

# Sarah P. Duke Gardens

EDUCATION PROGRAM GUIDE  
ADULT, CHILDREN AND FAMILY CLASSES



Explore & discover the world of nature.

January – June 2011

# GARDENING AND HORTICULTURE

## HOME HORTICULTURE CERTIFICATE PROGRAM

Every garden is a unique combination of the gardener, the climate, the site, and the soil. The Home Horticulture Certificate program will give you the knowledge and skill to select plants successfully, develop and grow your landscape garden, and then maintain the garden and plants.

The program will focus on practical knowledge presented in lectures, demonstrations, field experiences, and design projects. You will master the gardening techniques best suited to North Carolina and enjoy learning from local experts while meeting other gardeners from your community.

Look for certificate classes with a note at the end of the course description, Home Horticulture Certificate (required or elective) course, to know which courses apply.

For a complete program description please go to [gardens.duke.edu](http://gardens.duke.edu) or call **919-668-5309**.

## PLANTING THE LANDSCAPE: DESIGN II



*Jan Little, Director of Education and Public Programs, Sarah P. Duke Gardens*

In *Design Your Home Landscape I* we completed the initial steps of a landscape design. In this class you will complete the planting design. We will study plant combinations and evaluate the use of color and texture in your design.

**Prerequisite:** Design Your Home Landscape I

**3 Thursdays**, Jan. 20 – Feb. 3, 2011, 6-9 pm

**Location:** Doris Duke Center

**Elective course Home Horticulture Certificate**

**Participant Limit:** 15

**Fee:** \$110; Friends \$90

## BEYOND THE SURFACE: Soil Demystified



*William Cullina, author and Director of Horticulture/Plant Curator at The Coastal Maine Botanical Gardens, previously the Nursery Manager at Niche Gardens in Chapel Hill*

The focus of this talk is the wonderful world of soil physics, more specifically the interaction of water, air, temperature, and soil components. Soil is everything, as far as plants are concerned, and a basic understanding of soils as they relate to horticulture is vital to a well-rounded gardener. Workshop will cover everything from mycorrhizae and other soil organisms to fertilization, soil structure, pH, and how they all interact to produce healthy or unhealthy plants. You will never look at dirt the same way again.

**Saturday**, Feb. 12, 2011, 9 am-noon.

**Location:** Doris Duke Center

**Participant Limit:** 20

**Fee:** \$70; Friends \$55



## THE BOTANY OF DESIGN

*William Cullina, author and Director of Horticulture/Plant Curator at The Coastal Maine Botanical Gardens, previously the Nursery Manager at Niche Gardens in Chapel Hill*

Bill Cullina tackles the thorny subject of garden design in a completely different way, using his latest book, *Understanding Perennials*, as a starting point. In this fun and information filled talk he explores such things as the reasons for big leaves, variegation, red foliage and flowers and ways to create more satisfying designs without breaking the budget. He looks at life beyond the color wheel, and the importance of healthy soil. Bill will reveal some of his best horticultural secrets while weaving together aesthetics, psychology, botany, and ecology into a fascinating ride. It is a talk that beginning gardeners as well as seasoned pros will both learn from and enjoy.

**Saturday**, Feb. 12, 2011, 3-5 pm.

**Location:** Doris Duke Center

**Fee:** \$35; Friends \$30

## SPRING PRUNING

*Jonathan Smith, Bright Leaf Landscaping*

Some plants simply must be rehabilitated through skillful pruning. Jonathan will demonstrate several pruning techniques, including renewal pruning, on a number of shrubs, so you may learn how to manage the plants in your home garden.

**Thursday**, March 10, 2011, 1-4 pm

**Location:** Doris Duke Center

**Participant Limit:** 15

**Fee:** \$30; Friends \$25

**Elective course Home Horticulture Certificate**

## SEASON-LONG BLOOM

*Lauri Lawson, Niche Gardens, Chapel Hill*

Expand the palette of plants in your garden and enjoy color all season long. Lauri brings considerable plant and design skills to introduce you to a variety of plants and planting combinations that will enliven your garden. This class will feature plants that thrive in Southern gardening conditions.

**Tuesday**, April 5, 2011, 6:30-9 pm

**Location:** Doris Duke Center

**Participant Limit:** 24

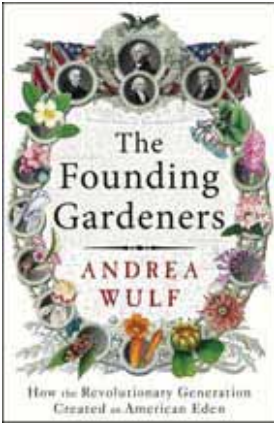
**Fee:** \$20; Friends \$15

**Elective course Home Horticulture Certificate**

## SPRING PLANT AND CRAFT FESTIVAL • April 30, 2011

Browse the booths, purchase your spring plants, and get gardening questions answered. Call 919-684-3698 for more information.

## The Annual Taimi Anderson Lecture 2010:



### THE FOUNDING GARDENERS: The Revolutionary Generation, Nature and the Shaping of the American Nation

*Andrea Wulf, British Author*

The Founding Gardeners offers a fascinating look at the revolutionary generation from the unique and intimate perspective of their lives as gardeners, plantmen and farmers. For the founding fathers, gardening, agriculture and botany were elemental passions, as deeply ingrained in their characters as their belief in liberty for the nation they were creating. Andrea Wulf reveals for the first time this aspect of the revolutionary generation.

Andrea will be available to sign books after her lecture.

Andrea Wulf is the award-winning author of three garden history books. All her books look at the relationship between gardens and wider political, social and cultural issues, focusing on the human stories, adventures and obsessions.

**Thursday,** April 14, 2010, 7-9 pm

**Location:** Doris Duke Center

**Fee:** \$20; Friends \$15.

**Tickets:** Please call Duke Box Office  
919-684-4444 or [ticketsduke.edu](http://ticketsduke.edu)

*This event is sponsored by Friends of the Duke University Library and Sarah P. Duke Gardens.*

**The Taimi Anderson Lecture** was created to honor the contribution of Taimi Anderson in beginning the education program at the Sarah P. Duke Gardens. The robust program we enjoy today would not exist without her vision and effort.

## 20 Years of Volunteerism: join us and add a little Volunteer TLC!

The individuals who volunteer their time and expertise here at Sarah P. Duke Gardens add greatly to the visitor experience. In appreciation of this contribution, Duke Gardens will offer each eligible volunteer 15 hours of class time.

For information about volunteering, please see **Chuck Hemric, Director of Volunteers, 919-668-1705.** Thank you.



## LANDSCAPE PLANTS FOR NORTH CAROLINA GARDENS

*Bobby Mottern, MLA and Director of Horticulture, Sarah P. Duke Gardens*

Expand your palette of ornamental plants! Each season this class will cover another group of approximately 40 plants suitable for North Carolina gardens. You will learn identification skills, design use, and plant culture. Each student will receive a portfolio of photos showing the plants studied that season.

### SPRING

**4 Thursdays**, April 14 – May 5, 2011, 10 am-noon

**Location:** Doris Duke Center

**Required course** Home Horticulture Certificate

**Participant Limit:** 15

**Fee:** \$105; Friends \$85

### SUMMER

**4 Thursdays**, June 2 – 23, 2011, 10 am-noon

**Location:** Doris Duke Center

**Required course** Home Horticulture Certificate

**Participant Limit:** 15

**Fee:** \$105; Friends \$85



## BASIC BOTANY AND PLANT GROWTH

*Christine Davis, Ph. D. Botany*

How does a plant grow? How does it manage water and nutrients? What factors influence the production of flowers and fruits? This course will explore these questions and more using a combination of lecture and hands-on approaches. You will leave with an appreciation of how a plant responds to its environment, and how horticultural techniques influence plant development.

**4 Saturdays**, June 4 – 25, 2011, 9:30 am-12:30 pm

**Location:** Duke Gardens greenhouse classroom

**Required course** Home Horticulture Certificate

**Participant Limit:** 15

**Fee:** \$120; Friends \$100

# GARDENING AND HORTICULTURE

## ROSE CARE AND PRUNING

*David Pike, Witherspoon Rose Culture, Durham*

Roses are unique, in their history and in the inspiration people find in their flower and scent. Join us to learn how to garden with roses and create the most vigorous growth and flowering for your enjoyment.

**Thursday,** Feb. 24, 2011, 1-4 pm

**Location:** Doris Duke Center

**Participant Limit:** 15

**Fee:** \$25; Friends \$20

## SPRING FLOWER WALK IN THE ARBORETUM

*Paul D. Jones, Curator of the Culberson Asiatic Arboretum, and Michelle Rawlins, Horticulturist, Sarah P. Duke Gardens*

The Asiatic Arboretum holds many fascinating plants, displayed in beautiful and ever-changing combinations. Join our expert staff as they guide you to some of the little known garden spaces and unique plants. You will enjoy the arboretum in an entirely new way.

**Fridays,** March 11 or April 8, 2011, 10 am

**Location:** Doris Duke Center

**Participant Limit:** 15

**Fee:** \$5; Friends free  
(registration required)

## HISTORIC GARDENS COLOR WALK

*Harry Jenkins, Superintendent of Horticulture, Mike Owens, Curator of Historic Gardens, and Jan Watson, Horticulturist, Sarah P. Duke Gardens*

Join our expert staff in a casual walk through a variety of garden spaces to learn more about what is currently in bloom, and the most successful seasonal plant combinations. Color walks will focus on the Perennial Allée, Historic Terraces, Butterfly Garden, and Memorial Garden.

**Thursdays,** April 7 or May 12, 2011, 9-11 am

**Location:** please meet at the Doris Duke Center

**Participant Limit:** 15

**Fee:** \$5; Friends free  
(registration required)





## The Master Gardeners' EXTENSION GARDENER SERIES

*Sponsored in partnership with the Durham County Cooperative Extension Service*

**Presented by Master Gardeners of Durham County.** Please see Extension website for complete program information at [www.durham.ces.ncsu.edu](http://www.durham.ces.ncsu.edu)

### Section A: Jan. 9, 2011, MAINTAINING THE LAND: A GARDENER'S GUIDE TO LANDSCAPE MAINTENANCE AND MANAGEMENT

**Presented by Michelle Wallace**, Durham County Horticulture Agent, NC Cooperative Extension

Learn to develop a year-round plan to manage your garden, anticipate potential problems, and develop sound solutions in this presentation about gardens and the environment.

### Section B: Feb. 20, 2011, PERMACULTURE

**Presented by Darcey Martin**, Durham County Extension Master Gardener Volunteer

Enjoy the bounty of the earth and protect its future by using permaculture strategies to balance gardening goals with environmental concerns.

### Section C: March 20, 2011, COOL PERENNIALS FOR COOL PLACES

**Presented by Kit Flynn and Rick Fisher**, Durham County Extension Master Gardener Volunteers

Let Kit and Rick introduce you to a range of interesting and unique perennials to expand the palette of plants in your garden. Their focus will match plant to site.

**Sunday** afternoons from 2-4 pm

**Location:** Doris Duke Center

**Fee:** Free (registration required)

# GARDENING AND HORTICULTURE



## HERBS FROM THE GARDEN

*Jan Watson, Horticulturist, Sarah P. Duke Gardens*

Colorful, scented, and flavorful – herbs literally add the spice to your life. Join Jan to see and taste herbs and simple preparations you can easily make at home. Jan always surprises us with several unique recipes that everyone wants to try at home. Class includes a walk down to the herb garden in the Terraces.

**Friday,** June 17, 2011, 2-4 pm

**Location:** Doris Duke Center

**Participant Limit:** 15

**Fee:** \$25; Friends \$20

## GARDENS OF THE DORIS DUKE CENTER

*Jason Holmes, Curator of the Doris Duke Center Gardens, and Tamara Kilbane, Horticulturist and water garden specialist, Sarah P. Duke Gardens*

Join staff members to see what we have planned for the container and garden display areas around the Doris Duke Center. Jason and Tamara will introduce you to innovative planting combinations in planters and garden beds. Each season is different, so plan to attend all sessions.

**Fridays,** May 27 or June 24, 10 am

**Fee:** \$5; Friends free (registration required)

**Participant Limit:** 15

## J.C. RAULSTON ARBORETUM

*Garden Tours*

A special opportunity to see one of the largest, most diverse collections of landscape plants adapted for landscape use in the Southeast. We have timed this trip to take advantage of the redbud collection and hope to catch most of them in bloom (there are more than 30 different species and varieties!). The J.C. Raulston staff will meet us for a "Behind-the-Scenes" tour, ending at the beautiful Ruby C. McSwain Education Center for light refreshments while we get our last few questions answered. Motorcoach transportation provided.

**Sunday,** April 17, 2011, 1-5 pm.

We depart from Sarah P. Duke Gardens at 1 pm and return by 5 pm

**Participant Limit:** 30

**Fee:** \$40; Friends \$30



## MONTROSE GARDENS: THE SUNNY BORDER

### *Garden Tours*

Visit Montrose, a local treasure and a nationally known estate garden, for a tour with owner Nancy Goodwin and staff members. Montrose was begun in the mid-19th century by Gov. William Alexander Graham and his wife, Susan Washington Graham. It includes a rock garden, scree garden, woodland plantings and large areas of sunny gardens with unique color and planting schemes. We have scheduled this tour to coincide with a seasonal crescendo in the Sunny Border. Unusual trees and trellises, fences and arbors enhance the gardens. Meet at Duke Gardens for a prompt 9:30 am departure. Transportation provided on a motorcoach bus. We will return to Duke Gardens by 1 pm. Snack provided. Plants propagated at Montrose will be available for purchase.

**Friday**, May 20, 2011, 9:30 am-1 pm

**Fee:** \$35; Friends \$25

**Participant Limit:** 30

A photograph of a garden scene featuring a white statue of a child in a blue dress, surrounded by various plants and trees.

## GARDEN PARTNERS

Sarah P. Duke Gardens is pleased to welcome the following horticulture partners. Each group is independent of the Gardens but welcomes our visitors and members to join them in learning more about horticulture. No registration required.

## DURHAM GARDEN FORUM

The *Durham Garden Forum* is an informal group, meeting once a month to enrich the members' gardening knowledge and skill. Local experts are invited to speak about topics of interest to the group. **Meeting dates;** Jan. 18, *Container Vegetable Gardens*; Feb. 15, *Deer Resistant Plants*; March 15, *Summer and Fall Bulbs*; April 19, *Tropical Trends*; May 17, *Making the Grade*; June 21, *Container Gardening*.

Tuesdays; 6:30-8 pm. Doris Duke Center. Forum members free/General Public \$10.

## TRIANGLE ORCHID SOCIETY

The *Triangle Orchid Society* conducts their monthly meeting at the Doris Duke Center. Please contact them directly for more information at [www.triangleorchidsociety.org](http://www.triangleorchidsociety.org).

## SARAH P. DUKE CHAPTER 264 OF IKEBANA INTERNATIONAL

Meet the 4th Wednesday of each month, 1-3 pm. Doris Duke Center.



## IKEBANA DEMONSTRATION

*Karen Chevrotee, Teaching Certificate and the 4<sup>th</sup> Master Certificate in the O'Hara School*

Observing a Master's demonstration, using her knowledge and artistic sense, can be quite entertaining and educational, even if one is not a student of Ikebana. Demonstration will be followed by a question and answer session.

**Wednesday**, Feb. 23, 2011, 2-4 pm.

**Location:** The Doris Duke Center

**Fee:** \$30; Friends and Ikebana Chapter members \$25

## FLORAL DESIGN FOR FUN I (Introductory level course)

*Theo Roddy, Presenter, Sarah P. Duke Gardens*

Learn the basics of floral design while you create various types of beautiful flower arrangements to take home and enjoy. Instruction will cover the use of fresh, silk and dried flowers, and matching flowers to container. Each week students will be asked to bring a particular style of container and flowers with which they can work. All other supplies are provided.

**6 Fridays**, April 22 – May 27, 2011, 10 am-12:30 pm

**Location:** Doris Duke Center

**Participant Limit:** 15

**Fee:** \$105; Friends \$85

## FLORAL DESIGN II

*Theo Roddy, Presenter, Sarah P. Duke Gardens*

For those who have taken the introductory course and want to continue refining and developing their skills. Participants bring flowers and container each week and create an arrangement to enjoy at home. Supplementary materials provided.

**4 Fridays**, June 3 – 24, 2011, 10 am-noon

**Location:** Doris Duke Center

**Participant Limit:** 15

**Fee:** \$70; Friends \$55

## SPRING FLOWER BASKET

*Jay Stolz, Florist and Gardener*

Jay will work with you to design a gardenscape in a basket, with growing grass, sprouting vines and fresh flowers – a holiday centerpiece perhaps. All supplies included.

**Thursday**, April 21, 2011, 3-5 pm

**Location:** Doris Duke Center

**Participant Limit:** 15

**Fee:** \$55; Friends \$40



# BOTANICAL ART AND CRAFT

## DRAWING FROM NATURE



*Kathy Tobias, Nature Artist and Teacher*

One way to truly know an object is to draw it. And drawing is fun, opening up your mind and eye to new ways of seeing the world around you. Practice and refine your drawing skills with Kathy's help. Each week the class will work with a different focus to understand texture, light, shape, composition, and documentation.

**5 Thursdays**, April 28 – May 26, 2011, 9 am-noon

**Location:** Doris Duke Center

**Elective course Master Naturalist Certificate**

**Participant Limit:** 15

**Fee:** \$165; Friends \$135

## HERB PLANTER



*Jay Stolz, Florist and Gardener*

Join us to design and plant a container herb garden to enjoy all summer or give as a Mother's Day gift. Jay will work with you to select and arrange the plants in your container for both function and beauty. All supplies included.

**Thursday**, May 5, 2011, 3-5 pm

**Location:** Doris Duke Center

**Participant Limit:** 15

**Fee:** \$55; Friends \$40

## CREATE A LIVING CARPET: SEDUMS AND SUCCULENTS



*Jay Stolz, Florist and Gardener*

Beautiful container plantings and living wreaths of sedums and succulents have been featured in various magazines and catalogs. Create a living wreath, globe, or living carpet for your trough or other container with an assortment of succulents. All supplies included, except trough planters.

**Thursday**, May 19, 2011, 3-5 pm

**Location:** Doris Duke Center

**Participant Limit:** 15

**Fee:** \$55; Friends \$40

## BUY, DRAW, EAT



*Kathy Tobias, Nature Artist and Teacher*

Using the bounty of the Durham Farmers Market we will compose and then draw a scene with fresh produce. Class will focus on composition and using color and light to illustrate a vegetable. Once we have completed our drawings we will make a big salad and enjoy lunch together while we view each other's work.

**Thursday**, June 2, 2011, 9 am-1 pm

**Location:** Doris Duke Center

**Participant Limit:** 15

**Fee:** \$30; Friends \$25

## SPRING PLANT AND CRAFT FESTIVAL • April 30, 2011

Browse the booths, purchase your spring plants, and get gardening questions answered. Call 919-684-3698 for more information.

## MASTER NATURALIST CERTIFICATION PROGRAM



There is a fascinating story to be learned about how our North Carolina environment was formed and the challenges it faces today. Explore with us the geology, flora, and fauna, and marvel at the beauty of the Old North State.

The goal of the Master Naturalist Certificate program is to develop your knowledge about the functions of our natural world. These skills will also be useful if you volunteer in natural

areas, assist with natural landscape maintenance and management tasks, or instruct others.

In response to student and instructor evaluations we have updated the certificate requirements. All continuing students will be credited for course work already completed.

The certificate leads you through a series of six core courses and then allows you to shape the program to suit your interests through your choice of elective courses. A complete program description and enrollment form is available at the Doris Duke Center Information Desk. Classes are open to all; you are not required to enroll in the certificate program to enroll in certificate courses.

The program is directed to all levels of interest, from beginning to experienced naturalist.

## WINTER BOTANY



*Ken Moore, former Assistant Director, NC Botanical Garden*

The winter season is a beautiful time to identify plants; they are pared down to their essence and you can enjoy the bark and twig colors, the buds holding next year's growth, and the seeds remaining from the previous growing season. Spend some time out in the Gardens and Duke Forest with Ken Moore to learn the secrets of winter botany. Text provided: *Winter Tree Finder* by May Watts.

**2 Sundays**, January 23 – 30, 2011, 1-4 pm  
(snow date Feb. 6)

**Location:** Doris Duke Center

**Elective course Master Naturalist Certificate**

**Participant Limit:** 15

**Fee:** \$100; Friends \$80

## GEOLOGY: THE ECOLOGY OF CHANGE

(Previously titled *Geology of the Piedmont*)

*Tyler Clark, Geologist*

There are millions of years of geologic evolution that have formed the topography and soils of the Piedmont. You will discuss the forces that have acted on our land and build your understanding of the rock formations that underlie the various soils and provide the basis for the different plant communities in the Piedmont. Field trip will allow you to see the processes and results in the landscape. Activity level: moderate hiking, including stepping across a stream.

**3 Wednesdays**, Feb. 9 & 16 and March 9, 2011, **Participant Limit:** 15  
6:30-9 pm, and field study **Saturday**, March 5, 2011, **Fee:** \$95; Friends \$75  
10 am-2 pm

**Location:** Doris Duke Center

**Required course Master Naturalist Certificate**

## HERBARIA TOURS: DUKE UNIVERSITY AND UNIVERSITY OF NORTH CAROLINA

Across the world Herbaria hold centuries of collected plant specimens. These collections provide researchers with basic information that allows us to extend our knowledge about plants and the world's biodiversity. Learn how botanists collect, study, and share information from collected plants. See samples, learn how to make your own samples and discuss what we are now learning about plants from molecular studies.

### UNC Herbarium

*Alan Weakley and Carol Ann McCormick, UNC Herbarium*

Join us as we tour one of the largest collections in the southeastern United States.

**Saturday**, Feb. 26, 2011, 9:30 am-1 pm **Participant Limit:** 15  
Transportation will be provided, **Fee:** \$18; Friends \$15  
meet at Sarah P. Duke Gardens

**Elective course Master Naturalist Certificate**

### Duke Herbarium

*Layne Huiet, Senior Research Scientist and Collections Manager Duke University*

Join us to discuss the large collections of vascular plants, bryophytes, algae, lichens, and basidiomycete fungi held in this collection.

**Friday**, March 4, 2011, 3-4:30 pm **Participant Limit:** 15  
Meet at the Gardens to walk **Fee:** \$10; Friends \$5  
over to the Biology Department

**Elective course Master Naturalist Certificate**

	Class titles: listed by start date only	Start date	Page
<b>January</b>	Walk on the Wild Side tour	1/6/2011	17
	Extension Gardeners' Series: Maintaining the Garden	1/9/2011	7
	Durham Garden Forum: Container Vegetable Gardens	1/18/2011	9
	Planting the Landscape: Design II, 3 Thursdays	1/20/2011	2
	Digital Photography, 3 Thursdays	1/20/2011	18
	Winter Botany, 2 Sundays	1/23/2011	12
	Ikebana Chapter meeting	1/26/2011	9
<b>February</b>	Walk on the Wild Side tour	2/3/2011	17
	Nature for Sprouts, 4 Fridays	2/4/2011	24
	Geology: The Ecology of Change, 3 Wednesdays & 1 Saturday	2/9/2011	13
	Photoshop for Nature Photographers, 3 Fridays	2/11/2011	19
	Beyond the Surface: Soil with Bill Cullina	2/12/2011	2
	The Botany of Design with Bill Cullina	2/12/2011	3
	Durham Garden Forum: Deer Resistant Plants	2/15/2011	9
	Traditional Japanese Tea: First Voice of Spring	2/18/2011	21
	Extension Gardeners' Series: Permaculture	2/20/2011	7
	The Impact of Nature Photography, 3 Tuesdays	2/22/2011	19
	Ikebana Chapter meeting	2/23/2011	9
Ikebana Demonstration with Karen Chevrotee	2/23/2011	10	
Rose Care & Pruning	2/24/2011	6	
Herbaria Tour: UNC Herbarium	2/26/2011	13	
<b>March</b>	Walk on the Wild Side tour	3/3/2011	17
	Herbaria Tour: Duke Herbarium	3/4/2011	13
	Traditional Japanese Tea: Dolls Festival	3/5/2011	21
	Spring Pruning	3/10/2011	3
	Spring Flower Walk in the Arboretum	3/11/2011	6
	Nature Story Time	3/12/2011	24
	Durham Garden Forum: Summer and Fall Bulbs	3/15/2011	9
	School Tours: March 16 – Nov. 16	3/16/2011	22
	Extension Gardeners' Series: Cool Perennials for Cool Places	3/20/2011	7
	Ikebana Chapter meeting	3/23/2011	9
	Spring Awakenings Photography	3/26/2011	19
Arts in the Garden: Duke's Hoof 'n' Horn	3/26/2011	24	
Early Spring Jewels: Field Studies Trip	3/27/2011	16	
<b>April</b>	School Tours: March 16 – Nov. 16	4/1/2011	22
	Nature Ranger Cart, drop in program	4/1/2011	26
	Local Flora: Spring, 4 Saturdays	4/2/2011	16
	Herp Hunt Field Studies Trip	4/2/2011	16
	Cherry Blossom Festival	4/3/2011	21
	Season-Long Bloom	4/5/2011	3
	Historic Gardens Color Walk	4/7/2011	6
	Walk on the Wild Side tour	4/7/2011	17
	Nature Ranger Cart, drop in program	4/8/2011	26
	Spring Flower Walk in the Arboretum	4/8/2011	6
	Nature for Sprouts, 4 Fridays	4/8/2011	24
	Bird Walk in the Gardens	4/9/2011	17
	Nature Story Time	4/9/2011	24
	Landscape Plants: Spring, 4 Thursdays	4/14/2011	5
	The Founding Gardeners lecture by Andrea Wulf	4/14/2011	4
	Nature Ranger Cart, drop in program	4/15/2011	26
	Nature for Sprouts	4/15/2011	24
	Sunday Science, drop in program	4/17/2011	26
Garden Tour: J.C. Raulston Arboretum	4/17/2011	8	
Durham Garden Forum: Tropical Trends	4/19/2011	9	

	Class titles: listed by start date only	Start date	Page
April	Spring Flower Basket	4/21/2011	10
	Floral Design for Fun I, 6 Fridays	4/22/2011	10
	Nature Ranger Cart, drop in program	4/22/2011	26
	Nature for Sprouts	4/22/2011	24
	Traditional Japanese Tea: Spring Blossoms Tea	4/22/2011	21
	Sunday Science, drop in program	4/24/2011	26
	Introduction to Nature Photography, 2 Tuesdays & 1 Saturday	4/26/2011	20
	Ikebana Chapter meeting	4/27/2011	9
	Drawing from Nature, 5 Thursdays	4/28/2011	17
	Nature Ranger Cart, drop in program	4/29/2011	26
	Nature for Sprouts	4/29/2011	24
Bird Walk in the Gardens	4/30/2011	17	
May	Sunday Science, drop in program	5/1/2011	26
	School Tours: March 16 – Nov. 16	5/1/2011	22
	Walk on the Wild Side tour	5/5/2011	17
	Herb Planter	5/5/2011	11
	Nature Ranger Cart, drop in program	5/6/2011	26
	Traditional Japanese Tea: Boys' Day	5/6/2011	21
	Traditional Japanese Tea: Mother's Day / Children's Day	5/7/2011	21
	Sunday Science, drop in program	5/8/2011	26
	Photographing Plants, 2 Wednesdays & 1 Saturday	5/11/2011	20
	Historic Gardens Color Walk	5/12/2011	6
	Nature Ranger Cart, drop in program	5/13/2011	26
	Nature Story Time	5/14/2011	24
	Sunday Science, drop in program	5/15/2011	26
	Durham Garden Forum: Making the Grade	5/17/2011	9
	Create a Living Carpet: Sedums and Succulents	5/19/2011	11
	Garden Tour: Montrose Gardens, the sunny border	5/20/2011	9
	Nature Ranger Cart, drop in program	5/20/2011	26
	Improving Photo Quality, Saturday & Sunday	5/21/2011	20
Sunday Science, drop in program	5/22/2011	26	
Ikebana Chapter meeting	5/25/2011	9	
Gardens of the Doris Duke Center tour	5/27/2011	8	
Nature Ranger Cart, drop in program	5/27/2011	26	
FAMILY FUN DAY: Spring, drop in festival	5/28/2011	26	
Arts in the Garden: Paperhand Puppet Intervention	5/28/2011	24	
June	School Tours: March 16 – Nov. 16	6/1/2011	22
	Buy, Draw, Eat	6/2/2011	11
	Landscape Plants: Summer, 4 Thursdays	6/2/2011	5
	Walk on the Wild Side tour	6/2/2011	17
	Floral Design II, 4 Fridays	6/3/2011	10
	Basic Botany and Plant Growth, 4 Saturdays	6/4/2011	5
	Nature Adventure Camp: Animals In The Garden, 5 days	6/13/2011	25
	Herbs from the Garden	6/17/2011	8
	Nature Adventure Camp: Animals In The Garden, 5 days	6/20/2011	25
	Durham Garden Forum: Container Gardening	6/21/2011	9
	Ikebana Chapter meeting	6/22/2011	9
Gardens of the Doris Duke Center tour	6/24/2011	8	
Nature Adventure Camp: Animal Homes, 5 days	6/27/2011	25	
July	Nature for Sprouts, 4 Fridays	7/8/2011	24
	Nature Adventure Camp: Drawing On Nature, 5 days	7/11/2011	25
	Teacher Training: The Nature of Art and the Art of Nature	7/26/2011	23
	Teacher Training: The Nature of Art and the Art of Nature	7/29/2011	23



## EARLY SPRING JEWELS: FIELD STUDIES TRIP

*Ken Moore, former Assistant Director, NC Botanical Garden*

To paraphrase Ralph Waldo Emerson: there are days, in almost any season, wherein the world reaches its perfection. We are hoping that this is one of those days as we hike around Penny's Bend looking for the dutchmans breeches, trout lily, and other signs of spring perfection. **Activity Level:** moderately strenuous.

**Sunday**, March 27, 2011, 9 am-1 pm  
Meet at the Gardens, transportation will be provided

**Participant Limit:** 15  
**Fee:** \$18; Friends \$15

**Elective course Master Naturalist Certificate**

## LOCAL FLORA: SPRING (previously titled Native Plants)

*Ken Moore, former Assistant Director, NC Botanical Garden*

North Carolina has one of the richest palettes of native plants anywhere in the world. Learn to recognize plants in their spring awakening phase. Field trips include observations of a variety of habitats, use of a key to identify plants, and notes of undesirable plants. *Tree Finder: A Manual for Identification of Trees by Their Leaves*, by May Theilgaard Watts, and all other supplies included in fee.

**4 Saturdays**, April 2, 16, 30, May 14, 2011,  
9 am-1 pm

**Participant Limit:** 15  
**Fee:** \$120; Friends \$95

**Location:** Doris Duke Center

**Elective course Master Naturalist Certificate**



## HERP HUNT: FIELD STUDIES TRIP

*Jeff Phippen, Nicholas School of the Environment*

What better way to spend a spring day? Class will assemble at Duke Forest to observe reptiles, including snakes and lizards, and other charming fellows at each of the installed coverboards. Coverboards, acting like rocks and logs, are utilized by many amphibians and reptiles for shelter. Our success will be very dependent upon the weather conditions of the day. Nevertheless, we will also observe signs of spring in the plants, wildflowers, birds, and elsewhere.

**Saturday**, April 2, 2011, 11 am-2 pm  
**Location:** directions and parking information to be sent to participants

**Participant Limit:** 15  
**Fee:** \$35; Friends \$30

**Elective course Master Naturalist Certificate**



## DRAWING FROM NATURE

*Kathy Tobias, Nature Artist and Teacher*

One way to truly know an object is to draw it. And drawing is fun, opening up your mind and eye to new ways of seeing the world around you. Practice and refine your drawing skills with Kathy's help. Each week the class will work with a different focus to understand texture, light, shape, composition, and documentation.

**5 Thursdays**, April 28 – May 26, 2011, 9 am-noon

**Location:** Doris Duke Center

**Elective course Master Naturalist Certificate**

**Participant Limit:** 15

**Fee:** \$165; Friends \$135

## WALK ON THE WILD SIDE

*Stefan Bloodworth, Curator, Blomquist Garden of Native Plants,  
Sarah P. Duke Gardens*

Explore wild North Carolina in the Blomquist Garden of Native Plants to see which plants are in bloom, learn strategies to design with native plants, and discuss regional ecology and your role in protecting the health of our home planet. **Please dress for the weather.**

**First Thursdays**, Jan. 6, Feb. 3, March 3,  
April 7, May 5 and June 2, 2011, 11 am-noon

**Location:** Doris Duke Center

**Participant Limit:** 15

**Fee:** \$5; Friends free  
(registration required)

## BIRD WALKS

*Cynthia Fox, Wild Bird Center, Chapel Hill*

Join Cynthia for an early stroll through the Gardens. Listen and learn to recognize many bird songs, spot the bird, and identify these wonderful songsters. This is an opportunity to learn more about birding, if this is a new venture for you, or a wonderful time to interact with fellow birders.

*(Children are welcome to register if they are 8 years old or older, accompanied by a registered adult.)*

**Please dress for the weather and bring your binoculars. In the event of questionable weather, call 919-668-1707.**

**Saturdays**, April 9 & 30, 2011, 8 am

**Location:** Meet at the Doris Duke Center

**Participant Limit:** 15

**Fee:** \$5; Friends free  
(registration required)

# NATURE PHOTOGRAPHY

## NATURE PHOTOGRAPHY CERTIFICATE PROGRAM



Nature Photographers possess a unique blend of technical knowledge and artistic vision. Their skills illustrate nature and build appreciation and understanding of the natural world for us all. To share your love of nature – with an ability to capture it in an image – is exhilarating.

The **Nature Photography Certificate Program** will help you refine and expand your knowledge of equipment, processes, composition, and methods. You will not only increase your skill but also your awareness of the beauty of our natural world.

Photographers of all experience levels, from beginner to advanced, using any type of photo equipment (film or digital), are encouraged to enroll in this program.

The Nature Photography certificate includes six core photography courses and three naturalist courses, plus two or more photography electives and a juried nature photography project. A complete program description and enrollment form is available at the Doris Duke Center information desk. Classes are open to all; you are not required to enroll in the certificate program to enroll in certificate courses.

## DIGITAL PHOTOGRAPHY: UNDERSTANDING DIGITAL CAMERA, CAMERA TO COMPUTER & PHOTO EDITING

(An introductory workshop for beginners)

*Jennifer Weinberg, Jennifer Weinberg Photography*

Learn how to operate your digital camera, with its various functions and menus. This class will cover all of your digital camera operations, including how to control your ISO settings and white balance, and loading, editing, and organizing photos on a computer. In addition, we will cover basic photography techniques like composition, framing and angle. Bring a CD with some of your pictures, and bring your own digital camera and its manual each session.

**3 Thursdays**, Jan. 20 & 27, Feb. 3, 2011, 6-9 pm

**Location:** Doris Duke Center

**Elective course Nature Photography Certificate**

**Participant Limit:** 15

**Fee:** \$110; Friends \$90

# NATURE PHOTOGRAPHY

## THE IMPACT OF NATURE PHOTOGRAPHY (previously titled History of Nature Photography)

*Jennifer Weinberg, Jennifer Weinberg Photography*

As you become acquainted with some of the great names and works in Nature Photography, you will also learn of the powerful influence nature photography has had in our country. For example, it was through nature photography that a compelling case was made for our national park systems. Develop your ideas and practice techniques first used by the masters.

**3 Tuesdays**, Feb. 22 – March 8, 2011, 7-9 pm.

**Location:** Doris Duke Center

**Required course Nature Photography Certificate**

**Participant Limit:** 24

**Fee:** \$75; Friend \$60

## PHOTOSHOP FOR THE NATURE PHOTOGRAPHER

*Paul Salazar, Nature Photographer*

The use of computer techniques in photography opens an entire new range of options. Learn about configuring Photoshop, using Camera Raw Image Processing, making selections and masking, darkroom effects, filters, and color management as you become familiar with Photoshop and some of its more useful features. Class will meet in a computer lab setting.

**3 Fridays**, Feb. 11 – 25, 2011, 1-4 pm

**Location:** computer lab directions to be sent

**Elective course Nature Photography Certificate**

**Participant Limit:** 12

**Fee:** \$120; Friends \$95

## SPRING AWAKENING: CLOSE-UP STRATEGIES

*Joshua Taylor, Jr., Archiphoto Photography*

Capture the awakening of spring from the long winter slumber. This one-day photography workshop will help you understand and effectively use garden photography strategies, including close-up techniques, to portray the unique quality of each bud, bloom, or insect emerging from the cold. Continental breakfast and lunch included.

**Saturday**, March 26, 2011, 8 am-4 pm

**Location:** Doris Duke Center

**Elective course Nature Photography Certificate**

**Participant Limit:** 15

**Fee:** \$150; Friends \$120



# NATURE PHOTOGRAPHY

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## IMPROVING PHOTO QUALITY

*Melissa Southern, Photographer, Fuquay-Varina, NC*

Stretch your skills and learn techniques that will improve the technical and artistic merit of your photographs. We will focus on understanding and manipulating the variables that go into making a quality photograph.

**Saturday & Sunday**, May 21 & 22, 2011, 8 am-2 pm    **Participant Limit:** 15  
**Location:** Doris Duke Center    **Fee:** \$110; Friends \$85  
**Required course Nature Photography Certificate**

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## INTRODUCTION TO NATURE PHOTOGRAPHY

*Jennifer Weinberg, Jennifer Weinberg Photography, Durham*

In nature photography you may capture and communicate your delight in a season, an object, or a moment in time. Discover the full possibilities of nature photography. Learn equipment basics, field strategies and techniques, exposure, lighting, and compositional skills. Class includes hands-on practice sessions and classroom reviews

**2 Tuesdays**, April 26 & May 3, 6-9 pm,  
and **Saturday**, April 30, 8 am-noon    **Participant Limit:** 15  
**Location:** Doris Duke Center    **Fee:** \$150; Friends \$120  
**Required course Nature Photography Certificate**

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## PHOTOGRAPHING PLANTS

*Paul Salazar, Nature Photographer*

Plants are complex objects. They are solid and transparent, both a single object and many very different parts, all interacting with the sun and wind. Learn to capture the beauty of plants in this class that will focus on composition and technique, including some unusual strategies.

**2 Wednesdays**, May 11 & 18, 2011, 6:30-9 pm,  
with **Saturday** field session May 14, 2011,  
8 am-noon    **Participant Limit:** 15  
**Location:** Doris Duke Center    **Fee:** \$135 ; Friends \$110  
**Required course Nature Photography Certificate**

# JAPANESE TEA GATHERINGS



## TRADITIONAL JAPANESE TEA GATHERING

*Nancy Hamilton, Urasenke Tradition of Tea*

Join us for a moment of respite in the Duke Gardens teahouse, where, as a guest to Tea, you will experience the warmth of a traditional Japanese tea gathering. Enjoy the aesthetics, poetry, and serenity of this rich tradition over an enticing bowl of whisked green tea and a Japanese confection. Guests will meet at the Doris Duke Center to be escorted to the teahouse for these intimate gatherings. On Saturdays, children 6 years and older are welcome with an accompanying adult at the family rate.

**Friday**, Feb. 18, 2011: First Voice of Spring Tea

**Saturday**, March 5, 2011: Dolls Festival Tea

**Friday**, April 22, 2011: Spring Blossoms Tea

**Friday**, May 6, 2011: Boys' Day Tea

**Saturday**, May 7, 2011: Mother's Day/  
Children's Day Tea

10:45 a.m. - noon

**Location:** Doris Duke Center

**Participant Limit:** 10

**Fee:** \$30; Friends \$25;

Family rate \$35 per  
adult and child

## CHERRY BLOSSOM FESTIVAL



*Co-sponsored by the Asian/Pacific Studies  
Institute at Duke University*

Celebrate the cherry blossoms at our annual Grand Tea Gathering. Guests will enjoy a presentation of the tea tradition in an open-air garden setting. Festivities will feature Japanese taiko drumming and a display of traditional Japanese arts, including Japanese calligraphy inspired by haiku from young poets in our elementary schools.

**Sunday**, April 3, 2011, 11:30 am-2 pm.

**Location:** Angle Amphitheatre

**Participant Limit:** 50

**Fee:** \$10; Friends \$5;  
children \$5

## SCHOOL PROGRAMS

### REGISTRATION INFORMATION

Programs are available on a first-come, first-served basis. March 16 – Nov. 16, 2011, Tuesday through Friday mornings. Self-Guided programs are available year-round.

**Registration is required for all school groups.**

Please call us at least one month prior to your preferred date; calendars fill up quickly and we would like to serve your students at the highest possible level.

#### Fees:

- General Tours – Free
- Guided Programs – \$25 per class
- Self Guided Program fees listed by program descriptions

**Adult Chaperones:** We require one chaperone for every ten children and suggest more for preschool and kindergarten groups. Teachers and chaperones are expected to supervise the behavior of their group. Younger siblings are not allowed to accompany parent chaperones. Please review behavior guidelines with your students.

For more information and to register, by phone only, 919-668-1708. **Registration is required for all school groups.**

## GUIDED SCHOOL PROGRAMS

Our programs are designed to introduce students of all ages to the wonders and complexity of a garden environment. These programs are age appropriate and are correlated to the North Carolina Standard Course of Study. All programs are led by trained docents.

### Preschool through First Grade

- Scavenger Hunt
- Plant Explorers: in the Amphitheatre
- Flower Bingo

### Second through Fifth Grade

- General Tour
- Native Tales (4th grade)
- Name That Tree
- Plant Explorers: in the Amphitheater
- Tree Detectives
- Haiku Trail into the Gardens: in the Japanese Pavilion
- All About Flowers
- Tea Box in the Teahouse: in the Japanese Pavilion

### Middle School & High School Specialty Tours

- General Tour
- Learn Culture Through Design: Asiatic Tour
- Behind the Scenes Tour

**For full program descriptions, conduct guidelines, and to access Pre- & Post-Visit Activities, go to [gardens.duke.edu](http://gardens.duke.edu).**

**SELF-GUIDED PROGRAMS:** Lead your class using one of our self-guided program booklets. All programs are age appropriate and correlated to the North Carolina Standard Course of Study. Materials will be supplied for each child, with a map and parking pass for your group's visit.

- **Become a Garden Detective Guide** (for non-readers) 50¢ per copy
- **Garden Habitat Guide** ( for 1st-4th grades) 50¢ per copy
- **Student Activity Guide:** many activities for 2nd-5th grades. \$1.50 per copy
- **Discovery Detective Walk Guide** (for 2nd-5th grades) \$1.50 per copy
- **Learn Culture through Design: Asiatic Arboretum Guide** (for 4th grade – high school students) \$5.00 per copy

**CLASSROOM PROGRAMS:** Explore a variety of garden-related topics with a program that correlates with the North Carolina Course of Study.

- **Leaves Different and Alike** (Pre-K to K)
- **Herbal Adventures** (3rd & 4th grade)
- **Mystery Homes** (1st grade)
- **Pond Food Web** (5th grade)
- **Flower Power** (2nd grade)

## CAPS OUTREACH TO YOUR SCHOOL PROGRAM

*in partnership with the CAPS Programs of the Durham Arts Council*

These programs provide an easy-to-use and effective way to integrate nature science into your classroom curriculum. Durham Public Schools budgets up to \$2 per elementary and middle school student, and up to \$1 per high school student, to use on these programs. All registration is managed through the CAPS office (919) 560-2718. Fax registration forms are available online at [www.durhamarts.org](http://www.durhamarts.org).

- **Exploring Leaves** (Kindergarten)
- **Trees Alive** (3rd-5th grade)
- **Flower Discovery** (1st & 2nd grade)
- **The Art of Tea** (customized for all grades)

## TEACHER TRAINING – July 26 or July 29, 2011

**THE NATURE OF ART AND THE ART OF NATURE: Connecting Visual Arts and Natural Science in the Elementary School Classroom and Beyond**

*Presented in partnership with the Nasher Museum of Art*

- K-4th grade teachers, homeschoolers, and informal educators welcome to register
- 9 am-4 pm
- **Location:** Sarah P. Duke Gardens and the Nasher Museum
- Advance registration required
- **Fee:** \$20, includes all materials, handouts, and instruction. **Lunch available for an additional \$10**
- CEU documentation available

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## ARTS IN THE GARDEN PERFORMANCE SERIES SPRING 2011

Tickets available from Duke University Box Office at 919-684-4444.

**Fee:** \$10 for adults & \$6 for children under 16

### DUKE'S HOOF 'n' HORN TROUPE

"The Frog Prince," musical theater

- **Saturday, March 26, 11 am**

### PAPERHAND PUPPET INTERVENTION – Puppet Theater and Parade

- **Saturday, May 28, 1 pm**

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## NATURE FOR SPROUTS – NEW Expanded Offerings

### Nature explorations for 3-, 4-, & 5- year-olds

Join us for a month of Friday morning programs for young nature explorers through the seasons. Programs will incorporate stories, movement, music, outdoor explorations, and creative projects to introduce young learners to garden ecology and plant science.

- **Winter Series:** Feb. 4, 11, 18, 25
- **Spring Series:** April 8, 15, 22, 29
- **Summer Series:** July 8, 15, 22, 29

**Time:** 10:30-11:30 am

**Location:** Brenda Brodie Children's Classroom. Summer Classes will meet behind the Doris Duke Center

**Registration required, download registration from website and send in with your payment.**

**Participant Limit:** 10. Children must be accompanied by an adult. Please make other arrangements for younger siblings

**Fee:** \$6 per class

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## NATURE STORY TIME

Gather for nature stories and a take-home creative project with your 3- to 8-year-old child.

**Time:** 10-11 am on the second Saturday of the month.

- March 12
- April 9
- May 14

**Location:** Brenda Brodie Children's Classroom

**Participant limit:** 15. Children must be accompanied by an adult

**Fee:** \$3 per child

**Registration required. Call 919-668-1708**

## NATURE ADVENTURES CAMP

### NEW Expanded offerings

Become a young naturalist through observation, exploration, and hands-on nature study in the Gardens. Learning about living communities, how nature works, and our interconnectedness is fun, exciting, and important.

**Registration required. Download registration form online and send with payment.**

### ANIMALS IN THE GARDEN

Observe, explore, and learn about who lives in the Gardens and the inter-connections they share. Find animal footprints, buzzing bugs, soaring seeds and the secrets of nature.

- **Session I:** June 13-17
- **Session II:** June 20-24

Half-Day Camp for 8- to 11-year-olds

9 am-1 pm

**Fee:** \$140; \$120 for Friends of Duke Gardens

### ANIMAL HOMES

Prowl your way around the Gardens and explore the habitats and hideaways of animals. Observe and discover all the habitats in the Gardens, and bring those ideas home to explore in your own back yard.

- **Session III:** June 27 – July 1

Half-Day Camp for 6- & 7-year-olds

9 am-1 pm

**Fee:** \$140; \$120 for Friends of Duke Gardens

### DRAWING ON NATURE

Explore nature in the Gardens through journaling. Sharpen observation skills with art, word play, and stories from the land while being inspired by nature all around.

- **Session IV:** July 11-15

Half-Day Camp for 12- & 13-year-olds

9 am-1 pm

**Fee:** \$140; \$120 for Friends of Duke Gardens

**For full program descriptions, conduct guidelines, and to access Pre- & Post-Visit Activities, go to [gardens.duke.edu](https://gardens.duke.edu).**

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## FAMILY BACKPACKS

Explore the Gardens as a family. Check out a backpack from the information desk in the Doris Duke Center. Full of fun garden activities for children of all ages.

**Fee:** \$5 with driver's license and refundable deposit.

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## NATURE RANGER CART

Traveling cart in the Gardens full of creative adventures for visitors.

- **Spring:** 10 am - noon Friday mornings
- April 1, 8, 15, 22, 29
- May 6, 13, 20, 27

**Fee:** Free to all visitors

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## SUNDAY SCIENCE

Join us in the Garden on Sundays for simple drop-in science or craft projects, which include something to make and take home.

- April 17, 24
- May 1, 8, 15, 22

11 am-2 pm; location noted each week at the information desk in the Doris Duke Center

**Fee:** Free to all visitors

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## SPRING FAMILY FUN DAY

Science and craft activity stations and events throughout the Gardens.

- Sunday, May 28, 11 am-2 pm

See **ARTS IN THE GARDEN PROGRAM**, scheduled for same day. The performance is a ticketed event, see description above. Paperhand Puppet Intervention will also conduct a parade open to all participants in the Family Fun Day.

For more details contact: **Annie Nashold**

Director of Children's Education & Family Programs  
919-668-1708 or [anashold@duke.edu](mailto:anashold@duke.edu)

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For full program descriptions, conduct guidelines, and to access  
Pre- & Post-Visit Activities, go to [gardens.duke.edu](http://gardens.duke.edu).





## SARAH P. DUKE GARDENS

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*Sarah P. Duke Gardens creates and nurtures an environment  
in the heart of Duke University for learning, inspiration  
and enjoyment through excellence in horticulture.*