join us at **SARAH P. DUKE GARDENS**

**SPRING & SUMMER 2017**

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**Photo credits:**

- Cover photo by Kavanah Anderson
letter from the
DIRECTOR OF EDUCATION & PUBLIC PROGRAMS

Sarah P. Duke Gardens is a place where art and science meet. This spring season, more than others, brings forth quick and captivating changes that make it a wonderful time to experience that connection.

Many visitors’ first impressions are focused on the beauty of plants, flowers and gardens. That beauty inspires joy and comfort, celebration and nostalgia in people. It also sparks curiosity as they stroll through the Gardens.

It is that curiosity that motivates us to learn more about the Earth and its inhabitants. Why do plants spend their energy growing beautiful flowers with lovely fragrances? Why are those insects scurrying around that plant, or that flower? How do plants continue to grow?

You can find the answers to those questions and many more here at Duke Gardens.

• The transformation of sunlight into the energy that builds our world is outlined in the new interpretive signs in the Charlotte Brody Discovery Garden.

• The Blomquist Garden of Native Plants includes information about rare and endangered plants, and plants useful for wildlife.

• The school program “Double Exposure” helps second graders understand the connection between art and science in a partnered program at the Gardens and Nasher Museum of Art.

• Simple exploration activities are available from Gardens Ambassadors to help launch visitors into a world of curiosity and wonder at Duke Gardens.

• Children and Family programs are full of exciting opportunities to explore science and art. See page 10 and page 23.

• Adults can join us to learn more about the fascinating new research on the microbiology of healthy soil or the benefits of Shinrin Yoku meditative walks. See pages 29 and 32.

Come enjoy spring at the Gardens.

We will try to send you home with more answers than questions!

Jan Little
VISITING DUKE GARDENS

Celebrate the seasons and enjoy a beautiful and award-winning garden. You are welcome to enjoy the Gardens at your own pace, and the Visitor Guide & Map will give you information about all four areas of Duke Gardens. Additional information is available; please check at the Doris Duke Center or the Gothic Gate Kiosk.

PLEASE REGISTER YOUR GROUP VISIT: We ask that all groups of 15 or larger register with the Gardens so we may coordinate your activities with other groups scheduled for the same day. Please call 919-668-1707.

GARDEN TOURS: Tours fill up rapidly; we ask for advance reservations by 1 pm the previous day. Please call 919-668-1707 to make a reservation.

WALKING TOURS: The best way to see this garden is on foot, led by a knowledgeable Gardens docent. Walking tours give you the chance to explore all the diverse areas of Duke Gardens at a leisurely pace. Smell the flowers, enjoy the hidden gems and discover your favorite space in the Gardens. We can accommodate any size group with 1 docent per 15 participants.

TROLLEY TOURS: Trolley tours take you on a central path in the Gardens so you see the blooms of the day and learn more about the Gardens’ history. This tour cannot encompass the entire Gardens but will give you a beautiful overview. No minimum, but a maximum of 5 people in a shared trolley.

TOUR INFORMATION:
• Offered Tuesdays through Fridays, from mid-March through mid-November.
• 10 am, with an additional tour available at 2 pm in spring and fall.
• Allow for 1 to 1½ hours.
• $10 per person; advance reservations held with payment.
• All trolley tour participants must be seated with a seatbelt; children may not ride on an adult’s lap and car seats are not permitted.
• No pets allowed on trolley, with the exception of service dogs.

Duke Gardens is a museum of plants. Please help us care for this botanic garden and ensure that all visitors enjoy their time here by following posted policies.
SARAH P. DUKE GARDENS IS OPEN FROM 8 AM TO DUSK, 365 DAYS A YEAR.
ADMISSION: NO CHARGE; DONATIONS ARE APPRECIATED.
PARKING: THE FEES FOR PARKING HELP ENSURE THAT SPACES ARE AVAILABLE FOR GARDENS VISITORS.
DORIS DUKE CTR HOURS: 9 AM-6 PM MON.-FRI.; 9 AM-5 PM SAT.; NOON-5 PM SUN., EXCEPT HOLIDAYS.
GENERAL INFORMATION: 919-684-3698, OR GARDENS.DUKE.EDU
VOLUNTEERING IN THE GARDENS

Be a Force of Nature — Volunteer

Expand your knowledge of the natural world as you help connect people with the Gardens. Volunteers are essential at Sarah P. Duke Gardens, helping to create a better garden and a better community. Bring your interest, energy, knowledge and passion to Duke Gardens and help make each guest’s visit more beautiful and enriching.

Whether you are interested in gardening, visitor services, administrative support or education, volunteering at Duke Gardens is a way to give back to your community. You will meet people of similar interests, learn new skills and have fun.
If you are interested in joining the volunteer family at Duke Gardens, contact director of volunteer services Chuck Hemric at (919) 668-1705 or chemric@duke.edu to enroll in the next volunteer orientation and complete an application at gardens.duke.edu/support/volunteer.

**BENEFITS TO VOLUNTEERS:**
- The satisfaction of supporting a public garden and furthering Duke Gardens’ mission
- Increased garden skill/knowledge
- Invitations to Gardens events
- Education and gift shop discounts

Take a look at our membership information on page 9 and learn how you and your family can save 20% on our Education Programs today!
AN INVITATION TO MEMBERSHIP


Sarah P. Duke Gardens is enjoyed free of charge by more than 300,000 people annually. Over half of our yearly operating budget comes from people like you, who value all that this world-class botanic garden has to offer. Please consider the opportunity to support Duke Gardens by joining today.

All membership levels include these benefits:

- 20% discount on most education programs & free admission to select education programs and events
- Select member events
- 10% discount on Terrace Shop purchases
- Reciprocal admission benefits to nearly 300 gardens in North America
- Online access to Duke Gardens publications
- Free subscription to Better Homes & Gardens magazine

For more information please visit our website: gardens.duke.edu and select support, or call 919-684-5579.
### BASIC MEMBERSHIP LEVELS

<table>
<thead>
<tr>
<th>Membership Level</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duke students</td>
<td>$25</td>
</tr>
<tr>
<td>Individual</td>
<td>$50</td>
</tr>
<tr>
<td>Dual (spouses/partners)</td>
<td>$75</td>
</tr>
<tr>
<td>Family (includes children under age 18)</td>
<td>$100</td>
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</tbody>
</table>

All memberships are part of the Duke Annual Fund and are used entirely for the benefit of Duke Gardens. Duke alumni also receive reunion class gift credit.

### SUPPORTING MEMBERSHIP LEVELS

<table>
<thead>
<tr>
<th>Membership Society</th>
<th>Cost</th>
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</thead>
<tbody>
<tr>
<td><strong>TERRACES SOCIETY</strong></td>
<td>$250</td>
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<tr>
<td>Includes membership benefits above plus:</td>
<td></td>
</tr>
<tr>
<td>• Duke Gardens calendar</td>
<td></td>
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<tr>
<td>• 20% discount on Gothic Bookshop purchases (valid membership card required)</td>
<td></td>
</tr>
<tr>
<td>• 2 complimentary Dual gift memberships (please provide names &amp; addresses of recipients)</td>
<td></td>
</tr>
<tr>
<td>• Annual Report</td>
<td></td>
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<tr>
<td>• Flora magazine</td>
<td></td>
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<tr>
<td>• Invitations to special Friends events</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Membership Society</th>
<th>Cost</th>
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</thead>
<tbody>
<tr>
<td><strong>IRIS SOCIETY</strong></td>
<td>$500</td>
</tr>
<tr>
<td>Includes Terraces Society benefits plus:</td>
<td></td>
</tr>
<tr>
<td>• Duke Gardens note cards</td>
<td></td>
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<tr>
<td>• 2 complimentary registrations for a Gardens education program</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Membership Society</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PERGOLA SOCIETY</strong></td>
<td>$1,000</td>
</tr>
<tr>
<td>Includes Iris Society benefits plus:</td>
<td></td>
</tr>
<tr>
<td>• Complimentary Gardens parking</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Membership Society</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DIRECTORS SOCIETY</strong></td>
<td>$2,500</td>
</tr>
<tr>
<td>Includes Pergola Society benefits plus:</td>
<td></td>
</tr>
<tr>
<td>• Invitation to reception/dinner with a featured guest speaker</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Membership Society</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MARY DUKE BIDDLE SOCIETY</strong></td>
<td>$5,000</td>
</tr>
<tr>
<td>Includes Directors Society benefits plus:</td>
<td></td>
</tr>
<tr>
<td>• Invitation to a behind the scenes tour</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Membership Society</th>
<th>Cost</th>
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</thead>
<tbody>
<tr>
<td><strong>MARY D. B. T. SEMANS SOCIETY</strong></td>
<td>$10,000</td>
</tr>
<tr>
<td>Includes Mary Duke Biddle Society benefits plus:</td>
<td></td>
</tr>
<tr>
<td>• 1 complimentary trolley tour with director, schedule permitting (reservations must be made at least 1 week in advance)</td>
<td></td>
</tr>
</tbody>
</table>

Call 919-684-5579 to learn about additional membership societies and giving opportunities. You may leave a legacy at Duke Gardens in a variety of ways, including naming options throughout the Gardens.
CLASSROOM OPEN HOURS
TUESDAYS, FEB. 14-MAY 30, 1-3 PM, FOR PARENTS AND CHILDREN TOGETHER; AGES 3 AND UP

Welcome, unschoolers and homeschoolers alike, to an open-ended exploration in our learning laboratory. Tinker to your heart’s content, rearrange moving parts and explore our nature museum and teaching library. Or just play in the “squishy corner” especially made for small people. An on-site staff member will answer questions, help with using materials and setting up learning explorations.

DROP-IN FEE PER SESSION: $3 PER CHILD, $10 PER FAMILY. A SEASON PASS FOR ALL 16 DATES IS AVAILABLE FOR $40 PER CHILD, $120 PER FAMILY. Parking pass included with advance registration.
**GARDENING OPEN HOURS**

**THURSDAYS, APRIL 6-MAY 25, 3-5 PM, FOR PARENTS AND CHILDREN TOGETHER; AGES 3 AND UP**

Join us in our hands-on outdoor learning space! Each week a staff member will guide families through an exploration of all things connected with growing plants, including digging, using tools, planting, watering, weeding, managing pests, harvesting, tasting and composting.

<table>
<thead>
<tr>
<th>APRIL SESSIONS</th>
<th>APRIL 6</th>
<th>APRIL 13</th>
<th>APRIL 20</th>
<th>APRIL 27</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAY SESSIONS</td>
<td>MAY 4</td>
<td>MAY 11</td>
<td>MAY 18</td>
<td>MAY 25</td>
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</tbody>
</table>

**LOCATION:** MEET IN THE CHARLOTTE BRODY DISCOVERY GARDEN.

**DROP-IN FEE PER SESSION:** $3 PER CHILD, $10 PER FAMILY. A SEASON PASS FOR ALL 8 DATES IS AVAILABLE FOR $20 PER CHILD, $56 PER FAMILY.

*Parking pass included with advance registration.*

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**NATURE NAVIGATORS CERTIFICATE PROGRAM**

Explore the natural world with our certificate program for young naturalists! All classes listed below are eligible for certificate credit.

**REQUIREMENTS:**

- Certificates available for three age groups: children ages 4-5, 6-8 or 9-12 years old. All Children and Family programs with this symbol ★ qualify toward completion of your certificate. Please feel free to complete all three certificates as you meet the age ranges.

- Complete at least 6 Duke Gardens classes of your choice, 3 in the spring and 3 in the fall, for each certificate.

- Keep track with stamps in your Nature Navigators Passport.

- Complete an observational field notebook at home with age-appropriate prompts. Upon completion of each age range certificate program, you will receive a Nature Navigators certificate and a surprise reward that will help you pursue your nature studies at home.

No additional fee to participate in the certificate programs; registration required before attending each class.
CHILDREN & FAMILY PROGRAMS

CLASSES FOR CHILDREN AGES 3-5

### NATURE STORYTIME
**THURSDAYS, 10:30 AM, MARCH 2-JUNE 8; SUGGESTED FOR CHILDREN AGES 3-5**

**Free!** Enjoy the outdoors with a story read aloud in the Gardens. Nature-themed stories are followed by a related activity or garden walk.

<table>
<thead>
<tr>
<th>MARCH SESSIONS</th>
<th>MARCH 2</th>
<th>MARCH 9</th>
<th>MARCH 16</th>
<th>MARCH 23</th>
<th>MARCH 30</th>
</tr>
</thead>
<tbody>
<tr>
<td>APRIL SESSIONS</td>
<td>APRIL 6</td>
<td>APRIL 13</td>
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<td>MAY SESSIONS</td>
<td>MAY 4</td>
<td>MAY 11</td>
<td>MAY 18</td>
<td>MAY 25</td>
<td></td>
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<tr>
<td>JUNE SESSIONS</td>
<td>JUNE 1</td>
<td>JUNE 8</td>
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</table>

**LOCATION:** PLEASE MEET IN THE CHARLOTTE BRODY DISCOVERY GARDEN STORY CIRCLE.

*Free drop-in event. Parking fees apply.*

### NATURE FOR SPROUTS
**TUESDAYS, MARCH 7-APRIL 25, FROM 10:30-11:30 AM, FOR CHILDREN AGES 3-5 ***

Explore the outdoors at Duke Gardens with your child. Each week we will have stories, songs, movement, observation and hands-on, creative projects that explore the Gardens. Sign up for one more sessions.

<table>
<thead>
<tr>
<th>MARCH SESSIONS</th>
<th>MARCH 7</th>
<th>MARCH 14</th>
<th>MARCH 21</th>
<th>MARCH 28</th>
</tr>
</thead>
<tbody>
<tr>
<td>APRIL SESSIONS</td>
<td>APRIL 4</td>
<td>APRIL 11</td>
<td>APRIL 18</td>
<td>APRIL 25</td>
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</table>

FOR CHILDREN AGES 3-5. ADULT CHAPERONE REQUIRED.

TUESDAYS, 10:30-11:30 AM. LOCATION: MEET AT THE DORIS DUKE CENTER

**FEE:** GARDENS MEMBERS $7; GENERAL PUBLIC $10.

REGISTER FOR ALL 8 SESSIONS AT $6/$9 PER SESSION.

*Parking pass included with advance registration.*

Help us build the future of Duke Gardens by becoming a member today!
### PROGRAMS FOR CHILDREN AGES 5-6 AND 7-9

<table>
<thead>
<tr>
<th>Date</th>
<th>Program</th>
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</table>
| MONDAY, FEB. 27 | **THE HIDDEN WORLD**  
What’s hiding under your feet? Learn about soil and the living things that make their homes underground for the winter or all year round. |
| MONDAY, MARCH 13 | **WILD WEATHER**  
From fierce snowstorms to peaceful summer days, the weather is always changing. Learn how scientists study weather and try out some of the instruments they use. Explore how the weather affects plants and the landscape. |
| MONDAY, MAY 8 | **USEFUL PLANTS**  
From medicine to fabric, people use plants for more than just food! Learn the parts of a plant and explore how they can be useful. Seek out these special plants in the garden and plant some yourself. |
| MONDAY, MAY 22 | **FLYING THROUGH NATURE**  
People can’t fly without machines, but many things in nature can! Explore how plants and animals move through the air and learn how they’ve inspired people to defy gravity. |

**DETAILS FOR EACH PROGRAM**
- **SECTION A:** CHILDREN AGES 5-6; 10:30-11:30 AM. ADULT CHAPERONE REQUIRED.
- **SECTION B:** CHILDREN AGES 7-9; 10:30 AM-NOON
- PLEASE ASK ABOUT OUR YOUNGER SIBLING POLICY
- LOCATION: PLEASE MEET AT THE DORIS DUKE CENTER
- FEE: GARDENS MEMBERS $7 PER CLASS; GENERAL PUBLIC $10 PER CLASS
- REGISTER FOR ALL 4 CLASSES AT $6/$9 PER CLASS
- Parking pass included with advance registration.

### PROGRAMS FOR CHILDREN AGES 7-10

**TWILIGHT AT THE GARDENS:**  
**THINGS WITH WINGS**  
FRIDAY, APRIL 28, 6-8 PM, FOR AGES 7-10

Drop off your kids on Friday evening so they can learn about the butterflies and moths of spring. We will have a butterfly-themed picnic, tiptoe through the gardens to search for fluttering wings, play butterfly games and see all the stages of a butterfly’s life cycle.

**LOCATION:** PLEASE MEET AT THE DORIS DUKE CENTER
- FEE: $30 PER PERSON, INCLUDES DINNER
ARTISTS IN THE GARDENS WORKSHOPS

MONDAYS, 10 AM-NOON, FOR CHILDREN AGES 9-12

Use art to hone your observation skills and express yourself! Art can communicate everything from how you’re feeling today to the close relationship between a caterpillar and its host plant. We’ll explore habitats, uncover wildlife and identify plants while learning about art and making our own.

Each workshop will use photography and other media, including drawing, painting and collage. Classes will include time to investigate the garden, make connections, create art and share work with the group.

Join us for the full series or sign up for individual workshops. Bring your own digital camera; any kind is great, from cell phones to SLRs. All other materials provided.

<table>
<thead>
<tr>
<th>MONDAY, MARCH 20</th>
<th>BACK TO BASICS: ELEMENTS OF ART</th>
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<tbody>
<tr>
<td></td>
<td>Learn about line, shape, color and the other elements of art and observation. Notice the color of plants, the shape of garden beds, leaf textures and more as we turn those elements into art.</td>
</tr>
</tbody>
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<thead>
<tr>
<th>MONDAY, APRIL 3</th>
<th>THE LONG VIEW: LANDSCAPES</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Since ancient times, people all over the world have created art featuring the landscape. Learn how to use landscapes in your own art while immersed in the landscape of Duke Gardens.</td>
</tr>
</tbody>
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<thead>
<tr>
<th>MONDAY, APRIL 17</th>
<th>LOOKING CLOSELY: STILL LIFES &amp; PORTRAITS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Art can reveal small details that go unnoticed in everyday life. Look closely at patterns in the garden, use microscopes to investigate truly tiny things, and create your own art highlighting the details.</td>
</tr>
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<table>
<thead>
<tr>
<th>MONDAY, MAY 1</th>
<th>PUSHING THE BOUNDARIES: EXPERIMENTATION</th>
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<tbody>
<tr>
<td></td>
<td>Create outside the box! Mix media, try new techniques and collaborate with classmates to express yourself. We’ll use the garden for inspiration and as a source of unusual materials.</td>
</tr>
</tbody>
</table>

MONDAYS, 10 AM-NOON
LOCATION: PLEASE MEET AT THE DORIS DUKE CENTER
FEE: GARDENS MEMBERS $16 PER CLASS; GENERAL PUBLIC $20 PER CLASS
REGISTER FOR ALL 4 CLASSES AT $14/$18 PER CLASS
Parking pass included with advance registration.

GROWING ARTIST EXHIBIT
JOIN US ON MONDAY, MAY 1, FROM 12:30-2 PM, FOR AN EXHIBIT OF ART WORKS PRODUCED DURING ALL FOUR WORKSHOPS.
SUMMER GARDEN WORKSHOPS FOR RISING 6-8 AND 9-12 GRADE

ARTISTS IN THE GARDENS CAMP
FOR RISING 6-8 GRADE
MONDAY-FRIDAY, AUG 7-11, 9 AM-1 PM

Art can communicate everything from how you’re feeling to the close relationship between a caterpillar and its host plant. Use the garden for inspiration and as a source of unusual materials as we explore habitats, uncover wildlife and identify plants. Experiment with various mediums, learn new techniques and collaborate to express yourself.

MONDAY-FRIDAY, 9 AM-1 PM • LOCATION: ARRIVAL AND PICKUP AT DORIS DUKE CENTER
FEE: $200
NON-REFUNDABLE DEPOSIT OF $100 PER CHILD PER WEEK IS REQUIRED TO RESERVE A SPOT.
FULL PAYMENT DUE 2 WEEKS BEFORE THE START DATE OF EACH CAMP.

PLANT PRODUCTS WORKSHOP
FOR RISING 9-12 GRADE
WEDNESDAY-FRIDAY, JULY 5-7, 10 AM-3 PM

Humans depend on plants for so many things. Learn to make first-aid supplies, natural self-care products, edible delights and useful tools using parts of plants in this 3-day workshop.

WEDNESDAY-FRIDAY, 10 AM-3 PM • LOCATION: ARRIVAL AND PICKUP AT DORIS DUKE CENTER
FEE: $200
NON-REFUNDABLE DEPOSIT OF $100 PER CHILD PER WEEK IS REQUIRED TO RESERVE A SPOT.
FULL PAYMENT DUE 2 WEEKS BEFORE THE START DATE OF EACH CAMP.
NATURE ADVENTURES CAMP

<table>
<thead>
<tr>
<th>CHILD'S GRADE LEVEL</th>
<th>DATE OF CAMP</th>
<th>CAMP TOPIC AND DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRADES K-5</td>
<td>APRIL 10-14 (NO AFTERCARE)</td>
<td>SPRING BREAK CAMP</td>
</tr>
<tr>
<td>RISING K-2 GRADE</td>
<td>JUNE 12-16</td>
<td>PLANT IT, GROW IT, EAT IT: Plant, tend, harvest and taste fruits and vegetables in the Charlotte Brody Discovery Garden. Each day will include hands-on work time and play time in the garden.</td>
</tr>
<tr>
<td>RISING K-2 GRADE</td>
<td>JUNE 26-30</td>
<td>ECO ARTISTS: Everyone is an artist! Come play with color, shape, line and form. We will find beauty exploring nature and use natural materials to make our own unique artworks.</td>
</tr>
<tr>
<td>RISING K-2 GRADE</td>
<td>JULY 10-14</td>
<td>ANIMALS IN THE GARDENS: Birds, bugs, ducks and fish—oh my! Prowl the Gardens looking for a variety of animals in our flowers, fields, ponds and streams.</td>
</tr>
<tr>
<td>RISING K-2 GRADE</td>
<td>JULY 24-28</td>
<td>PLANT IT, GROW IT, EAT IT: Plant, tend, harvest and taste fruits and vegetables in the Charlotte Brody Discovery Garden. Each day will include hands-on work time and play time in the garden.</td>
</tr>
<tr>
<td>RISING K-2 GRADE</td>
<td>JULY 31-AUG 4</td>
<td>ART AND SCIENCE: How are artists and scientists similar? We will observe nature closely, record our observations in words and pictures, and experience beauty in the place where art and science meet. Have fun with hands-on experiments and learn the science of color and form to make expressive artworks.</td>
</tr>
</tbody>
</table>

CAMP HOURS: 9 AM-1 PM, MONDAY-FRIDAY; EXTENDED DAY FROM 1-4 PM.
NO EXTENDED CARE AVAILABLE FOR THE SESSIONS NOTED.
LOCATION: ARRIVAL AND PICKUP AT DORIS DUKE CENTER
FEE: $200 PER WEEK, $170 FOR ADDITIONAL SIBLINGS OR WEEKS
EXTENDED CARE AVAILABLE AT $100 PER WEEK
Scholarship application available upon request.
Non-refundable deposit of $100 per child per week is required to reserve a spot.
Full payment due 2 weeks before the start date of each camp.
<table>
<thead>
<tr>
<th>CHILD’S GRADE LEVEL</th>
<th>DATE OF CAMP</th>
<th>CAMP TOPIC AND DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>RISING 3-5 GRADE</td>
<td>JUNE 19-23</td>
<td>ART AND SCIENCE: How are artists and scientists similar? We will observe nature closely, record our observations in words and pictures, and experience beauty in the place where art and science meet. Have fun with hands-on experiments and learn the science of color and form to make expressive artworks.</td>
</tr>
<tr>
<td>RISING 3-5 GRADE</td>
<td>JULY 17-21</td>
<td>INVENTIONS FROM NATURE: From high tech fabrics to airplanes and zippers, humans have borrowed clever ideas from nature to solve problems. Find examples of inventions from nature from plants and animals in the Gardens, then tinker with contraptions to devise your own innovations.</td>
</tr>
<tr>
<td>RISING 6-8 GRADE</td>
<td>AUG 7-11, 9 AM-1 PM (NO AFTERCARE)</td>
<td>ARTISTS IN THE GARDENS: Art can communicate everything from how you’re feeling to the close relationship between a caterpillar and its host plant. Use the garden for inspiration and as a source of unusual materials as we explore habitats, uncover wildlife and identify plants. Experiment with various mediums, learn new techniques and collaborate to express yourself.</td>
</tr>
<tr>
<td>RISING 9-12 GRADE</td>
<td>JULY 5-7, 10 AM-3 PM (NO AFTERCARE)</td>
<td>PLANT PRODUCTS WORKSHOP: Humans depend on plants for so many things. Learn to make first-aid supplies, natural self-care products, edible delights and useful tools using parts of plants in this 3-day workshop.</td>
</tr>
<tr>
<td>ALL GRADES</td>
<td>AUG 4</td>
<td>End of Camp Reunion for all camp attendees from 4-5 pm</td>
</tr>
</tbody>
</table>

CAMP HOURS: 9 AM-1 PM, MONDAY-FRIDAY; EXTENDED DAY FROM 1-4 PM. NO EXTENDED CARE AVAILABLE FOR THE SESSIONS NOTED.
LOCATION: ARRIVAL AND PICKUP AT DORIS DUKE CENTER
FEE: $200 PER WEEK, $170 FOR ADDITIONAL SIBLINGS OR WEEKS
EXTENDED CARE AVAILABLE AT $100 PER WEEK
Scholarship application available upon request.
Non-refundable deposit of $100 per child per week is required to reserve a spot.
Full payment due 2 weeks before the start date of each camp.
SCHOOL PROGRAMS

All same-age groups are welcome to register for these programs. Children’s groups with a variety of ages should contact us to arrange a program specifically suited to your group.

Sarah P. Duke Gardens School Programs

Our school programs introduce students to the wonders and complexities of our natural world. Each program is age-appropriate and supports the North Carolina Standard and Extended Course of Study. The programs are led by skilled docents familiar with the Gardens and the programs. Please let us know how we can extend your classroom study through a garden visit and be an active partner with your school.

GUIDED GARDENS SCHOOL PROGRAMS:
Available Tuesday through Friday. Correlating standards are listed below. Each program is planned for 1 to 1 ½ hours, or enriched and extended if your schedule allows. Fee of $4 per student, with the exception of Garden Walk ($2 per student); $40 minimum.

SELF-GUIDED GROUPS IN THE GARDENS: Advance registration is required so we may coordinate your visit with other schedules. Self-guided groups are welcome in all areas of the Gardens except the Blomquist Garden. Tours of the Blomquist Garden of Native Plants, which contains rare and endangered plants, are only available when led by trained Gardens docents. Please register by emailing gardenseducation@duke.edu.

HOW TO REGISTER: Call 919-668-1707 or email gardenseducation@duke.edu to request a registration form. Registration is required for all groups planning to visit the Gardens. Thank you for working with us to register your group; collaboration helps us prepare and provide the best experience for your students. We will accommodate your visit on a first-come, first-served basis. Once we reach capacity, those groups without pre-registration may be asked to reschedule their visit.

CHAPERONES: Adult chaperones are required for all youth groups. We recommend a ratio of 3 chaperones per 15 students.

WEATHER: We do take groups out in the rain, unless there is threatening weather that includes lightning; in that case we will reschedule.

CANCELLATION POLICY: You may cancel your enrollment and receive a refund of your fee up to a week before the date of your program. Any program canceled by Duke Gardens will result in a complete refund.

Call 919-668-1707 or email gardenseducation@duke.edu.
SCHOOL PROGRAMS

ALL GRADE LEVELS

• DISCOVERY GARDEN: Introduce students to agriculture and sustainable gardening. What’s the difference between a fruit and a vegetable? What parts of plants do we eat? See bees, chickens, an orchard, vegetables and fruits, a historic tobacco barn and more.

• MATH IN THE GARDENS: Measure, multiply or map your way through the garden. Learn about the different kinds of math garden staff use every day and solve your own garden math problem. Program content will be adjusted to match appropriate grade level standards.

• HAÏKU TRAIL: Recommended for 3rd-8th grades (meets standards 3.C.1, 6.85). Develop literacy skills and creative expression through sensory observation. Learn about the haiku poet Basho as you explore the Gardens and collect sensory descriptions to assemble your own haiku.

• A GARDEN WALK: For larger groups with limited time. A guided walk, planned for 1 hour or less, to introduce students to the four major areas of the garden. Fee of $1 per student.

FOR KIDS

PRE-K – K

• FARM AND FOLK TALES: Learn about fruits, vegetables and animals in the garden through stories and garden activities.

• SENSE-ATIONAL STROLL: Engage all of your senses as you touch, smell, hear, taste and see your way through the garden on this guided walk.

• BIRDS AND BUTTERFLIES: Look up to discover the amazing world of winged wildlife in the garden. Through song and movement, learn how birds and butterflies are born.

• DIRT AND WORMS: Take a close look at life underground and learn how wiggling worms help the garden grow. What is a worm’s life cycle? How do they move? What do they eat? Learn this and more.

• KNOCK, KNOCK. WHO’S THERE? Tiptoe through the garden to find signs of animals at home. Learn who lives in the ground and who lives in a tree.

FIRST GRADE

• HABITAT HUNTERS: (meets standard 1.L.1 / 1.L.2) What do plants and animals need to survive? Go on a scavenger hunt to find animal homes in the Gardens. Find resources and learn how living things get what they need.

SECOND GRADE

• A BUG’S LIFE: (meets standard 2.L.1.2) What is an insect? Where do they live? Students will learn about and compare the life cycles of garden insects by studying them in their natural habitat.

• DOUBLE EXPOSURE: Connecting Science and Art at Duke Gardens and The Nasher Museum: (meets standard 2.E.1, 2.L.1.2) An innovative program for 2nd grade school groups with a full day experience that connects science and art. Students visit both Duke Gardens and Nasher Museum of Art. To register, go to nasher.duke.edu/k-12/#k-12-tours or contact the Nasher’s education office at 919-684-1169.

Free for DPS students. Otherwise standard fees apply.

Thank you for working with us to register your group; collaboration helps us prepare and provide the best experience for your students.
THIRD GRADE

- **SOIL CITY:** *(meets standard 3.L.2.4)* Explore the world of ants, earthworms, pillbugs and other soil dwellers. Students examine basic soil properties throughout the garden and discover how soil supports the growth and survival of living things.

- **PLANT POWER:** *(meets standard EX.3.L.2)* Take a trip through the life cycle of a plant. Learn the different plant structures and how they work to help the plant grow and thrive, and see examples of adaptations to extreme environments in our “plant museum.”

FOURTH GRADE

- **AMAZING ADAPTATIONS:** *(meets standard 4.L.1.2)* What do desert succulents, tropical water lilies, and our local squirrels have in common? Take a walk and see how plants and animals survive using amazing adaptations to their environments.

- **NATIVE TALES:** *(meets standard 4.H.1.1)* Plants have stories to tell. Discover plants used for food and medicine by Native Americans and in modern times in the Blomquist Garden of Native Plants.

FIFTH GRADE

- **BEYOND THE POND:** *(meets standard 5.L.2.1)* Students will examine a pond ecosystem and evaluate the water quality by surveying the smallest creatures of the pond. Limited to 40 students.

- **GARDEN FOOD WEB:** *(meets standard 5.L.2)* Producers, consumers and decomposers in the Gardens are connected in a web of life. Students will create a food web from organisms they have seen in the Gardens, and they will learn the importance of all the community’s connections.

- **TREE DETECTIVES:** *(meets 5th grade science standards)* Learn the fundamentals of plant identification by examining detailed characteristics such as leaf arrangement and structure. Meet a tree and observe details and record your data with your scientific team.

MIDDLE SCHOOL

- **THE FOREST AND THE FARM:** *(meets standards 6.H.2.3, AIS.G.2.3)* Explore the Blomquist Garden of Native Plants to learn how hunter/gatherer cultures found their food, and the Charlotte Brody Discovery Garden to learn about civilization’s transition to agriculture.

- **HAIKU TRAIL INTO THE GARDENS:** *(meets standard 6.85)* Collect words on a sensory walk through the Culberson Asiatic Arboretum, and write, revise and edit your experience into a crafted haiku poem.

- **BEYOND THE POND:** *(meets standards 6.L.2.1, 8.E.1.3)* Students will examine a pond ecosystem and evaluate the water quality by examining benthic macroinvertebrates. Limited to 40 students.

HIGH SCHOOL

- See programs for all ages.
Thank you for working with us to register your group; collaboration helps us prepare and provide the best experience for your students.

TEACHER TRAININGS

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

DATES TBA, 9 AM-4 PM
Registration available through the Nasher Museum of Art, 919-684-8816.

• LEARNING WITH NATURE: Teacher Training for Early Childhood Providers

Content will include indoor and outdoor hands-on activities that encourage interacting with nature, making environmental connections, facilitating conversations about nature with young children, and ideas for ways to bring nature into the classroom.

Available for groups upon request. Contact us for more details or to schedule this professional development opportunity. 2-4 hours. Participant limit: 25. Fee will be determined on a sliding scale.

Please visit the “learn” page at gardens.duke.edu or call 919-668-1707.
FEBRUARY 10-12
NATURE PHOTOGRAPHY EXHIBIT

Nature photography requires technical skill, artistry and a never-ending sense of wonder. Enjoy photographs of nature by members of the Durham Photography Club at Duke Gardens at this exhibit. The displays will remind you of the amazing spectacle of nature in any season and brighten a winter’s day.

FREE DROP-IN EXHIBIT FOR ALL AGES. ADULT CHAPERONE REQUIRED.
FRIDAY, FEB. 10, 4:30-8 PM, PLEASE JOIN US FOR AN ARTISTS’ RECEPTION
SATURDAY, FEB. 11, 9 AM-4:30 PM • SUNDAY, FEB. 12, NOON-4:30 PM.
LOCATION: DORIS DUKE CENTER
Parking fees apply on weekdays from 9 am to 5 pm and Saturday/Sunday after 1 pm.

SPECIAL RECEPTION FOR DUKE GARDENS MEMBERS, THURSDAY, FEB. 9, 5:30-7 PM

MARCH 18-22
ART AND NATURE: Artwork Inspired by the Doris Duke Center Gardens

Experience the beauty of nature as seen through an artist’s eye. The richness and history of Duke Gardens will serve as inspiration for local artists in this exhibit. Up to 40 works, both two- and three-dimensional, will be on display from more than 20 artists. The artists will focus on the variety of the Doris Duke Center Gardens—from the Page-Rollins White Garden to the Welch Woodland Garden Overlook & Stream and the Charlotte Brody Discovery Garden—as their inspiration to create a work of art to display.

FREE DROP-IN EXHIBIT FOR ALL AGES. ADULT CHAPERONE REQUIRED.
SATURDAY, MARCH 18, 4:30-6 PM, PLEASE JOIN US FOR AN ARTISTS’ RECEPTION
MARCH 18, 20, 21, 22, EXHIBIT OPEN 9 AM-4 PM. • MARCH 19, EXHIBIT OPEN 1-4 PM.
LOCATION: DORIS DUKE CENTER
Parking fees apply on weekdays from 9 am to 5 pm and Saturday/Sunday after 1 pm.

SPECIAL RECEPTION FOR TERRACE SOCIETY MEMBERS AND ABOVE, FRIDAY, MARCH 17, 5:30-7 PM.
FREE DROP-IN EXPLORATIONS

Look for a Garden Ambassador to launch you into a world of curiosity and wonder and find out what you can discover in the Gardens today.

Free drop-in event. Parking fees apply.

APRIL 1
SARAH P. DUKE GARDENS SPRING PLANT SALE

Spring brings out the gardener in all of us! The Spring Plant Sale provides a special opportunity to acquire unique plants grown here at Duke Gardens, and quality grown plants from local nurseries that have proven their worth in North Carolina gardens. Duke Gardens members will have first access to purchase plants on Friday, March 31, from 4-6 p.m., with member discount throughout the sale hours. Memberships are available on site during the preview sale and on the day of the sale.

PUBLIC SALE OPENING: SATURDAY, APRIL 1, 8 AM-NOON.
FURTHER INFORMATION AT GARDENS.DUKE.EDU

JULY 8 & 9
BONSAI EXPO

Presented by the Triangle Bonsai Society and Duke Gardens

Join us this summer to enjoy the first Bonsai Expo at Duke Gardens. The Triangle Bonsai Society will display an amazing array of these carefully pruned plants. This 2-day exhibit will include more than 40 bonsai created in multiple styles from a wide range of plant species, including maple, azalea, pine, elm, juniper, bald cypress, crabapple, ficus and more. You will also have the opportunity to learn the basic steps of creating a bonsai at daily demonstrations.

FREE DROP-IN EXHIBIT FOR ALL AGES. ADULT CHAPERONE REQUIRED.
LOCATION: DORIS DUKE CENTER • SATURDAY, JULY 8, 10 AM-5 PM • SUNDAY, JULY 9, NOON-4 PM
Parking fees apply on weekdays from 9 am to 5 pm and Saturday/Sunday after 1 pm.

NATURE STORYTIME
THURSDAYS, 10:30 AM, MARCH 2-JUNE 8; SUGGESTED FOR CHILDREN AGES 3-5

Enjoy the outdoors with a story read aloud in the Gardens. Nature-themed stories are followed by a related activity or garden walk.

MARCH SESSIONS  |  MARCH 2  |  MARCH 9  |  MARCH 16  |  MARCH 23  |  MARCH 30
APRIL SESSIONS  |  APRIL 6  |  APRIL 13 |  APRIL 20  |  APRIL 27  |
MAY SESSIONS    |  MAY 4    |  MAY 11   |  MAY 18    |  MAY 25    |
JUNE SESSIONS   |  JUNE 1   |  JUNE 8   |

LOCATION: PLEASE MEET IN THE CHARLOTTE BRODY DISCOVERY GARDEN STORY CIRCLE.
Free drop-in event. Parking fees apply.
ADULT EDUCATION PROGRAMS

DESIGN STRATEGIES FOR AN ENGLISH GARDEN
Annabel Renwick, horticulturist, and Jan Little, director of education, Duke Gardens

This workshop will begin with an outline of strategies and design elements that may be adapted from authentic English gardens into North Carolina gardens. Annabel, a student of The English Garden School at the Chelsea Physic Garden in London, brings her extensive knowledge of English gardens and the North Carolina climate to this class. You will have the opportunity to sketch out the basics of a plan for your landscape. The devices of definition, open ground and mixed borders will be refined with discussions of plant palette, the influence of light on color, and right plant/right place approaches. Participants should plan to bring a drawing of the site they want to develop. No site should be larger than 75 x 75 feet.

4 WEDNESDAYS, JAN. 25-FEB. 15, 6:30-9 PM
LOCATION: DORIS DUKE CENTER
PARTICIPANT LIMIT: 15
FEE: GARDENS MEMBERS $95; GENERAL PUBLIC $115
Qualifies for Home Horticulture Certificate elective credit (10 hours). See page 38

WALK ON THE WILD SIDE
Stefan Bloodworth, curator, or Annabel Renwick, horticulturist, Blomquist Garden of Native Plants, Duke Gardens

Explore wild North Carolina in these seasonal walks through the Blomquist Garden of Native Plants on the first Thursday of every month.

1ST THURSDAYS, FEB. 2, MARCH 2, APRIL 6, MAY 4, JUNE 1, JULY 6, AUG. 3, 11 AM-NOON
LOCATION: MEET AT THE BLOMQUIST GARDEN ENTRANCE.
PARTICIPANT LIMIT: 15
FEE: GARDENS MEMBERS $7; GENERAL PUBLIC $10
PRE-REGISTRATION REQUIRED. PARKING FEES APPLY.
I NEED A PLAN:
The fundamental steps to create a garden

Each different section of this program will help you plan your garden. Register for one or all sections.

CREATE A BIRD-FRIENDLY GARDEN
2 Tuesdays, Feb. 7 & 14, 6:30-9 pm
Lauri Lawson, Niche Gardens

Birds can bring color, life and song to your garden. Lauri will review plants that are favored by both local and migratory songbirds, as well as their other shelter needs. Then you will have the chance to create a plant list suitable for your garden conditions.

DESIGN PRINCIPLES IN THE MIXED BORDER
2 Wednesdays, March 8 & 15, 6:30-9 pm
Preston Montague, landscape designer, LIFT[ED] Landscapes

Successful planting plans can be created using classical principles of design, such as composition and color theory, as well as design strategies for developing seasonal performance. Join artist and landscape designer Preston Montague for a two-part workshop on success in planting design based on his experience as a painter working in landscape architecture. Preston will present his process for developing effective planting, as well as help participants with design challenges they may be facing at home.

PATTERNS IN THE GARDEN
2 Wednesdays, April 5 & 12, 6:30-9 pm
Jan Little, director of education and public programs, Duke Gardens

Human beings are captivated by pattern; perhaps it relates to the pattern of our own symmetrical form. We respond to both subtle and overt geometry in our gardens. Discover which patterns and proportion capture your eye and then how to use them in your garden.

CREATE A POLLINATOR GARDEN
2 Wednesdays, April 19 & 26, 6:30-9 pm
Lauri Lawson, Niche Gardens

Build a pollinator haven in your garden! Discover the pollinators native to our region and then create a plant list that includes everything needed by them, from food to shelter. Finally, learn to filter your list to match your existing conditions, whether your garden is sunny, shady, dry or wet.

LOCATION: DORIS DUKE CENTER
PARTICIPANT LIMIT: 15
FEE PER SECTION: GARDENS MEMBERS $48; GENERAL PUBLIC $60
FEE TO REGISTER FOR MULTIPLE SESSIONS: GARDENS MEMBERS $43; GENERAL PUBLIC $54
Qualifies for Home Horticulture Certificate elective course (5 hours each). See page 38
CARING FOR YOUR LANDSCAPE

Lauri Lawson, horticulturist and garden designer

Suddenly the landscape is planted and you are faced with garden maintenance! In this class we will take you through the steps of establishing a new landscape, watering, plant staking and plants’ nutritional needs. Then, we’ll consider long-term maintenance tasks, including pruning, weed control, fertilizing and pest control.

3 SATURDAYS, FEB. 18-MARCH 4, 9:30-11:30 AM
LOCATION: GREENHOUSE CLASSROOM
PARTICIPANT LIMIT: 15
FEE: GARDENS MEMBERS $70; GENERAL PUBLIC $90
Qualifies for Home Horticulture Certificate required course. See page 38

BASIC BOTANY AND PLANT GROWTH

Alec Motten, associate professor, Duke University Department of Biology

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. Previous participants have commented that Alec’s enthusiasm and skillful instruction make the topic come alive.

4 TUESDAYS, FEB. 21-MARCH 14, 6-9 PM
PARTICIPANT LIMIT: 15
FEE: GARDENS MEMBERS $120; GENERAL PUBLIC $150
Qualifies as a Home Horticulture Certificate required course. See page 38

LANDSCAPE PLANTS FOR NORTH CAROLINA GARDENS

Jan Little, director of education and public programs, Duke Gardens

Expand your palette of plants with information from this class. Each season this class covers another group of approximately 75 plants that thrive in North Carolina gardens, plus a few to avoid. You will learn identification skills and design use, and understand the culture of each plant. Class time is primarily outdoors and each student receives a portfolio of photos showing the plants studied that season.

WINTER SECTION: 3 WEDNESDAYS, FEB. 22-MARCH 8, 3:30-6 PM
SPRING SECTION: 4 WEDNESDAYS, APRIL 19-MAY 10, 4-6 PM
SUMMER SECTION: 4 WEDNESDAYS, JUNE 7-28, 4-6 PM
LOCATION: DORIS DUKE CENTER
PARTICIPANT LIMIT: 15
FEE PER SECTION: GARDENS MEMBERS $90; GENERAL PUBLIC $110
Qualifies for Home Horticulture Certificate required course. See page 38
THE WOW FACTOR: Design Elements in the Winter Garden

*Bobby Mottern, landscape architect and Duke Gardens' horticulture director*

**New!** The best gardens feel somehow effortless and exciting. They have a WOW impact that you want to understand and use. Bobby will introduce you to design elements that will help you enjoy your winter garden. Learn about winter buds, bark and beauty in this class to add a year-round appeal and incorporate the elegant beauty of winter in your garden.

**SECTION A:** WINTER PLANT BUDS, THURSDAY, FEB. 23, 10:30 AM-NOON
**SECTION B:** WINTER PLANT BARK, THURSDAY, MARCH 2, 10:30 AM-NOON
**SECTION C:** WINTER BEAUTY, THURSDAY, MARCH 9, 10:30 AM-NOON

LOCATION: MEET AT THE DORIS DUKE CENTER

PARTICIPANT LIMIT: 15

FEE PER SECTION: GARDENS MEMBERS $15; GENERAL PUBLIC $19

FEE TO REGISTER FOR MULTIPLE SESSIONS: $13/$17 PER SESSION

Qualifies for Home Horticulture Certificate elective course (1.5 hours each). See page 38

A ROSE BY ANY OTHER NAME

*Paul Jones, curator, Culberson Asiatic Arboretum, Duke Gardens*

**New!** What is in a name? When it comes to plants, the name may give you quite a bit of information about its growth patterns, region, history or culture. Paul will give you an overview of scientific names, helping you understand why the name is actually a very brief plant description. Participants are required to get a copy of “Plant Identification Terminology,” by James G. Harris and Melinda Woolf Harris, available new or used.

TUESDAY, MARCH 2, 3-5:30 PM

LOCATION: DORIS DUKE CENTER

FEE: GARDENS MEMBERS $24; GENERAL PUBLIC $30

PARTICIPANT LIMIT: 15

Qualifies for Home Horticulture Certificate elective course (2.5 hours). See page 38
PLANTS OF DISTINCTION: Spring & Summer

Beautiful plants that provide color, delight, fragrance and seasonality—these are plants of distinction. Sign up separately for each session to learn about a new group of beautiful and useful plants, or take all five sections.

ARCHITECTURAL TREES: Thursday, March 9, 2-3:30 pm
Jason Holmes, curator, Doris Duke Center Gardens, Duke Gardens
The beautiful transition of trees from winter to spring gives us the opportunity to enjoy their architecture, spring buds and emerging flowers and leaves. Join Jason for a stroll to look at trees in this season.

THE SPRING AWAKENING: Thursday, March 16, 2-3:30 pm
Stefan Bloodworth, curator, Blomquist Garden of Native Plants, Duke Gardens
Learn about the workings of spring as we discuss the intricate biochemical cues that lead to emerging buds, flowers and new growth.

THE TERRACES PREVIEW: Thursday, April 13, 2-3:30 pm
Mike Owens, curator, Historic Gardens, Duke Gardens
When people think of Duke Gardens, it is often the Terraces that come to mind. In this walk through the Gardens, Mike Owens will discuss planning and maintaining the season-long explosion of color on the Terraces. Hear about Mike’s plans and methods so you can adapt them to your home garden.

LOCATION: DORIS DUKE CENTER
FEE PER SESSION: GARDENS MEMBERS $7; GENERAL PUBLIC $10
SIGN UP FOR ALL AT $5/$8; PER SESSION
PARTICIPANT LIMIT PER SESSION: 15
Qualifies for Home Horticulture Certificate elective course (1.5 hours each). See page 38
THE LIFE BENEATH OUR FEET
Annabel Renwick, horticulturist, Blomquist Garden of Native Plants, Duke Gardens

New! Soil is not DIRT. But it does hold the digestive system of the planet, transforming rock and organic material into rich, nutritious, wonderful earth. Take a tour through the subterranean world to learn of fascinating new research about the interconnections between plants and their microbiomes, and how to maintain a healthy mix of all the micro-creatures. Annabel will focus on garden applications and help you understand more about what is going on beneath your feet.

2 THURSDAYS, MARCH 16 & 23, 6:30-8 PM
LOCATION: DORIS DUKE CENTER • FEE: GARDENS MEMBERS $54; GENERAL PUBLIC $70
Qualifies for Home Horticulture Certificate elective course (5 hours). See page 38

AN HERBAL PRIMER
Lauri Lawson, horticulturist and garden designer

New! What’s the answer for low-maintenance, tough plants, resistant to deer and most pests, and user friendly? An herb garden! Join Lauri in this quick overview of herbs and their culture, maintenance and uses. Lauri will also discuss design and harvest strategies to give you all the tools necessary to begin your own herb garden.

2 WEDNESDAYS, MARCH 22 & 29, 6:30-9 PM • LOCATION: DORIS DUKE CENTER
PARTICIPANT LIMIT: 15 • FEE: GARDENS MEMBERS $48; GENERAL PUBLIC $60
Qualifies for Home Horticulture Certificate elective course (5 hours). See page 38
THE ANNUAL TAIMI ANDERSON LECTURE
PLANTING IN A POST-WILD WORLD

Claudia West, MLA, author and ecological sales manager, Northcreek Nurseries, PA

Our good health is only possible with a healthy earth, and a healthy earth begins with plants. Author and landscape architect Claudia West joins us to propose that the great landscapes of the future will require a new form of planting, one that marries horticulture with ecology. Building from her book, "Planting in a Post-Wild World," written with Thomas Rainer, Claudia outlines a new approach that uses design strategies based upon plant communities. She recommends a balanced approach to include ornamental, functional and ecological values in an increasingly urban world. Along the way, Claudia does not overlook the simple joy and beauty that plants bring into our lives, or the pragmatism of a gardener.

“Planting in a Post-Wild World” has created quite a splash. The Chicago Tribune calls it "a groundbreaking guide that lays out an alternative to traditional horticulture: designed plantings that function like naturally occurring plant communities. As practical as it is poetic, theirs is an optimistic call to action."

“Using detailed examples and simple graphics, Rainer and West make a convincing case for rethinking our relationship to plant design.” —from Architectural Digest Online

JOIN US FOR THIS LECTURE AND BOOK SIGNING RECEPTION.
THURSDAY, MARCH 30, 7-9 PM
LOCATION: DORIS DUKE CENTER
FEE: FREE TO GARDENS MEMBERS AND DUKE UNIVERSITY STUDENTS; GENERAL PUBLIC $10
Book available for purchase that evening, and Claudia will sign books after the lecture.

SMALL GROUP WORKSHOP:
Planting in a Post-Wild World

Claudia West, MLA, author and ecological sales manager, Northcreek Nurseries, PA

In this workshop, you will work with Claudia to more fully understand how to apply her concept of ecological landscape design. Rather than considering a garden one plant at a time, Claudia’s approach will encourage you to consider the community of plants that suit the site, building a dense planting that mimics a natural ecosystem. While this approach may not be traditional, Claudia will also introduce you to strategies that blend traditional with ecological plantings to create a landscape that is attractive and appealing to all.

FRIDAY, MARCH 31, 9:30 AM-3 PM
LOCATION: DORIS DUKE CENTER
FEE: GARDENS MEMBERS $80; GENERAL PUBLIC $99. INCLUDES ALL HANDOUTS AND LUNCH.
PARTICIPANT LIMIT: 25
Qualifies for Home Horticulture Certificate elective course (5 hours). See page 38
SARAH P. DUKE GARDENS
SPRING PLANT SALE

Spring brings out the gardener in all of us! The Spring Plant Sale provides a special opportunity to acquire unique plants grown here at Duke Gardens, and quality grown plants from local nurseries that have proven their worth in North Carolina gardens. Duke Gardens members will have first access to purchase plants on Friday, March 31, from 4-6 p.m., with member discount throughout the sale hours. Memberships are available on site during the preview sale and on the day of the sale.

PUBLIC SALE OPENING: SATURDAY, APRIL 1, 8 AM-NOON. FURTHER INFORMATION AT GARDENS.DUKE.EDU

GROWING FOR SEED

Sara Smith, avid gardener

Learn how to imitate Mother Nature by allowing some plants to produce seed and saving it for next year’s crop. Sara will discuss the do’s and don’ts of seed saving, including the differences between heirloom and hybrid plants. You will also practice cleaning seed from fruits in class.

TUESDAY, APRIL 4, 6:30-8:30 PM • LOCATION: DORIS DUKE CENTER
PARTICIPANT LIMIT: 15 • FEE: GARDENS MEMBERS $12; GENERAL PUBLIC $15
Qualifies for Home Horticulture Certificate elective course (2 hours). See page 38
PHOTOGRAPHY STROLL: An Insider’s Guide To The Gardens

Duke Gardens volunteer photographers

Stroll Duke Gardens with two experienced photographers and learn more about “how to look” for those unique views and unknown spots. The Gardens photographers have spent a great deal of time in the Gardens taking photographs, many of which you have seen in this publication. Join them to hear how they find fresh perspectives on each visit and how looking through a lens has enriched their understanding of nature.

THURSDAYS, APRIL 6 & 20, MAY 4 & 18, 5:30-7 PM
LOCATION: MEET AT THE DORIS DUKE CENTER ENTRY • PARTICIPATION LIMIT: 12
FEE PER SESSION: GARDENS MEMBERS $14; GENERAL PUBLIC $18.
REGISTER FOR ALL SESSIONS AT $12/16 PER SESSION

SHINRIN YOKU: A Meditative Walk

Dana Galinsky-Malaguti, certified forest therapy guide

Take a walk in the forest and join a growing tradition that began in Japan called Shinrin Yoku. The idea is simple: if you visit natural areas, sitting or walking in a mindful way, you will feel rejuvenated and calm. Dana will facilitate these gentle, guided walks that support well-being through sensory immersion in forests and other naturally healing environments. In the past several decades there have been many scientific studies that document the healing effects of wild and natural areas. Shinrin Yoku builds upon traditions from many cultures that recognize the benefits of a mindful immersion in natural environments. Each walk will end with a refreshment and discussion. Dana brings a wealth of experience in medicine, yoga, coaching and personal training to her role as a certified forest therapy guide.

1½-HOUR WALKS: THURSDAYS, APRIL 6 OR MAY 18, 6:30-8 PM
3-HOUR WALKS: THURSDAYS, APRIL 27 OR JUNE 8, 5:30-8:30 PM
LOCATION: DORIS DUKE CENTER
FEE PER 1½-HOUR SESSION: GARDENS MEMBERS $45; GENERAL PUBLIC $55
FEE PER 3-HOUR SESSION: GARDENS MEMBERS $55; GENERAL PUBLIC $68
PARTICIPANT LIMIT: 12

SPRING INTO BIRDING

Matthew Moskwik, Science Conservation Planner

Spring brings April showers, May flowers and birds! Matt supplies his birding expertise so you can discover more about birding culture, using identification guides, taxonomic basics, and developing your skill at identifying common and migratory birds by song and sight. An experienced birder, Matthew was the coordinator of the search for the ivory billed woodpecker in South Carolina. Class will be indoors to introduce ideas and then outdoors to practice those skills. Binoculars available at the Gardens.

3 SATURDAYS, APRIL 22 & 29, MAY 6, 8-11 AM • LOCATION: DORIS DUKE CENTER
PARTICIPATION LIMIT: 15 • FEE: GARDENS MEMBERS $99; GENERAL PUBLIC $125
COOKING FROM THE GARDEN

*Katie Coleman, chef, Durham Spirits Company*

Time to feast upon spring and summer vegetables! Join us for one class, or the entire series. Each class includes in-class tastings.

**COOKING WITH FLOWERS** • **Monday, April 10**

Roselle, lavender, borage and more are edible flowers that add tasty, refreshing notes to your cooking. We will make a tea, a spice rub to take home, and a flower-filled salad, Rose-Scented Geranium Filo Cups and Blackberry Borage Fool to taste in class.

**SPRING PESTOS FROM THE GARDEN** • **Monday, April 24**

Prepare for a treat and learn about a variety of garden-fresh pestos to celebrate the taste of spring. Katie will demonstrate the basics of a pesto and then we all will help make a variety to taste and to take home. Mint pesto, spring greens pesto, herb pesto and more.

**COLD SOUP AND SALADS FROM THE SUMMER GARDEN** • **Monday, June 5**

Expand your repertoire of summer season salads, along with refreshing cold soups. You will work in small groups to make recipes and then enjoy tasting all the salads and soups.

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**A POTTED HERB GARDEN**

*Lauri Lawson, horticulturist and garden designer*

Whether for your patio, porch or doorstep, having a pot of culinary herbs at hand will bring flavor to your cooking throughout the season. Lauri will review a number of culinary herbs and then you will select six to plant in a 10” plastic nursery container. (It can be slipped into a decorative container at home.) The class will end with completed container gardens and a few recipes to take home.

*SATURDAY, APRIL 22, 9:30 AM-12:30 PM • LOCATION: GREENHOUSE CLASSROOM
PARTICIPATION LIMIT: 12 • FEE: GARDENS MEMBERS $55; GENERAL PUBLIC $65*
GARDENING & HORTICULTURE

LANDSCAPE RESTORATION

Edward Kabay, science and environment science teacher, East Chapel Hill High School

New! Visit a pollinator habitat restoration that serves as a living laboratory! This 10-acre landscape is being developed by students and faculty at East Chapel Hill High School as part of their environment curriculum. Not only will it bring real-world experience to science classes, it is also planned to serve as a learning source of beauty for the ECHHS community. Join us on a field trip to meet instructor Ed Kabay and learn more about plant communities and habitat in action.

THURSDAY, APRIL 27, 3-5 PM
LOCATION: MEET AT EAST CHAPEL HILL HIGH SCHOOL, 500 WEAVER DAIRY RD, CHAPEL HILL, NC.
DIRECTIONS AND PARKING INFORMATION WILL BE SENT TO PARTICIPANTS.
PARTICIPANT LIMIT: 15 • FEE: GARDENS MEMBERS $10; GENERAL PUBLIC $12

JULY 8 & 9
BONSAI EXPO

Presented by the Triangle Bonsai Society and Duke Gardens

New! Free! Join us this summer to enjoy the first Bonsai Expo at Duke Gardens. The Triangle Bonsai Society will display an amazing array of these carefully pruned plants. This 2-day exhibit will include more than 40 bonsai created in multiple styles from a wide range of plant species, including maple, azalea, pine, elm, juniper, bald cypress, crabapple, ficus and more. You will also have the opportunity to learn the basic steps of creating a bonsai at daily demonstrations.

FREE DROP-IN EXHIBIT FOR ALL AGES. ADULT CHAPERONE REQUIRED.
LOCATION: DORIS DUKE CENTER
SATURDAY, JULY 8, 10 AM-5 PM • SUNDAY, JULY 9, NOON-4 PM
Parking fees apply on weekdays from 9 am to 5 pm and Saturday/Sunday after 1 pm.
An informal group independent of Sarah P. Duke Gardens, the forum meets once a month to enrich its members’ gardening knowledge and skill. Walk-ins welcome with no pre-registration at $10 per lecture. Memberships may be purchased at any lecture. Sponsored in partnership with N.C. Cooperative Extension: Durham County Center.

INTRODUCTION TO HYDROPONIC GARDENING • MARCH 21
Ashley Mattison, owner, Fifth Season Gardening Co.
Growing plants without soil, called hydroponics, has many advantages: shorter harvest times, lower water use, no weeds to worry about and few pests. Instructor Ashley Mattison, will review the basics and show you how easy and enjoyable it can be to grow plants indoors all year long.

PLANT PROPAGATION • APRIL 18
Jason Holmes, curator, Doris Duke Center Gardens, Duke Gardens
Learn tips and techniques to expand your plant collection without buying more plants. Jason will review propagating through cuttings, division and layering, and then take us into the golly-gee-whiz science of tissue culture.

THE FOOD-SCAPE REVOLUTION • MAY 16
Brie Arthur, horticulturist and author
This month Brie Arthur will encourage us to “think outside the box” and learn how pairing edibles in a traditional ornamental landscape increases biodiversity and adds purpose to everyday spaces. Brie is the author of “The Foodscape Revolution.”

SUSTAINABLE TURF STRATEGIES • JUNE 20
Grady Miller, professor, Crop and Soil Sciences, North Carolina State University
Turf functions in many ways in our home landscapes, preserving open space, providing pathways and creating a frame that many people enjoy. Sustainable turf strategies begin with selecting the best grass for your location and then managing the turf to reduce water and chemical use while maintaining the health of the yard and reducing organic yard waste. Grady will give us an update on a variety of sustainable practices.

2017 GARDENERS’ FAIR: ASK THE EXPERTS • July 25
Featuring area experts and garden suppliers. Free admission.
EXTENSION GARDENER SERIES

with Durham County Master Gardeners

Sponsored in partnership with the N.C. Cooperative Extension Service: Durham County Center

LOCATION: DORIS DUKE CENTER
Free events; registration is required at 919-668-1707. No parking fees after 5 pm.

TOMATO, TOMA(AAH)TO
THURSDAY, APRIL 6, 6:30-8 PM
Charles Murphy, Durham County Extension master gardener

Free! Whatever your pronunciation, tomatoes are the number one planting choice for home vegetable gardeners. Learn more about the care and feeding of these popular fruits. Charles will review some of the many choices available, including heirloom vs. hybrids, and some good references for gardening in general and tomatoes in particular. Pre-registration required.

BUY HEALTHY PLANTS AND PLANT THEM WELL
THURSDAY, APRIL 27, 6:30-8 PM
Chris Apple, Durham County Extension master gardener

Free! Healthy plants stand a better chance of thriving in your garden. This presentation will review what you should look for when purchasing and planting plants. Chris will discuss plant sources, how to evaluate a plant, how to correctly plant a tree, shrub, groundcover or perennial and then what is necessary to establish a plant.

GARDENING IN DURHAM FOR BEGINNERS AND TRANSPLANTS: EVERYTHING YOU NEED TO SUCCEED
THURSDAY, MAY 11, 6:30-8 PM
Gene Carlone, Durham County Extension master gardener

Free! Understanding Durham’s soil and climate will help you succeed in your garden, whether you are a Durham native or a transplant, an experienced gardener or just beginning. Join Gene as he explains the strategies and techniques that are time-tested in Durham and help you take advantage of our year-round growing season. Pre-registration required.

PLANT INFORMATION BOOTH

Free! Having trouble with a plant, pest or pathogen? The Master Gardener Volunteers are in the Gardens to answer all your questions about plants, gardening, insect pests or disease. Please see a complete schedule and more information at durham.ces.ncsu.edu.

 Please see a complete schedule and more information at durham.ces.ncsu.edu.
JAPANESE TEA GATHERINGS

TRADITIONAL JAPANESE TEA GATHERINGS
Chizuko Sueyoshi with members of the Japanese Tea Practitioners of Durham

Join us for a moment of respite in the Duke Gardens teahouse, where 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 on a 10-minute walk to the teahouse.

Daytime teas are open for children age 6 and older, with an accompanying adult, at the family rate.

Participant limit: 10

SATURDAY, MARCH 11, 10:45 AM AND 1 PM: SEATINGS FOR THE FIRST VOICE OF SPRING TEA
SATURDAY, APRIL 22, 10:45 AM AND 1 PM: SEATINGS FOR A CELEBRATION OF EARTH DAY TEA
SATURDAY, MAY 6, 10:45 AM AND 1 PM: SEATINGS FOR CHILDREN’S DAY TEA

LOCATION: MEET AT THE DORIS DUKE CENTER
FEE: GARDENS MEMBERS $35; GENERAL PUBLIC $45. FAMILY RATE: $45 PER ADULT/CHILD;
ADDITIONAL CHILDREN $15 EACH.
Pre-registration required (parking pass included)

Interested in learning from the experts at Duke Gardens? By becoming a member today, you can save 20% on most education programs.
HOME HORTICULTURE
Certificate Program

Each garden is a unique combination of site, soil, climate and the gardener who creates it. The Home Horticulture Certificate gives you the knowledge and skill to select plants successfully, and to develop, grow and maintain your home landscape.

The curriculum assists you in mastering the gardening techniques best suited for North Carolina gardens through lectures, demonstrations, field experiences and projects. The classes focused on native plants and systems will assist you in sustainable gardening. Enjoy learning from local experts and sharing your experiences with other gardeners.

You do not have to be enrolled in a certificate program to take a class. Everyone is welcome in certificate courses.

Participants already pursuing the certificate should continue to complete the requirements in place when they began. For people just beginning the certificate program, please see the requirements listed below.

FULL LISTING OF REQUIRED COURSES:
For current programs scheduled, please see the class listings. Some required courses are offered seasonally.

• Landscape Plants for North Carolina Gardens: four seasonal courses—spring, summer, fall and winter, page 26
• Basic Botany and Plant Growth, page 26
• Gardening 101
• Caring for Your Landscape, page 26

ELECTIVE COURSES:
These courses change seasonally, and 40 class hours of electives are the minimum required to complete your certificate. Electives are created in response to student requests, allowing students to pursue their specific interests.

ELECTIVE CLASSES THIS SEASON INCLUDE:

• Design Strategies for an English Garden, page 24
• I Need a Plan: 4 classes listed on page 25
• Plants of Distinction: 3 classes listed on page 28
• The WOW Factor: 3 classes listed on page 27
• A Rose by Any Other Name, page 27
• The Life Beneath Our Feet, page 29
• An Herbal Primer, page 29
• Small Group Workshop: Planting in a Post-Wild World, page 30
• Growing for Seed, page 31
REGISTRATION FORM

Registrant name

Address

City     State    Zip

Daytime phone   Cell phone

Email

REGISTRATION POLICY: Please pre-register for all programs and complete any fee payment at that time. Registrations are accepted on a first come, first served basis, no registration is complete without payment, and program space will be allocated on a first paid, first reserved basis. To register please call 919-668-1707 or email gardenseducation@duke.edu.

CANCELLATION POLICY: You may cancel your enrollment and receive a refund of your fee up to a week before the scheduled start date of a class. Any classes canceled by Duke Gardens will result in a complete refund. Please note that camps require further advance notice for cancellations.

WEATHER POLICY: Occasionally weather disrupts a schedule; last-minute changes will be noted on the voicemail message at 919-668-1707.

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FRIENDS OF DUKE GARDENS ENROLLMENT

To qualify for membership discounts and other benefits, please send a separate check payable to Duke Gardens.

Check one of the boxes below:

- Duke student $25
- Individual $50
- Dual (spouses/partners) $75
- Family (includes children under age 18) $100
- Terraces Society $250
- Iris Society $500
- Pergola Society $1,000
- Directors Society $2,500
- Mary Duke Biddle Society $5,000
- Mary D. B. T. Semans Society $10,000
- Corporate Friends $5,000
Sarah P. Duke Gardens creates and nurtures an environment in the heart of Duke University for learning, inspiration, and enjoyment through excellence in horticulture.