lettering style will be taught, though you can try others if you wish. This introduction to basic calligraphy will empower you to incorporate fine lettering into your illustrations and art projects. *Botanical Art and Illustration Certificate elective*

### BOTANICAL DRAWING I: FOUNDATIONS | Robin Menard

Saturdays: June 9, 16 and 23 | 9:30 a.m. – 4 p.m.  
\$220 members | \$250 nonmembers  
Phipps Garden Center in Mellon Park

**Objective:** To be able to accurately draw three-dimensional shapes using line and tone, and employing geometric and aerial perspective in drawing botanical subjects

**Level:** Beginner

**Prerequisite:** None

Botanical illustration differs from traditional drawing because it captures a subject with scientific accuracy through observation, form and detail. Learn to identify basic shapes in nature and use a step-by-step process to create the illusion of depth through light, shadow and perspective. *Botanical Art and Illustration Certificate core course*

### POLLINATORS I | Robin Menard

Sundays: June 17, 24 and Sat., June 30 | 9:30 a.m. – 4 p.m.  
\$235 members | \$265 nonmembers (includes specimen fee)  
Phipps Garden Center in Mellon Park

**Objective:** To be able to accurately identify and depict pollinators in your art

**Level:** Intermediate to advanced

**Prerequisite:** Botanical Drawing I and II, Colored Pencil I or Watercolor I, or equivalent experience (check with program registrar)

Including pollinators in your botanical illustrations not only adds beautiful dimension, but also connects your plant or flower with the essential creatures that its very existence depends upon. Discover the scientific specifics and habits of bees and butterflies and ways to illustrate them accurately through careful study and execution. This class will include scientific study and lectures by Ryan Gott, Phipps' integrated pest management specialist, and Christina Neumann of Apoidea Apiary. *Botanical Art and Illustration Certificate elective*

### LILIES, LILIES, LILIES | Jeanne Perrier

Sat., July 7 and Sun., July 8 | 9:30 a.m. – 4 p.m.  
\$145 members | \$165 nonmembers | Material fee: \$10  
Phipps Garden Center in Mellon Park



**Objective:** To be able to complete a botanically correct and beautiful illustration of a lily plant and flowers

**Level:** Intermediate to advanced

**Prerequisite:** Botanical Drawing I & II, Colored Pencil I

Utilize your colored pencil and drawing skills to complete a botanical project. Choose your lily, create the composition and complete the rendering of a botanically correct illustration of the plant and flower. *Botanical Art and Illustration Certificate elective*

### PEN AND INK I | Melissa Fabian

Saturdays: July 14 and 21; Aug. 4 | 9:30 a.m. – 4 p.m.  
\$220 members | \$250 nonmembers  
Phipps Garden Center in Mellon Park

**Objective:** To be able to make tonal and semi-schematic drawings with pen and ink

**Level:** Intermediate

**Prerequisite:** Botanical Drawing I and II

Beginning with the fundamentals of pen and ink techniques, learn how to use different strokes to create a compositional balance of black and white tones. *Botanical Art and Illustration Certificate core course*

### WATERCOLOR II: APPLICATIONS | Brenda Jordan

Saturdays: July 14 and 28; Aug. 4 | 9:30 a.m. – 4 p.m.  
\$228 members | \$258 nonmembers (price includes specimen fee)  
Phipps Garden Center in Mellon Park



Photo © Paul g. Wiegman  
Dahlia (Dahlia)

**Objective:** To be able to create three-dimensional botanical portrayals using and enhancing practices learned in Watercolor I

**Level:** Intermediate

**Prerequisites:** Botanical Drawing I and II, and Watercolor I

Build upon your knowledge from Watercolor I to learn additional techniques used in transparent watercolor and practice manipulating watercolor using different brushes and papers. Discover new colors and techniques for mixing colors, as well as rendering blacks and

whites in transparent watercolor. Apply your new skills to studies of plant forms, including a final project that demonstrates your control of watercolor techniques for accurate rendering of botanical forms. *Botanical Art and Illustration Certificate (Watercolor Concentration) core course*

### GUIDED OPEN STUDIO | Botanical Art Instructors

Sundays: July 15; Aug. 12; Sept. 23; Oct. 21; Nov. 11 | 9:30 a.m. – 1 p.m.  
\$15 members | \$20 nonmembers (price is per session)  
Phipps Garden Center in Mellon Park

**July 15:** Weldon Doran | Composition

**Aug. 12:** Robin Menard | General Assistance

**Sept. 23:** Melissa Fabian | Foreshortening, Shadow/Highlights

**Oct. 21:** Robin Menard | General Assistance

**Nov. 11:** Melissa Fabian | Botanical Textures

**Objective:** To have improved technique while working on a botanical art project

**Level:** Beginner to advanced

**Prerequisites:** Botanical Drawing I and II, Watercolor I or Colored Pencil I

Making time to concentrate on your art can be tough! Join fellow botanical artists at these open studio sessions, and find the inspiration and support to start, continue and finish projects. Work on class work, your portfolio or something totally new. Current Flora students may attend as part of their Flora Project fee. Bring your artwork and materials and enjoy the time to create.

### COLORED PENCIL I: TECHNIQUES | Amy Lindenberger

Sundays: July 22 and 29; Aug. 5 | 9:30 a.m. – 4 p.m.  
\$220 members | \$250 nonmembers  
Phipps Garden Center in Mellon Park

**Objective:** To be able to create a gradual transition of tone and color with colored pencils

**Level:** Intermediate

**Prerequisites:** Botanical Drawing I and II

Using different techniques, you can make colored pencil tones look like a drawing or a painting, providing you with the versatility to create a wide variety of surface textures. Develop your color perception and become familiar with colored pencil tools, color applications and color theory fundamentals. Learn to layer colors to achieve different hues and densities and master a variety of techniques, including burnishing, impressed line and sgraffito. *Botanical Art and Illustration Certificate core course*



## BOTANICAL DRAWING II: VOLUME, TEXTURE AND DETAILS | Robin Menard

Saturdays: Aug. 11, 18 and 25 | 9:30 a.m. – 4 p.m.  
\$220 members | \$250 nonmembers  
Phipps Garden Center in Mellon Park

**Objective:** To be able to apply skills gained in Botanical Drawing I to accurately capture various plant forms, details and textures that are unique to the subject

**Level:** Intermediate

**Prerequisite:** Botanical Drawing I

Continue to develop your observation and drawing skills to accurately render leaves, stems, roots and flowers in varying positions, capturing details and textures unique to the botanical subject. *Botanical Art and Illustration Certificate core course*

## GORGEOUS GREENS IN WATERCOLOR | Amy Lewandowski

Sat., Aug. 25 and Sun., Aug. 26 | 9:30 a.m. – 4 p.m.  
\$152 members | \$172 nonmembers (includes specimen fee)  
Phipps Garden Center in Mellon Park

**Objective:** To be able to create a variety of greens in watercolor and apply them to plant specimens

**Level:** Advanced

**Prerequisites:** Botanical Drawing I and II, Watercolor I and II

Plants often have a wide variety of beautiful greens and it can be challenging to represent these different colors accurately. Learn how to assess the differences in the greens of plants by observing their subtle variations in hue, value and intensity. Practice painting different greens through a series of watercolor mixing exercises and then apply this information to an illustration of a single leaf or of multiple specimens. *Botanical Art and Illustration Certificate elective*

## THE ILLUMINATED BOTANICAL ABCDERIUM: DRAWING FROM HISTORY | Visiting Artist Kandy Phillips

Sat., Sept. 15 and Sun., Sept. 16 | 9:30 a.m. – 4 p.m.  
\$285 members | \$325 nonmembers (includes specialty supply fee)  
Phipps Garden Center in Mellon Park

**Objective:** To be able to illuminate a series of four historical plant inspired letterforms

**Level:** Advanced

**Prerequisite:** Botanical Drawing I and II, Watercolor I and II or equivalent watercolor experience (check with program registrar)

During this two-day workshop, Kandy Phillips will provide step-by-step instruction, including painting techniques, white work, tooling on gold and flat gilding with composite leaf for you to create a series of four historical plant inspired letterforms. Using the provided templates, copy the samples to begin your own ABCderium in an art form that sees rich colors glow. Creative adaptations are encouraged! Prep work prior to class is expected along with a working knowledge of fine watercolor painting. *Botanical Art and Illustration Certificate elective*



Image courtesy of Kandy Phillips

The Hunt Institute exhibition, *Alphabetus Botanicus* (Thurs., Sept. 13–Fri., Dec. 14), features the illuminated letters of Kandy Vermeer Phillips alongside artwork of plants from A to Z from the Institute collection, illuminated manuscripts from special collections at Carnegie Mellon University and materials used in illumination. A public reception will be held on Thurs., Sept. 13 from 5–7 p.m. Phillips will give a demonstration on drawing letter forms in silverpoint in the gallery on Fri., Sept. 14 from 10 a.m.–noon and 2–4 p.m. She will have sketches available showing the metalpoint process, along with various metals and prepared papers with which visitors may experiment. In addition, she will informally discuss the history of illumination and metalpoint during the demonstration.



Photo © Paul g. Wiegman

## NON-CERTIFICATE CLASSES

# Gardening and Botanical Crafts

## MAKE YOUR OWN SUCCULENT WREATH | Monica Colantoni

Mon., May 7 OR Mon., May 21 | 7–9 p.m.  
\$20 members | \$25 nonmembers | Material fee: \$50  
Phipps Garden Center in Mellon Park

**Students must register by Tues., April 24.**

**Level:** Beginner to intermediate

Succulents are striking, water-storing plants that make their mark in many unusual indoor and outdoor plantings. Learn about these beautiful, drought-resistant plants and use them to create your very own living wreath. Plus, discover other ways to use succulents in your home and garden.

## ORGANIC GARDENING | Sarah Meiss

Tuesdays: May 8, 15 and 22 | 7–9 p.m.  
\$60 members | \$70 nonmembers  
Phipps Garden Center in Mellon Park

**Level:** Beginner

Learn how to plan, implement and care for an organic garden, including what works best for your space, your time and your hope for food production. Discover methods to get the most out of your garden while practicing organic ideals such as avoiding synthetic fertilizers or pesticides, sustainable gardening, and pest management. Learn about organic garden preparation, care, designs and long term care.

### BEGINNING BONSAI WORKSHOP | Dr. Norbert Pietrzak

Sat., May 12 | 10 a.m. – noon  
\$25 members | \$30 nonmembers | Material fee: \$45  
Phipps Garden Center in Mellon Park

**Level:** Beginner

In this hands-on workshop, you will have the opportunity to study the timeless and ancient art of bonsai as you learn the horticultural techniques of styling, wiring, potting and root pruning. All materials will be provided and each participant will take home a completed dwarf garden juniper bonsai. Please bring a pair of hand pruners if you have them.

### GROWING FIGS IN YOUR GARDEN | Pat Morgan

Mon., May 14 | 7–9 p.m.  
\$20 members | \$25 nonmembers  
Phipps Garden Center in Mellon Park

Have you ever eaten a luscious, juicy, fresh fig? It tastes nothing like your everyday fig newton! Learn about figs' origin and cultural history, unusual characteristics and varieties specific to northern climes. Yes, it is possible to grow fig trees in the north! Then explore how and when to propagate, prune, harvest and preserve figs, and look at several ways to overwinter and protect figs.

### SUSTAINABLE PERENNIALS FOR YOUR GARDEN | Linda Roos

Wednesdays: May 16 and 23  
6:30 – 8:30 p.m.  
\$40 members | \$45 nonmembers  
Phipps Garden Center at Mellon Park and Phipps Conservatory and Botanical Gardens, Botany Hall

**Level:** Beginner to intermediate

First, attend a class at Phipps Garden Center to learn about sustainable perennials. Then, explore the Sustainable Perennial Beds at Phipps Conservatory, as well as other locations on the grounds to see some of the region's top-performing

and most reliable varieties first hand, many of which are featured in Phipps' Top 10 Sustainable Plants lists. During the tour, you will not only see the plants as they grow, but also learn about best practices for designing, planting and maintaining a healthy sustainable garden.

### TROPICAL BONSAI: WEEPING FIG | Dr. Norbert Pietrzak

Sat., May 19 | 10 a.m. – noon  
\$25 members | \$35 nonmembers | Material fee: \$40  
Phipps Garden Center in Mellon Park

**Level:** Beginner

Learn how to plant, prune and maintain a weeping fig (*Ficus benjamina*)—an excellent bonsai specimen for the indoors. All materials will be provided and each participant will take home a completed bonsai. Participants should bring a pair of hand pruners if they have them.

### PROTECTING AND PROMOTING POLLINATORS | Ryan Gott

Wednesdays: May 23 and 30 | 7–9 p.m.  
\$40 members | \$45 nonmembers  
Phipps Garden Center in Mellon Park

**Level:** Beginner

Pollinators provide important services without which the ecosystem would grind to a halt. There are many more pollinators besides honey bees! Explore many kinds of pollinators, the problems they face in the world today and what we can do to help them thrive.

### PHIPPS OUTDOOR GARDENS WALK | Jennifer Davit

Thurs., May 24 | 11 a.m. – noon  
\$10 members | \$15 nonmembers  
Phipps Conservatory and Botanical Gardens

**Level:** Beginner to intermediate

Explore Phipps' Outdoor Gardens with the guidance of Phipps' Curator of Horticulture, Jennifer Davit and get an in-depth spring tour of Phipps' perennials, shrubs and trees.



Photo © Paul g. Wiegman

### GLASS FLOWERS, GLASS PLANTS | Daviea Davis

Mon., June 4 | 7–9 p.m.  
\$25 members | \$30 nonmembers | Material fee: \$7  
Phipps Garden Center in Mellon Park

**Level:** Beginner

Create your own summer-themed 8" x 12" sun catcher using tumbled stained glass pieces.

### GARDEN DESIGN AND WALKING TOUR | Lynn Purse

Tues. June 12 | 7–9 p.m. | Phipps Conservatory and Botanical Gardens, Botany Hall  
Field trip: Sat., June 16 | 10 a.m. – noon | North Hills Area; directions provided upon registration  
\$40 members | \$60 nonmembers

**Level:** Beginner to intermediate

Design a home garden that reflects your personal style and connects your home to the landscape. The first class will focus on basic design principles that any homeowner can use to create a uniquely personal garden. The second class will be an onsite guided visit to the instructor's garden where you can observe how the basic design principles are put into real life practice. The garden features deer resistant plantings—including native plants for pollinators—and fenced areas that feature mid-June blooms of roses, clematis, hydrangea and early daylilies.

### TROPICAL BONSAI: DWARF JADE | Dr. Norbert Pietrzak

Sat., June 30 | 10 a.m. – noon  
\$25 members | \$35 nonmembers | Material fee: \$40  
Phipps Garden Center in Mellon Park

**Level:** Beginner

Learn how to plant, prune and maintain a *Portulacaria afra*—an excellent bonsai specimen for the indoors. All materials will be provided, and each participant will take home a completed bonsai. Participants should bring a pair of hand pruners if they have them.

Photo © Paul g. Wiegman  
Butterfly weed (*Asclepias tuberosa*)





## MACRO PHOTOGRAPHY | Bob Egan

Wednesdays: July 11, 18 and 25; Aug. 1 | 6:30–9:30 p.m.

\$120 members | \$140 nonmembers

Phipps Conservatory and Botanical Gardens, Botany Hall



Photo © Paul G. Wiegman  
Blue-eyed grass (*Sisyrinchium angustifolium* 'Lucerne')

**Level:** Beginner to intermediate

Learn about the equipment and techniques you need to take photos of small objects and make them appear larger. Then, explore the Conservatory and practice those techniques with cameras and tripods. Your photographs will be reviewed and critiqued in a friendly, non-challenging environment each week. This class is open to people at all levels of experience and is hands on. Please bring cameras and close-up equipment to each session. Any type of camera is capable of producing great macro images and can be used for this class.

## PLANNING FOR A FALL VEGETABLE CROP | Mike Bechtel

Tues., Aug. 7 | 6:30 – 8:30 p.m.

\$20 members | \$25 nonmembers

Phipps Conservatory and Botanical Gardens, Botany Hall and the Rooftop Edible Garden

**Level:** Beginner to intermediate

Savvy vegetable gardeners are able to maximize their harvest by planting multiple crops in the same space throughout the season. Learn the tips, tricks and timelines for successfully extending the growing season.

## GARDEN KNOTS | Andrew Tomaskovic

Mon., Aug. 27 | 7–9 p.m.

\$20 members | \$25 nonmembers

Phipps Garden Center in Mellon Park

**Level:** Beginner

A well-tied knot is as beautiful as it is effective. Spend an evening immersing yourself in the world of knots. Learn knot terminology and practice tying the most essential knots for any gardener to know with the support of a practicing arborist.

## INTRODUCTION TO ORCHID CARE | Demetria Marsh

Thurs., Sept. 27 | 7–9 p.m.

\$20 members | \$25 nonmembers | Material fee: \$30 (optional)

Phipps Garden Center in Mellon Park

**Level:** Beginner

Learn all about home orchid care, discuss common varieties and discover their histories. Register by Thurs., Sept. 6 and you may choose to purchase your own Phalaenopsis grown locally by Bidwell Training Center.



Photo © Paul G. Wiegman  
Pepper (*Capsicum annuum*)

## NON-CERTIFICATE CLASSES Culinary Arts

Join us in our newly renovated, state-of-the-art Botany Hall Kitchen for exciting culinary arts classes! Discover new ways to prepare food that is good for you and the planet in our innovative kitchen and classroom setting. Please note that Phipps culinary arts classes use a wide variety of ingredients. If you have a food allergy, please check with the education department at [edu@phipps.conservatory.org](mailto:edu@phipps.conservatory.org) or 412/441-4442 before registering for the class. In-class adjustments may not be possible.

### VEGETARIAN INDIAN COOKING FROM SCRATCH | Jayashree Iyengar

Wednesdays: May 16; July 25; OR Thurs., Aug. 16 | 6–9 p.m.

Individual classes: \$65 members | \$70 nonmembers

Full series: \$180 members | \$200 nonmembers

Phipps Conservatory and Botanical Gardens, Botany Hall Kitchen

**Level:** Beginner to intermediate

**May 16:** Bhel Puri, Lemon Rice, Tomato Rasam, Green Beans, and Cucumber and Onion Raita

**July 25:** Bainghan Bartha (mashed eggplant), Coconut Rice, Vegetable Sambar, Alu Gobi and Spinach Raita

**Aug. 16:** Spiced Peanuts, Chappathi/Roti, Channa Masala and Potato Curry

Join Jayashree Iyengar as she teaches us the world of Indian cooking. Each hands-on cooking session will include five different dishes. Expand your culinary skill set, learn new spice combinations and bring healthy and delicious Indian cuisine into your home cooking rotation. Substitutions may occur based on availability.



## Local Food Preservation Series

### JAMS, JELLIES AND PRESERVES | Susan Marquesen

Tues., June 12 | 6:30–9 p.m.

\$30 members | \$35 nonmembers

Phipps Conservatory and Botanical Gardens, Botany Hall Kitchen

Using early summer fruits and herbs, learn how to prepare jams, jellies and other sweet preserves—with and without added pectin. Learn through hands-on demonstrations and classroom instruction and discover how to recognize when a preserve reaches the gel stage, as well as the steps in processing jars in a hot water bath.

### PICKLES, SALSAS AND RELISHES | Susan Marquesen

Tues., Aug. 7 | 6:30–9 p.m.

\$30 members | \$35 nonmembers

Phipps Conservatory and Botanical Gardens, Botany Hall Kitchen

Learn how to prepare quick pickles, salsas and relishes using local in-season fruits and vegetables. Use proven recipes and methods. This class includes a hands-on demonstration where we create flavorful and interesting canned goods and process them in a hot water bath. We also demonstrate the initial steps in the fermentation process for cucumber pickles.

### FALL FRUITS | Susan Marquesen

Tues., Sept. 11 | 6:30–9 p.m.

\$30 members | \$35 nonmembers

Phipps Conservatory and Botanical Gardens, Botany Hall Kitchen

Using fall's bounty, learn how to preserve apples, pears and tomatoes using standard and more interesting recipes. Classroom instruction is supplemented with a hands-on demonstration. While the emphasis is on hot water bath processing, you also learn the process and benefits of using a pressure canner to put up tomatoes.



Photo courtesy of Susan Marquesen



#### INSTRUCTOR SPOTLIGHT

Susan Marquesen has been gardening and preserving foods for as long as she can remember. As a child she helped her parents preserve from the garden, and as an adult she carried on the tradition with her own children. Now tending a suburban garden of fruit trees, small fruit, herbs and vegetables, Susan enjoys sharing her knowledge of the preserving process, the science behind it and her favorite recipes.



Photo © Paul G. Wiegman

### NON-CERTIFICATE CLASSES

## Green and Healthy Living

### RAIN BARREL/WATERSHED AWARENESS WORKSHOP | Nancy Martin

Thurs., June 14 | 7–8:30 p.m.

\$80 per person | \$85 per couple

Phipps Garden Center in Mellon Park

Harvesting rainwater can save money, benefits water quality in our region and makes good sense for backyards and gardens. Learn why rain barrels are especially important in Allegheny County, how to install a rain barrel and how to best store and use rainwater. You will receive a FreeGarden RAIN 55-gallon rain barrel. Designed with the homeowner/gardener in mind, it is affordable, attractive, easy to move and easy to install. This workshop is hosted by the Pennsylvania Resources Council. To register, visit <http://prc.org/programs/conservation-workshops/watershed-rain-barrels>, or call **412/488-7490, ext. 247**. Pre-registration is required.

### BACKYARD COMPOSTING | Nancy Martin

Thurs., June 21 | 7–8:30 p.m.

\$70 per person | \$75 per couple

Phipps Garden Center in Mellon Park



Organic materials often considered waste—such as grass clippings, food scraps, autumn leaves and paper—can be turned into a rich soil conditioner with valuable plant nutrients through the natural process of decomposition. Learn about the importance of composting, and learn how to set up a compost pile, properly maintain it and use the finished product. You will receive a FreeGarden EARTH compost bin, an 82-gallon receptacle that is an ideal choice for urban and suburban areas. This workshop is hosted by the Pennsylvania Resources Council. To register, visit <http://prc.org/programs/conservation-workshops/backyard>, or call **412/488-7490, ext. 247**. Price includes one compost unit per registration. Pre-registration is required.



## Herbal Wellness Series

### BUILDING YOUR HERBAL MEDICINE CABINET | Jessica Graves

Thurs., May 17 | 7–9 p.m.  
\$20 members | \$25 nonmembers | Material fee: \$5  
Phipps Garden Center in Mellon Park

Take the bounty from your garden and turn it into useful, healing medicines for you and your family. Learn about the most useful herbs to plant and how to harvest them to create simple medicines that will keep you healthy all year long.

### COOKING WITH MEDICINAL HERBS: RECIPES THAT GO BEYOND “TRADITIONAL KITCHEN HERBS” | Jessica Graves

Wed., June 13 | 7–9 p.m.  
\$20 members | \$25 nonmembers | Material fee: \$5  
Phipps Conservatory and Botanical Gardens, Botany Hall Kitchen

Cooking with medicinal herbs is a great way to get more healing out of your garden. Learn delicious and nutritious recipes with herbs beyond your standard parsley, sage, rosemary and thyme!

### HERBAL SALVES | Jessica Graves

Tues., July 17 | 7–9 p.m.  
\$20 members | \$25 nonmembers | Material fee: \$5  
Phipps Garden Center in Mellon Park

Herbalists have made healing salves for centuries. Discover their secrets as we discuss choosing the best herbs for salves, growing and harvesting these in your garden, and preparing an herbal wonder salve at home.



Photo © Paul G. Wiegman

## Youth Educational Programs

*Phipps is excited to introduce all-new camps for growing minds this summer! Learn how the vegetables on your plate grow in the garden, dig into the world of crawling critters and discover the important role that busy bees play in growing flowers! For a full list of programs, including new full-day summer camps, visit [phipps.conservatory.org/camps](http://phipps.conservatory.org/camps).*

### Little Sprouts

Ages 2–4  
Children must be accompanied by an adult.  
Mondays – Thursdays  
\$75 members | \$80 nonmembers

#### MY FIVE SENSES

June 11–14 | 9–10:15 a.m.  
Explore plants and nature by using your senses of smell, touch, taste, sound and sight.

#### MY FIRST VEGGIE GARDEN

June 11–14 | 11 a.m. – 12:15 p.m.  
How do carrots, rice and radishes grow? Explore Phipps' Rooftop Edible Garden and learn how plants in the garden end up on your plate.

#### WE LIKE DIRT

June 18–21 | 9–10:15 a.m.  
Investigate underground life, search for critters that live in dirt, make mud pies and learn how plants grow.

#### SUPERHERO BUGS

June 18–21 | 11 a.m. – 12:15 p.m.  
Find out what makes bugs so cool while exploring your favorite buzzing, creeping and crawling critters at Phipps.

#### WONDERFUL WORMS

July 2–6 | 10:30 – 11:45 a.m.  
*\*Please note that this camp will not meet on July 4.*  
Learn all about worms and the important role they play in the environment.



### FAIRIES EXPLORING HABITATS

July 9–12 | 9–10:15 a.m.

Explore the desert and Tropical Forest Cuba with fairy-themed activities.

### SILLY SNAILS

July 9–12 | 11 a.m. – 12:15 p.m.

Get to know the snails found in Pennsylvania and in Tropical Forest Cuba.

### MY FIRST FLOWER GARDEN

July 30–Aug. 2 | 9–10:15 a.m.

Learn what grows in a garden and explore the plants and animals that call Phipps home.

### WONDERFUL WORMS

July 30 – Aug. 2 | 11 a.m. – 12:15 p.m.

Learn all about worms and the important role they play in the environment.

### REMARKABLE ROCKS

Aug. 6–9 | 9–10:15 a.m.

Let's use our senses to explore the concepts of sinking and floating with rocks found in water and dirt.

### SUMMER FAIRIES IN THE GARDEN

Aug. 6–9 | 11 a.m. – 12:15 p.m.

Learn about the magical world of plants with fun, fairy-themed activities.



Photo © Cory Doman

## Seedling Scientists

Ages 4–6

Mondays–Fridays

\$125 members | \$140 nonmembers

### A BUG'S WORLD

June 18–22 | 2–4 p.m.

Find out what makes bugs so cool while exploring Phipps for buzzing, creeping and crawling critters.

### HEALTHY SUMMER GARDEN AND GAMES

July 2–6 | 2–4 p.m.

*Please note that camp will not meet on July 4.*

Play games in the Outdoor Garden and learn how our plants grow in the bright summer sun.

### FAIRYTALE FOREST

July 9–13 | 2–4 p.m.

Learn about the magical world of plants through fairytale-themed activities.

### BACKYARD ART

July 16–20 | 10 a.m. – noon

Gather hidden natural treasures and turn them into projects, connecting to nature through drawing, painting and sculpture.

### THE JOURNEY OF THE BUTTERFLIES

July 23–27 | 10 a.m. – noon

Learn all about butterflies and explore the habitats that butterflies visit during their amazing migration.



## Budding Botanists

Ages 6–8

Mondays–Fridays | 1:30–4 p.m.

\$155 members | \$175 nonmembers

### POLLINATION CITY

June 11–15

Explore the importance of pollination through an in-depth study of bees and other specialized pollinators.

### PHIPPS TO TABLE

July 23–27

Calling all budding chefs and young entrepreneurs! Develop your culinary prowess using healthy ingredients and sustainable planting methods.

## NEW! Rockin' Researchers

Ages 6–10

Mondays–Fridays | 8:30 a.m. – 4 p.m.

\$345 members | \$360 nonmembers

These all-new full day programs immerse campers in the world of Phipps for a week of scientific discovery. A healthy lunch prepared with Let's Move Pittsburgh is included.

### DECODE NATURE

Aug. 13–17

Nature provides so many fascinating mysteries — let's decode a new mystery each day of camp by exploring the fish, birds and insects in the Pittsburgh region. Plus, learn how aquaponics systems can help to grow fruits and vegetables with just fish and water.

This camp is sponsored in part by Commonwealth Charter Academy.



### HABITAT VACATION

Aug. 20–24

Discover nature and use the scientific method to explore the desert and tropical forest biomes. Explore the research station in the new Tropical Forest Cuba exhibit.

## Science Sleuths

Ages 9–13

Mondays–Fridays | 1:30–4 p.m.

\$155 members | \$175 nonmembers

### CONSERVATION CREW

July 30 – Aug. 3

Dive into conservation science and use the scientific method to think critically. Then, conduct hands-on research and service projects and connect with local scientists.

## NEW! Common Threads: Cooking Skills and World Cuisine

Ages 8–12

Wednesdays, July 11–25 OR Aug. 1 and 8  
2–4 p.m.

\$175 per child per series\*

Engage your taste buds and your mind as you explore the culture and cuisine of a variety of countries in our brand-new Botany Hall Kitchen. Learn how to follow a recipe and prepare a balanced, healthy meal.

\*Scholarships are available based on financial need. Please contact [sbertovich@hipps.conservatory.org](mailto:sbertovich@hipps.conservatory.org) for details.

## School and Outreach Programs

While meeting Pennsylvania state standards, our programs use botany and ecology to inspire learning with a lesson and a tour. With curriculum options for all ages and fun subjects including Busy Bees, Butterflies, Carnivorous Plants, Dynamic Deserts and more, you're sure to find a trip that will excite your child through hands-on engagement. See our full list of program options online!





## Free Public Programs

Photo © Paul g. Wiegman  
Tropical hibiscus (*Hibiscus rosa-sinensis*)

Join us every Saturday and Sunday at 1:30 p.m.\* in the Tropical Forest Conservatory at Phipps for demonstrations on a wide variety of topics, free with admission! From beekeeping to bonsai and conifer care to compost, local experts bring it all to you surrounded by the beauty of our gardens.

\*Unless otherwise noted

### May

#### HEALTHY EATING FOR KIDS

Let's Move Pittsburgh  
Sat., May 5 | 11 a.m. – 1 p.m.

#### MAKING AN HERB SPIRAL GARDEN

Sarah Meiss  
Sat., May 5

#### MOSSES AND MOSS GARDENING

Cyndi Fink  
Sun., May 6

#### PAPER MAKING WITH MOTHER IN MIND

Katy Dement  
Sat., May 12

#### MEET A SCIENTIST

Science Communication Fellows  
Sat., May 19 | 1:30 – 3:30 p.m.

#### GARDENING TOOLS AS FOCAL POINTS IN FLOWER ARRANGEMENTS

Chris Holt  
Sun., May 20

#### PERENNIALS FOR THE HEAT AND DRY OF SUMMER

Tim Choltco  
Sat., May 26

#### ORIGAMI

Origami Club of Pittsburgh  
Sun., May 27 | 12:30 – 2:30 p.m.

### June

#### HEALTHY EATING FOR KIDS

Let's Move Pittsburgh  
Sat., June 2 | 11 a.m. – 1 p.m.

#### GARDENING WITH BIRDS

Janet Sieff  
Sat., June 2

#### VERMICOMPOSTING

Beth Spellman  
Sun., June 3

#### EAST AFRICAN PALM WEAVING

United Somali Bantu of Greater Pittsburgh  
Sat., June 9

#### FLOWER ARRANGEMENTS FOR A PERFECT PICNIC

Chris Holt  
Sun., June 10

#### MEET A SCIENTIST

Science Communication Fellows  
Sat., June 16 | 1:30 – 3:30 p.m.

#### PLANT DIVERSITY

Tim Choltco  
Sun., June 17

#### ESSENTIAL OILS

Lori Rothschild  
Sat., June 23

#### ORIGAMI

Origami Club of Pittsburgh  
Sun., June 24 | 12:30 – 2:30 p.m.

#### ESSENTIAL OILS

Lori Rothschild  
Sat., June 30



## July

### GROWING SUCCULENTS IN CONTAINERS

Lori Easudes  
Sun., July 1

### TROPICAL FOREST CUBA FESTIVAL

Sat., July 7 | 11 a.m.–3 p.m.

### ORIGAMI

Origami Club of Pittsburgh  
Sun., July 8 | 12:30–2:30 p.m.

### HEALTHY EATING FOR KIDS

Let's Move Pittsburgh  
Sat., July 14 | 11 a.m.–1 p.m.

### BUTTERFLIES IN THE GARDEN

Cyndi Fink  
Sat., July 14 | 12:30–2:30 p.m.

### QUICK FLORAL ARRANGEMENTS FOR SURPRISE GUESTS

Chris Holt  
Sun., July 15

### MEET A SCIENTIST

Science Communication Fellows  
Sat., July 21 | 1:30–3:30 p.m.

### MINER BEES AND THEIR UNIQUE HOMES

Tamara Swick  
Sun., July 22

### URBAN BEEKEEPING

Burgh Bees  
Sat., July 28

### CARE FOR SUMMER PERENNIALS

Tim Choltco  
Sun., July 29

## August

### HEALTHY EATING FOR KIDS

Let's Move Pittsburgh  
Sat., Aug. 4 | 11 a.m.–1 p.m.

### GARLIC IS GOOD FOR YOU

Cyndi Fink  
Sat., Aug. 4

### HYDROPONICS

Kate Robson  
Sun., Aug. 5

### ESSENTIAL OILS

Lori Rothschild  
Sat., Aug. 11

### URBAN BEEKEEPING

Burgh Bees  
Sun., Aug. 12

### MEET A SCIENTIST

Science Communication Fellows  
Sat., Aug. 18 | 1:30–3:30 p.m.

### ORIGAMI

Origami Club of Pittsburgh  
Sun., Aug. 19 | 12:30–2:30 p.m.

### PLANNING YOUR 2019 GARDEN

Tim Choltco  
Sat., Aug. 25

### ESSENTIAL OILS

Lori Rothschild  
Sun. Aug. 26

## Register Today!

To register for a class, visit [phipps.conservatory.org](http://phipps.conservatory.org).

Please register no later than one week before class begins.

To learn more or sign up by phone, call **412/441-4442, ext. 3925**.

**ADVANCE REGISTRATION** is required for all classes.

Students may register online by visiting [phipps.conservatory.org](http://phipps.conservatory.org) and selecting the "Classes and Programs" tab, or by calling **412/441-4442, ext. 3925**. Confirmations will be sent by email.

**MINIMUM ENROLLMENT** applies to all Phipps classes.

If advance enrollment does not indicate adequate interest one week before the course is scheduled to begin, the session will be cancelled. Class sizes may also be limited, so be sure to register early.

**PARTIAL REFUNDS** will be given to any student who is unable to attend a course and has notified staff at Phipps Garden Center at least 48 hours prior to the first class. There is a \$10 nonrefundable administrative fee for all course cancellations. When classes are cancelled due to low enrollment, fees are fully refunded. Please call **412/441-4442** with questions.

*Please note: Phipps reserves the right to substitute instructors when necessary.*

Photo © Paul g. Wiegman





Phipps Conservatory and Botanical Gardens  
One Schenley Park, Pittsburgh, PA 15213-3830

Non-Profit Org.  
US Postage  
**PAID**  
Pittsburgh, PA  
PERMIT 1408



# Upcoming Exhibits and Events

For more details, please visit [phipps.conservatory.org](http://phipps.conservatory.org)

## SUMMER FLOWER SHOW: GARDENS OF SOUND AND MOTION

Sat., April 28 – Sun., Sept. 30

Feast your senses of sight and sound this summer at Summer Flower Show: Gardens of Sound and Motion. Featuring new visual art and sound installations by artists from Pittsburgh and beyond, you will be immersed in a world of eye-catching, interactive art, music and sounds amidst gorgeous displays of summer blooms.

## BIOPHILIA: PITTSBURGH

First Thursday of every month | 5:30 – 7:30 p.m.

Biophilia: Pittsburgh meets monthly to discuss how citizens can strengthen the bond between people and nature through education and action. Join the conversation! Registration is required but events are free to attend.

## MAY MARKET

Fri., May 11 | 9:30 a.m. – 7 p.m.

Sat., May 12 | 9:30 a.m. – 5 p.m.

Celebrate spring at our annual May Market, a bustling marketplace where Phipps horticulturists, local nurseries, farms and other vendors come together for a market of ultra-green proportions. May Market is free and open to the public, and on Fri., May 11, National Public Gardens Day, Conservatory admission is 50-percent off during May Market hours. It's the perfect Mother's Day weekend outing!

## JAZZ IN THE GARDEN

Thurs., June 14 | 7–10 p.m.

Beat the summer heat with cool tunes and full blooms as we bring a classic jazz big band to our lush, colorful Outdoor Garden. Don't miss the summer's biggest garden bash! R.S.V.P. required; purchase tickets at [phipps.conservatory.org](http://phipps.conservatory.org).

Photo © Paul g Wiegman