Despite the weather you may see outside your window, this is a reminder that spring IS just around the corner!

And the Gardens are poised for a magnificent spring. Each week from here through the summer will bring new color and fragrance to enjoy in the Gardens.

Come early and often to catch the lovely fragrance of Witchhazels, the graceful paleness of Magnolia blossoms and the renewing sight of vegetables emerging from warming soil.

Learn of the amazing interaction between Trillium plants and ants in the Blomquist Gardens. The delicate dance between these two delights me and I encourage all of you to read about this on the interpretive signs in the Blomquist.

Let the Gardens be your winter tonic this year and join us this season.

• Spring Break Camp, March 28 through April 1
• Art and Nature: Art exhibit inspired by the W.L. Culberson Asiatic Arboretum
• The Art of Gardening lecture by Bill Thomas, executive director of Chanticleer
• Two new school programs to assist schools in meeting their math and science standards.

This season, more than most, the Gardens is new every day. Come see what is blooming today!

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.

WALKING TOURS: Group is limited to 15 individuals.

The best way to explore 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 roses, enjoy the hidden gems and discover your favorite space in the Gardens.

TROLLEY TOURS: No minimum, but a maximum of 5 people in a shared trolley.

The trolley tours take you along the 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.

These tours fill up rapidly; we ask for advance reservations by 1:00 pm the previous day. Please call 919-668-1707 to make a reservation.

TOUR INFORMATION:

- Offered Tuesdays through Fridays, from mid-March through mid-November.
- 10 am, with an additional tour available at 2:00 pm in spring and fall
- Allow for 1 to 1 ½ hours
- $8 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
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

TERRACE CAFÉ: Serves sandwiches, salads and ice cream. Located in the cottage on the left as you enter the Terrace Gardens via the pergola.

Café hours (seasonal and weather permitting): Mon.-Fri., 11 am-3 pm / Sat., 10 am-4 pm / Sun., noon-4 pm. Groups may arrange lunches at least three days in advance by calling 919-660-3957.

PARKING: Two lots are available just inside the Anderson Street entrance to the Gardens. The fees for parking help ensure that spaces are available for Gardens visitors. Parking fees apply on Monday – Friday from 8 am to 5 pm, and Saturday/Sunday from 1 pm to 5 pm. Parking passes are available for purchase from the machines located in each parking lot. If a machine is malfunctioning, please go to the information desk inside the Doris Duke Center.

Weekend parking update: Duke Gardens now offers weekend parking in two nearby lots. One is south of the Gardens entrance on Anderson St. before the intersection with Campus Drive and the second is at Duke University’s H Lot, at the corner of Yearby Avenue and Anderson Street. The H lot is a 5-minute walk from Duke Gardens’ main entrance and is open 8 am to 8 pm on Saturdays, Sundays & holidays.

Please help us care for this botanic garden and ensure that all visitors enjoy their time here by refraining from the following:

- Climbing trees, swimming or wading
- Using sports equipment, balls, balloons or kites
- Feeding the wildlife, except for approved duck food (purchase in The Terrace Shop)
- Riding bicycles, skates, skateboards, etc.
- Smoking

Please also abide by the following policies:

- Keep dogs leashed (6-foot maximum) and out of plantings
- Portrait photography is by permit only
- Leave plants and all plant parts for everyone to enjoy
- Carry out what you carry in

A full list of policies is posted at entrances and online. Thank you for your cooperation.
AN INVITATION TO MEMBERSHIP

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

All membership levels include these benefits:

• Education program discounts at Duke Gardens
• 10% discount on Terrace Shop purchases
• Invitations to special Friends events
• Reciprocal admission benefits to nearly 300 gardens in North America
• Flora magazine
• Members’ early access to the spring and fall Plant Sales
• Invitation to quarterly Welcome to Duke Gardens program

With support from members of the Friends of Duke Gardens, we have accomplished the following in the past year:

• Hosted 6800 Durham Public School children as they learned about nature and the connection between science and art in programs at Duke Gardens
• Welcomed 23 children with a scholarship to summer Nature Adventures Camp
• Offered more than 200 programs and classes to local gardeners
• Provided a variety of activities and experiments for visitors at Saturday Exploration Stations
• Donated 2,000 lbs. of fresh organic produce to local hunger relief organizations from the Charlotte Brody Discovery Garden
• Continued to maintain excellence in horticulture throughout the 55 acres of Duke Gardens

Become a member of Duke Gardens’ Friends group today, and help us build our future!
Additional membership information, page 40
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 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.
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

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, or complete an application at gardens.duke.edu/support/volunteer.
CHILDREN, FAMILY & SCHOOL PROGRAMS

HOMESCHOOL & FAMILY PROGRAMS

DIG IT! GARDENING FOR KIDS

Work with hand tools, play with dirt and explore nature through games, free play and organic gardening in the Charlotte Brody Discovery Garden. Sign up for one or more sessions. Healthy snack provided. No strollers or unregistered siblings, please.

FOR CHILDREN AGES 4-10, ADULT CHAPERONE REQUIRED FOR 4-YEAR-OLDS.
10 WEDNESDAYS 4-5:30 PM, MARCH 16-MAY 18
LOCATION: PLEASE MEET IN THE CHARLOTTE BRODY DISCOVERY GARDEN.
FEE PER SESSION: GARDENS MEMBERS $7; GENERAL PUBLIC $10.
REGISTER FOR ALL 10 SESSIONS AT $6/$9 PER SESSION.

NATURE FOR SPROUTS

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 or more sessions.

FOR CHILDREN AGES 3-5. ADULT CHAPERONE REQUIRED.
FRIDAYS, 10:30-11:30 AM
LOCATION: MEET AT THE DORIS DUKE CENTER • FEE: GARDENS MEMBERS $7; GENERAL PUBLIC $10.
REGISTER FOR ALL EIGHT SESSIONS AT $6/$9 PER SESSION.
NATURE NAVIGATORS CERTIFICATE PROGRAM

Explore the natural world with our new certificate program for young naturalists! All classes listed below are eligible for certificate credit. No additional fee to participate in the certificate program; registration required before attending each class. Upon completion of each age range certificate program, you will receive a Nature Navigators certificate and a surprise reward that will help you continue your nature studies at home.

REQUIREMENTS:
- Certificates available for three age groups: children ages 4-5, 6-8 or 9-12 years old. All classes listed below qualify towards 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.

CLASSES FOR CHILDREN AGES 4-5 AND CHILDREN 6-8

EMERGING FROM WINTER: Animal Adaptations
Monday, March 14

Where have all the animals been? Life is emerging from its winter hiding places. The younger group will explore animal adaptations to winter, as the older group looks for hidden insect life cycles in the Gardens.

SECTION A: CHILDREN AGES 4-5; 10:30-11:30 AM. ADULT CHAPERONE REQUIRED.
SECTION B: CHILDREN AGES 6-8; 10:30 AM-NOON.
PLEASE ASK ABOUT OUR YOUNGER SIBLING POLICY.
LOCATION: PLEASE MEET AT THE DORIS DUKE CENTER.
FEE: GARDENS MEMBERS $7 PER SECTION; GENERAL PUBLIC $10 PER SECTION.
REGISTER FOR 5 OR MORE CLASSES AT A FEE OF $6/$9.

TREE DETECTIVES
Monday, April 11

Take a closer look at trees to become a tree detective. Use leaf, seed and bark clues to find mystery trees. In addition, the older group will practice leaf and twig based tree ID by making their own identification key.

SECTION A: CHILDREN AGES 4-5; 10:30-11:30 AM. ADULT CHAPERONE REQUIRED.
SECTION B: CHILDREN AGES 6-8; 10:30 AM-NOON.
PLEASE ASK ABOUT OUR YOUNGER SIBLING POLICY.
LOCATION: PLEASE MEET AT THE DORIS DUKE CENTER.
FEE: GARDENS MEMBERS $7 PER SECTION; GENERAL PUBLIC $10 PER SECTION.
REGISTER FOR 5 OR MORE CLASSES AT A FEE OF $6/$9.
HOMESCHOOL & FAMILY PROGRAMS

CLASSES FOR CHILDREN AGES 4-5 AND CHILDREN 6-8 (CONTINUED)

MICRO MYSTERY
Monday, April 25
The garden comes alive each spring, teeming with the smallest of things. Take a walk to investigate tiny life with magnification. In addition, the older group will use microscopes and see their findings on a projector screen.

SECTION A: CHILDREN AGES 4-5; 10:30-11:30 AM. ADULT CHAPERONE REQUIRED.
SECTION B: CHILDREN AGES 6-8; 10:30 AM-NOON.
PLEASE ASK ABOUT OUR YOUNGER SIBLING POLICY.
LOCATION: PLEASE MEET AT THE DORIS DUKE CENTER.
FEE: GARDENS MEMBERS $7 PER SECTION; GENERAL PUBLIC $10 PER SECTION.
REGISTER FOR 5 OR MORE CLASSES AT A FEE OF $6/$9.

FLOWER FEST
Monday, May 9
Springtime brings a profusion of blooms to the Gardens! Explore the thousands of flowers with a scavenger hunt. In addition, the older group will learn basic flower anatomy.

SECTION A: CHILDREN AGES 4-5; 10:30-11:30 AM. ADULT CHAPERONE REQUIRED.
SECTION B: CHILDREN AGES 6-8; 10:30 AM-NOON.
PLEASE ASK ABOUT OUR YOUNGER SIBLING POLICY.
LOCATION: PLEASE MEET AT THE DORIS DUKE CENTER.
FEE: GARDENS MEMBERS $7 PER SECTION; GENERAL PUBLIC $10 PER SECTION.
REGISTER FOR 5 OR MORE CLASSES AT A FEE OF $6/$9.

WORKSHOP: PLANTING A POLLINATOR GARDEN
Monday, May 23
Learn about how you can help pollinators at home by supporting their whole life cycle with a pollinator garden. We’ll learn what the garden needs by planting an example garden in the Charlotte Brody Discovery Garden children’s area and making a mini bee habitat. Then you’ll take home plants for your own yard.

SECTION A: CHILDREN AGES 4-5; 10:30-11:30 AM. ADULT CHAPERONE REQUIRED.
SECTION B: CHILDREN AGES 6-8; 10:30 AM-NOON.
PLEASE ASK ABOUT OUR YOUNGER SIBLING POLICY.
LOCATION: PLEASE MEET AT THE DORIS DUKE CENTER.
FEE: $25, INCLUDES 2 PLANTS, NATIVE POLLINATOR SEED MIX AND A DIY NATIVE BEE HABITAT.
**CLASSES FOR CHILDREN AGES 9-12**

**PLANT EVOLUTION**

**Monday, March 21**

Get out your magnifying glass to travel in time to the land of giant centipedes! Learn how mosses and liverworts colonized land. We will learn about plant vascular structures and modern plants as well as “living fossils.”

**CHILDREN AGES 9-12: 1-2:30 PM. PLEASE ASK ABOUT OUR YOUNGER SIBLING POLICY.**

**LOCATION: PLEASE MEET AT THE DORIS DUKE CENTER.**

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

**REGISTER FOR 5 OR MORE CLASSES AT A FEE OF $6/$9.**

**DIGITAL NATURE PHOTOGRAPHY**

**Monday, April 18**

Learn nature observation skills for a new way of seeing. We will teach the basics of composition and focus and answer questions about your digital camera. We will go on a photography walk using learned skills, and end with a slideshow to share our work.

**CHILDREN AGES 9-12: 1-2:30 PM. PLEASE ASK ABOUT OUR YOUNGER SIBLING POLICY.**

**LOCATION: PLEASE MEET AT THE DORIS DUKE CENTER.**

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

**REGISTER FOR 5 OR MORE CLASSES AT A FEE OF $6/$9.**

**WETLAND INVESTIGATIONS**

**Monday, May 16**

Wetlands are vitally important to water quality. After learning about pollution sources, we will investigate wetlands in the Gardens, and finish with hands-on water quality tests.

**CHILDREN AGES 9-12: 1-2:30 PM. PLEASE ASK ABOUT OUR YOUNGER SIBLING POLICY.**

**LOCATION: PLEASE MEET AT THE DORIS DUKE CENTER.**

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

**REGISTER FOR 5 OR MORE CLASSES AT A FEE OF $6/$9.**

**WORKSHOP: PLANTING A POLLINATOR GARDEN**

**Monday, May 23**

Learn about how you can help pollinators at home by supporting their whole life cycle with a pollinator garden. We’ll learn what the garden needs by planting an example garden in the Charlotte Brody Discovery Garden children’s area and making a mini bee habitat. Then you’ll take home plants for your own yard.

**CHILDREN AGES 9-12: 10:30 AM-NOON. ADULT CHAPERONE REQUIRED.**

**PLEASE ASK ABOUT OUR YOUNGER SIBLING POLICY.**

**LOCATION: PLEASE MEET AT THE DORIS DUKE CENTER.**

**FEE: $25, INCLUDES 2 PLANTS, NATIVE POLLINATOR SEED MIX AND A DIY NATIVE BEE HABITAT.**
HOMESCHOOL & FAMILY PROGRAMS

SPECIAL EVENTS FOR FAMILIES

THURSDAYS, 10:30 AM
NATURE STORYTIME

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

Free!

<table>
<thead>
<tr>
<th>MARCH</th>
<th>APRIL</th>
<th>MAY</th>
<th>JUNE</th>
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<tbody>
<tr>
<td>MARCH 17</td>
<td>APRIL 7</td>
<td>MAY 5</td>
<td>JUNE 2</td>
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<td>MARCH 24</td>
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<td>APRIL 28</td>
<td>MAY 26</td>
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LOCATION: PLEASE MEET IN THE CHARLOTTE BRODY DISCOVERY GARDEN STORY CIRCLE.
Free drop-in event. Parking fees apply.

SATURDAYS
EXPLORATION STATION:
Free drop-in activities for all

Free!

Explore the science of plants and animals with seasonal activities for you and your family. Look for the “Exploration Stations” throughout the Gardens and enjoy seasonal demonstrations, experiments and hands-on projects at each station.

SATURDAYS, APRIL 2, 9, 16, 23, 30 AND MAY 7, 14, 21, 28, 5, 12, 19, 26, 3, 10, 17, 24, 31, 1-3 PM
FOLLOW SIGNS TO EACH STATION. *Free drop-in event. Parking fees apply.*

Online & at the Gardens

PROJECT BUDBURST: Timing is Everything

Free!

Plants tell a story about our changing climate. Phenology is the science of tracking a plant. The timing of a plant leafing, flowering and fruiting is affected by temperature, rainfall and day length.

A worldwide network of Citizen Scientists is being created to track the changes in plant seasons, and you can join through Duke Gardens. The data will go into an international resource, the Plant Phenology Network, to assist scientists studying climate.

Look for the Project Budburst icon on our website to help collect the information from plants in North Carolina. Or go to budburst.org/gardens-duke.
TERRIFIC TANGOS

Sunday, May 8, 2 pm

A performance by Alma Doefman and Julian Hass featuring flute and bandoneón (an Argentinean accordion) playing traditional folk and tango music from Argentina and Peru.

CHILDREN AGES 9-12: 1-2:30 PM. PLEASE ASK ABOUT OUR YOUNGER SIBLING POLICY.
LOCATION: DORIS DUKE CENTER
TICKETS AVAILABLE AT 919-560-2788 OR AT MALLARMEMUSIC.ORG
FEE: $5 FOR CHILDREN (12 AND UNDER); $10 FOR ADULTS

INSTRUMENT ZOO

Sunday, May 8, noon to 3 pm

Free! Everyone is welcome to try out an instrument at the Instrument Zoo, available before and after the Mallarme performance.

Free drop-in event.
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<tr>
<th>CHILD’S AGE/ GRADE LEVEL</th>
<th>DATE OF CAMP</th>
<th>CAMP TOPIC</th>
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<tbody>
<tr>
<td>GRADES K-5</td>
<td>MARCH 28-APRIL 1</td>
<td>NATURE ADVENTURES: SPRING BREAK CAMP</td>
</tr>
<tr>
<td>GRADES K-2</td>
<td>JUNE 13-17</td>
<td>PLANT IT, GROW IT, EAT IT: Plant, tend, harvest and taste fruits and vegetables in the Charlotte Brody Discovery Garden. Each day we will have work time and dirt time in the children’s garden, and we will end the week with a harvest of delicious seasonal produce to take home.</td>
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<td>REPEATS JULY 25-29</td>
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<tr>
<td>GRADES K-2</td>
<td>JUNE 27-JULY 1</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>
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<tr>
<td>GRADES K-2</td>
<td>JULY 11-15</td>
<td>ANIMALS IN THE GARDENS: Birds, bugs, ducks and fish, oh my! Prowl the Gardens looking for a variety of animal life in our flowers, fields, ponds and streams.</td>
</tr>
<tr>
<td>GRADES 3-5</td>
<td>JUNE 20-24</td>
<td>ART AND SCIENCE CAMP: How are artists and scientists similar? We will observe nature closely, have fun with hands-on experiments, and learn the science of color and form to make expressive artworks.</td>
</tr>
<tr>
<td>GRADES 3-5</td>
<td>JULY 18-22</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>GRADES 3-5</td>
<td>AUG. 1-5</td>
<td>PLANT IT, GROW IT, EAT IT: Plant, tend, harvest and taste fruits and vegetables in the Charlotte Brody Discovery Garden. Each day we will have work time and dirt time in the children’s garden, and we will end the week with a harvest of delicious seasonal produce to take home.</td>
</tr>
<tr>
<td>ALL CAMPERS</td>
<td>AUG 5</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 SPRING BREAK CAMP. 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.
SUMMER GARDEN WORKSHOPS: Ages 12-16

**GIRLS IN THE GARDENS: AN HERBAL SPA FOR YOUNG WOMEN**

Take time to refresh, rejuvenate and empower yourself by learning to make natural self-care products in a supportive environment. Take home freshly made salves, oils and teas from the gardens.

TUESDAY-THURSDAY, JUNE 28-30, 10 AM-3 PM.
LOCATION: CHARLOTTE BRODY DISCOVERY GARDEN • FEE: $200 • PARTICIPANT LIMIT: 12

**PLANT PRODUCTS WORKSHOP**

*New!* Humans depend on plants for food, clothing, shelter and survival. Explore the Gardens with a makers eye and learn to make first-aid supplies, edible delights and useful tools using parts of plants.

TUESDAY-THURSDAY, JULY 5-7, 10 AM-3 PM.
LOCATION: CHARLOTTE BRODY DISCOVERY GARDEN • FEE: $200 • PARTICIPANT LIMIT: 12
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.

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 $3 per student, with the exception of Garden Walk ($1 per student); $30 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.

HOW TO REGISTER: Registration is required for all groups planning to visit the Gardens. Thanks 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.
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.

• 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.

PRE-K – K

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

• SENSE-ATONAL 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: 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: 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.

• Free for dps students. Otherwise standard fees apply.

DOUBLE EXPOSURE: Connecting Science and Art at Duke Gardens and Nasher Museum of Art. 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 http://nasher.duke.edu/k-12/#k-12-tours or contact the Nasher’s education office at 919-684-1169.
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.”

- **HAIKU TRAIL INTO THE GARDENS**: *(meets standard 3.C.1)* Collect words on a sensory walk through the Culberson Asiatic Arboretum, and write, revise and edit your experience into a crafted haiku poem.

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.

- **HAIKU TRAIL INTO THE GARDENS**: *(meets standard 3.C.1)* Collect words on a sensory walk through the Culberson Asiatic Arboretum, and write, revise and edit your experience into a crafted haiku poem.

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.

- **HAIKU TRAIL INTO THE GARDENS**: *(meets standard 3.C.1)* Collect words on a sensory walk through the Culberson Asiatic Arboretum, and write, revise, edit your experience into a crafted haiku poem.
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

• **GENERAL TOUR:** Contact gardenseducation@duke.edu

TEACHER TRAININGS

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

WEDNESDAY & THURSDAY, JUNE 22 & 23, 9 AM-4 PM • FEE: $200 • PARTICIPANT LIMIT: 12
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.
ART AND NATURE: Artwork inspired by the W.L. Culberson Asiatic Arboretum

Free! 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 richness of the W.L. Culberson Asiatic Arboretum in creating their work of art to display.

FREE DROP-IN EXHIBIT FOR ALL AGES. ADULT CHAPERONE REQUIRED. SATURDAY, MARCH 12, 4:30-6 PM, PLEASE JOIN US FOR AN ARTISTS’ RECEPTION SATURDAY-WEDNESDAY, MARCH 12-16, EXHIBIT OPEN 9 AM-4 PM LOCATION: DORIS DUKE CENTER Parking fees apply on weekdays from 9 am to 5 pm and Saturday/Sunday after 1 pm.

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, April 1, from 4-6 pm. Memberships are available on site during the preview sale and on the day of the sale.

PUBLIC SALE OPENING: SATURDAY, APRIL 2, 8 AM-NOON. FURTHER INFORMATION AT GARDENS.DUKE.EDU MEMBERS’ DISCOUNT DOES NOT APPLY DURING PLANT SALES.

Online & at the Gardens

PROJECT BUDBURST: Timing is Everything

Free! Plants tell a story about our changing climate. Phenology is the science of tracking a plant. The timing of a plant leafing, flowering and fruiting is affected by temperature, rainfall and day length.

A worldwide network of Citizen Scientists is being created to track the changes in plant seasons, and you can join through Duke Gardens. The data will go into an international resource, the Plant Phenology Network, to assist scientists studying climate.

Look for the Project Budburst icon on our website to help collect the information from plants in North Carolina. Or go to budburst.org/gardens-duke.
ADULT EDUCATION PROGRAMS

GARDENING & HORTICULTURE

BEE Schooled

Durham County Beekeepers Club

Learn everything necessary to be a successful beekeeper. This 10-week course will cover the fundamentals, including planning, equipment needs, annual calendars and hive products. You will also learn specific information about bees, from genetics and nutrition to disease prevention and nectar and pollen sources. The instructors are experienced, certified beekeepers and State of North Carolina Apiary Inspectors. Participants will complete their testing to become certified beekeepers.

10 Mondays, Jan. 18–March 21, 6:30–8:30 PM
1 Saturday Field Session, March 26, Time TBA • Fee: $50

Design Strategies for an English Garden

Annabel Renwick, horticulturist, 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. Then 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. 20–Feb. 10, 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 36
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, February 2 & 9**
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.

**CREATE A COLORFUL MIXED BORDER • 2 Wednesdays, Feb. 17 & 24**
Beth Rudd-Myers, landscape designer, Brightleaf Landscaping

Successful planting design uses a combination of texture, seasonality, color and size in a planting of shrubs, perennials and groundcovers to maximize beauty and minimize maintenance. Practice these skills with Beth’s guidance as she introduces you to a variety of plants and design strategies to create your own beautiful border.

**THE GEOMETRY OF A GARDEN • 2 Tuesdays, March 22 & 29**
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 Tuesdays, April 19 & 26**
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.

TUESDAYS, 6:30-9 PM  
LOCATION: DORIS DUKE CENTER  
PARTICIPANT LIMIT: 15  
FEE PER SECTION: GARDENS MEMBERS $35; GENERAL PUBLIC $45  
FEE TO REGISTER FOR THREE PROGRAMS: GARDENS MEMBERS $93; GENERAL PUBLIC $126  
Qualifies for Home Horticulture Certificate elective course (5 hours each), see page 36
KEEPING THAT TREE ALIVE AND THRIVING!
Alex Johnson, urban forestry manager, city of Durham, NC

Just how does a tree work? How can I purchase a healthy tree and transplant it successfully? As a self-proclaimed “tree geek,” Alex brings a wealth of knowledge, experience and enthusiasm to this program. Learn the fascinating strategies that trees employ to grow and survive and how to select a tree and nurture it through establishment.

THURSDAY, FEB. 4, 6:30-8 PM • LOCATION: DORIS DUKE CENTER
FEE: GARDENS MEMBERS $8; GENERAL PUBLIC $10

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. 4, MARCH 3, APRIL 7, MAY 5, JUNE 2, JULY 7, AUG. 4, 11 AM-NOON
LOCATION: MEET AT THE BLOMQUIST GARDEN ENTRANCE.
PARTICIPANT LIMIT: 15
FEE: GARDENS MEMBERS $5; GENERAL PUBLIC $7
Pre-registration required. Parking fees apply.

MUSHROOM LOGS
Andy Currin, avid vegetable gardener and Duke University campus horticulturist

Enjoy fresh shitake mushrooms grown in your own garden! Each participant will be supplied with a 12” section of log, pre-drilled and ready to “plant” with mushrooms. Andy will take you through the process of seeding the log, sealing it with wax, and then maintaining it for the six months it will take to grow your first crop of mushrooms. Each log should produce mushrooms for several years.

SECTION A: SATURDAY, FEB. 6, 10 AM-NOON
SECTION B: SATURDAY, FEB. 6, 1-3 PM
LOCATION: DORIS DUKE CENTER • PARTICIPANT LIMIT: 15
FEE: GARDENS MEMBERS $30; GENERAL PUBLIC $35
**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. 16-MARCH 8, 6-9 PM**
- **PARTICIPANT LIMIT: 15 • FEE: $130; GARDENS MEMBERS $110**
- *Home Horticulture Certificate required course, see page 36*

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**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 60 plants suitable for North Carolina gardens. You will learn identification skills and design use, and understand the culture of each plant. Each student receives a digital portfolio of plant photos. Class time is primarily outdoors.

- **WINTER SESSION: 3 TUESDAYS, FEB.23-MARCH 8, 3-5:30 PM**
- **SPRING SESSION: 4 WEDNESDAYS, MARCH 16-APRIL 6, 4-6 PM**
- **SUMMER SESSION: 4 WEDNESDAYS, MAY 11-JUNE 1, 4-6 PM**
- **PARTICIPANT LIMIT: 15**
- **FEE PER SESSION: $110; GARDENS MEMBERS $90**
- *Qualifies for Home Horticulture Certificate required course, see page 36*

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**WAYFARING INSECTS:**  
**Invasive Pests in Our Back Yards**  
*Katie Rose Levin, project coordinator, Grounds Department, Duke University*

More and more we hear about insects that are munching their way through our trees. The tree leaves, bark and trunk – all attractive to the Emerald Ash Borer or spring and fall canker-worms. Katie will walk you through the life stages of these pests, describe when our trees are most vulnerable and outline the means to control pests through a variety of methods.

- **THURSDAY, FEB. 25, 6:30-8 PM • LOCATION: DORIS DUKE CENTER**
- **FEE: GARDENS MEMBERS $8; GENERAL PUBLIC $10**
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.

HELLEBORES IN THE WINTER GARDEN: Tuesday, March 1, 2:30-4 PM
Jason Holmes, curator, Doris Duke Center Gardens, Duke Gardens

Greet spring and learn more about this amazing group of early blooming plants. We have been building our hellebore collection, so you can see many new hybrids.

THE SPRING AWAKENING: Thursday, March 10, 2:30-4 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 SCENT OF SPRING: Thursday, March 24, 2:30-4 PM
Bobby Mottern, director of horticulture, Duke Gardens

Spring is a fragrant season. Take a walk with Bobby to learn of plants that charm us with their springtime perfumes.

THE TERRACES PREVIEW: Thursday, April 14, 2:30-4 PM
Mike Owens, curator, Historic Gardens, Duke Gardens

The Terraces are re-planted several times over the course of a growing season. Walk through this garden with Mike to learn which plant combinations to watch this season.

EARLY SUMMER BLOSSOMS: Thursday, June 9, 2:30-4 PM
Bobby Mottern, director of horticulture, Duke Gardens

Duke Gardens displays plants in bloom throughout the year. Learn which plants ornament our early summer in this stroll through the Gardens to see fringe trees, late magnolias, peonies and more.

LOCATION: DORIS DUKE CENTER
FEE PER SESSION: GARDENS MEMBERS $5; GENERAL PUBLIC $7.
SIGN UP FOR THE THREE OR MORE AT $4/$6; PER SESSION.
PARTICIPANT LIMIT PER SESSION: 15
Qualifies for Home Horticulture Certificate elective course (1.5 hours each), see page 36
Qualifies for Nature Photography Certificate optional course, see page 37
PEST MANAGEMENT IN THE ORGANIC GARDEN
Sarah Parsons, MEM, Duke University, and Ph.D. candidate in entomology at NCSU

**New!** Insects are essential partners in the garden and most are welcome. Others can be a menace and should be controlled. Learn the various techniques to minimize pests while maximizing insect friends. Sarah will cover the principles of integrated pest management as well as crop rotation, intercropping, bio-controls and using non-synthetic products to grow healthy fruitful vegetable plants.

3 WEDNESDAYS, MARCH 2, 9 & 16, 6:30-8:30 PM
PARTICIPANT LIMIT: 15
FEE: GARDENS MEMBERS $70, GENERAL PUBLIC $90
Qualifies for Home Horticulture Certificate elective course (6 hours), see page 36

ART AND NATURE: Artwork inspired by the W.L. Culberson Asiatic Arboretum

**Free!** 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 richness of the W.L. Culberson Asiatic Arboretum in creating their work of art to display.

FREE DROP-IN EXHIBIT FOR ALL AGES. ADULT CHAPERONE REQUIRED.
SATURDAY, MARCH 12, 4:30-6 PM, PLEASE JOIN US FOR AN ARTISTS’ RECEPTION
SATURDAY-WEDNESDAY, MARCH 12-16, EXHIBIT OPEN 9 AM-4 PM
LOCATION: DORIS DUKE CENTER
Parking fees apply on weekdays from 9 am to 5 pm and Saturday/Sunday after 1 pm.

THE ANNUAL TAMMI ANDERSON LECTURE
THE ART OF GARDENING:
Inspiration from Chanticleer

R. William Thomas, executive director, Chanticleer Gardens, Wayne, PA

**New!** What is Chanticleer? Bill Thomas has described it as “a three-dimensional work of ever-changing art.” Others have pronounced Chanticleer the most romantic, imaginative and exciting public garden in America. Each of its many garden areas demonstrates ideas that are useful and inspirational to home gardeners. Chanticleer encourages us all to take delight in our gardens and introduces us to new ideas and plants.

THURSDAY, MARCH 17, 7-8:30 PM
LOCATION: DORIS DUKE CENTER
FEE: FREE TO GARDENS MEMBERS; GENERAL PUBLIC $10
Book available for purchase that evening and Bill will sign books after the lecture.
GARDEN INSPIRATION

R. William Thomas, executive director, Chanticleer Gardens, Wayne, PA

Join Bill Thomas in a roving classroom as you walk the Gardens discussing design techniques and plant combinations. Learn about Chanticleer’s strategies for creating a dynamic garden that pushes past the boundaries to feel fresh and ever-changing. The walk will conclude with lunch in the classroom, so you’ll have the opportunity to follow up with questions for Bill.

FRI, MARCH 18, 9 AM-1 PM
LOCATION: DORIS DUKE CENTER
FEE: GARDENS MEMBERS $99; GENERAL PUBLIC $125; LUNCH INCLUDED.

COOKING FROM THE GARDEN

Katie Coleman, chef, Durham Spirits Company

Spring and summer vegetables! Join us for one class, or the entire series. Each class includes in-class tastings.

SALADS FROM THE SPRING GARDEN • Saturday, March 19
Learn fresh, new ideas for flavorful spring salads. Make the salads as a group and then enjoy an early salad lunch!

APPETIZERS FROM THE GARDEN • Saturday, April 30
Prepare for a treat and learn a variety of garden-fresh appetizers to make for your next gathering. The class ends with a tasting of everything you have made.

COLD SOUP AND SALADS FROM THE SUMMER GARDEN • Saturday, June 4
Another season of salad ideas along with refreshing cold soups. Work as a group to make recipes and then enjoy an early salad and soup lunch!

SATURDAYS, 9:30-11:30 AM
LOCATION: DORIS DUKE CENTER
FEE PER SESSION: $25; GARDENS MEMBERS $20
FEE TO REGISTER FOR ALL THREE: $69; GARDENS MEMBERS $54
PARTICIPANT LIMIT: 12
GARDENING & HORTICULTURE

PINE CLOUDS MOUNTAIN STREAM GARDEN
Paul D. Jones, curator, or Michelle Rawlins, horticulturist, Culberson Asiatic Arboretum, Duke Gardens

Join Paul or Michelle for a tour of a new garden in the Culberson Asiatic Arboretum: Pine Clouds Mountain Stream. This amazing ‘ruins’ style Japanese garden features two water courses and several waterfalls ranging from a delicate trickle to a rushing large fall that drops into a water basin. The garden invites visitor interaction with multiple paths, a covered sitting area and lush plantings surrounding the water features. This is a garden you will want to return to time and again to note seasonal changes.

FRIDAY, MARCH 25, 10 AM-NOON
LOCATION: MEET AT THE DORIS DUKE CENTER.
PARTICIPANT LIMIT: 15
FEE: GARDENS MEMBERS $5; GENERAL PUBLIC $7
Pre-registration required. Parking fees apply.

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, April 1, from 4-6 pm. Memberships are available on site during the preview sale and on the day of the sale.

THE SALE IS OPEN TO THE PUBLIC ON SATURDAY, APRIL 2, FROM 8 AM-NOON.
FURTHER INFORMATION AT GARDENS.DUKE.EDU
FRIDAY, APRIL 1, 4-6 PM, GARDENS MEMBERS PREVIEW
MEMBERS’ DISCOUNT DOES NOT APPLY.

SOIL
Bryce Lane, NC State Alumni Distinguished Undergraduate Professor Emeritus

You might be surprised to find out that soil contains not only minerals and organic material, but also gases, liquids and countless microorganisms, all working together to support life on earth. Without soil, plants would not grow, the cycle of water would be much different, water quality would diminish and soil dwelling creatures would not exist. Bryce will take you through the process of understanding garden soils, how to build and improve your soil and how to prepare a bed for planting. This workshop will include hands-on activities and soil tests that you can use again and again in your garden.

SATURDAY, APRIL 23, 9:30 AM-12:30 PM
LOCATION: MEET AT THE DORIS DUKE CENTER.
PARTICIPANT LIMIT: 25
FEE: GARDENS MEMBERS $30; GENERAL PUBLIC $40
Qualifies for Home Horticulture Certificate elective course (3 hours), see page 36
ADULT EDUCATION: GARDENING & HORTICULTURE CLASSES

PLANT PROPAGATION

Jason Holmes, curator, and Jan Watson, horticulturist, Duke Gardens

Learn to grow your own plants using two very simple techniques: dividing and cuttings. Classes include time in the Gardens discussing and collecting to propagate specific plants and time in the greenhouse practicing your skills. Here is your chance to expand your plant collection with expert guidance.

DIVIDING A PLANT: Join this class to see a variety of plants divided to form multiple plants and learn how to assess a plant for division.

TUESDAY, APRIL 26, 10:30 AM-NOON • LOCATION: GREENHOUSE CLASSROOM
PARTICIPANT LIMIT: 15 • FEE: GARDENS MEMBERS $24; GENERAL PUBLIC $30
Qualifies for Home Horticulture Certificate elective course (1.5 hours), see page 36

CUTTINGS: Collect plant cuttings from the Gardens and learn how to root them.

2 TUESDAYS, MAY 3 & 10, 10:30 AM-NOON • LOCATION: GREENHOUSE CLASSROOM
PARTICIPANT LIMIT: 15 • FEE: GARDENS MEMBERS $32; GENERAL PUBLIC $40
Qualifies for Home Horticulture Certificate elective course (3 hours), see page 36

HORTON GROVE: Triangle Land Conservancy

Ken Moore, former assistant director, North Carolina Botanical Garden

At just over 708 acres, Horton Grove is the Triangle Land Conservancy’s largest preserve. Once part of Stagville Plantation, Horton Grove now contains 5 miles of streams, 8 miles of trails and an amazing range of habitats and ecologies. We arrive at Horton Grove in the evening to enjoy the sunset and twilight in an evocative landscape. Ken will show you a rare, fairly undisturbed grove of Piedmont Forest and restored prairies. We will supply binoculars. Please come dressed for moderate hiking. Participants will meet at the site. Directions supplied and carpooling can be coordinated. A participation agreement will be required of each participant.

THURSDAY, APRIL 28, 6:30-8:30 PM
LOCATION: MEET AT HORTON GROVE. DIRECTIONS WILL BE SENT.
FEE: GARDENS MEMBERS $12; GENERAL PUBLIC $15
PARTICIPANT LIMIT: 15
Qualifies for Home Horticulture Certificate elective credit (2 hours), see page 36
Qualifies for Nature Photography Certificate optional course, see page 37
TREE WALK AND TALK

Bryan Lowrance, horticulturist and arborist, Assistant Local Manager, Bartlett Tree Experts, Raleigh, N.C.

New! Walk the Gardens with Bryan and take a closer look at trees. Bryan will discuss insect and disease issues, the cultural needs of trees, pruning and help you sort out how to help a tree thrive.

THURSDAY, MAY 19, 6:30-8:30 PM
LOCATION: DORIS DUKE CENTER
FEE: GARDENS MEMBERS $25; GENERAL PUBLIC $30
PARTICIPANT LIMIT: 15

THE HERBAL HOME

Lindsey Fleetwood, horticulturist, Sara Smith, registrar, and Kavanah Anderson, coordinator of children’s education, Duke Gardens

New! Botanical products are kinder and gentler, refreshing and sensible for both your home and your personal care. Learn how to use botanicals for cleaning, air freshening and skincare. All supplies and containers included.

SECTION A: TUESDAY, MAY 10, 6:30-9 PM
HOMEMADE PERSONAL PRODUCTS SUCH AS SHAMPOO, CONDITIONERS, HAIR RINSES, BODY SCRUBS, FOOT SCRUBS AND HAND LOTIONS.

SECTION B: TUESDAY, MAY 17, 6:30-9 PM
HOMEMADE HOUSEHOLD PRODUCTS SUCH AS INSECT REPELLENT, BATHROOM CLEANERS, ALL-PURPOSE CLEANERS, LAUNDRY DETERGENT AND CARPET DEODORIZER.

LOCATION: MEET AT THE DORIS DUKE CENTER.
PARTICIPANT LIMIT: 15 PER SECTION
FEE PER SECTION: GARDENS MEMBERS $55; GENERAL PUBLIC $70.
FEE DISCOUNT TO TAKE BOTH $50/65.

THE WOW FACTOR: Effective Planting Combinations for Your Garden

Bobby Mottern, landscape architect and Duke Gardens’ horticulture director

The best gardens feel somehow effortless and exciting. They have a WOW impact that you want in your own garden. Bobby will introduce you to three different types of plants and discuss strategies for combining plants for maximum impact in your garden.

SECTION A: LINE; THURSDAY, MAY 12, 10:30 AM-NOON
SECTION B: TEXTURE; THURSDAY, MAY 19, 10:30 AM-NOON
SECTION C: COLOR; THURSDAY, MAY 26, 10:30 AM-NOON
LOCATION: MEET AT THE DORIS DUKE CENTER.
PARTICIPANT LIMIT: 15
FEE PER SECTION: GARDENS MEMBERS $12; GENERAL PUBLIC $15
FEE FOR ALL: GARDENS MEMBERS $33; GENERAL PUBLIC $39
Qualifies for Home Horticulture Certificate elective course (1.5 hours each), see page 36
DURHAM GARDEN FORUM

An informal group independent of Duke Gardens, the forum meets once a month to enrich its members’ gardening knowledge and skill. Sponsored in partnership with the N.C. Cooperative Extension: Durham County Center.

EPIC SUCCESS WITH TOMATOES, PEPPERS AND EGGPLANTS
March 15
Craig LeHoullier, the NC Tomato Man and author of Epic Tomatoes

Craig returns to the Forum to give us all his knowledge and expertise about growing amazing quantities and varieties of vegetables. Container plants or in-ground plants, Craig will give us insight into a variety of growing techniques.

WATER-WISE GARDENING • April 19
Dr. Barbara Fair, assistant professor, Dept. of Horticultural Science, N.C. State University

Water-wise gardening practices have been a focus of Barbara’s work. She joins us to encourage wise plant selection, thorough site preparation, proper mulching, capturing rain water and efficiently using water.

WHAT’S WRONG WITH MY TREE? • May 17
Bryan Lowrance, horticulturist and arborist, assistant local manager, Bartlett Tree Experts, Raleigh, N.C.

A tree is a significant investment. Bryan will review the basics of planting, exposing the root collar and maintaining for longevity (no volcano mulch!). He will also speak of the potential connection between neonics, other pesticides, mosquito treatments and the loss of beneficial insects that help our trees.

WATER GARDENS FOR YOUR HOME • June 21
Jonathan Kidder, owner and founder of Southern Water Gardens, Inc.

Hear from an expert about creating a living water system in a small pond or even a container. Jonathan designs and installs custom designed ponds, fountains and water features in both residential and commercial landscapes.

2015 GARDENERS’ FAIR: ASK THE EXPERTS • July 19
Featuring area experts and garden suppliers

FREE ADMISSION. TUESDAYS, 6:30-8 PM
LOCATION: DORIS DUKE CENTER
LECTURE FEE: $10 PER MEETING FOR NON-MEMBERS;
FORUM MEMBERS FREE WITH ANNUAL MEMBERSHIP.
$10 PER MEETING FOR NON-MEMBERS PAYABLE TO DURHAM GARDEN FORUM.
For membership information, please email durhamgardenforum@gmail.com.
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 drop-in events. No parking fees after 5 pm. Registration is required at 919-668-1707.

GARDENING IN DURHAM FOR BEGINNERS AND TRANSPLANTS: EVERYTHING YOU NEED TO SUCCEED
Thursday, March 31, 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.

THE PIEDMONT SUN: FRIEND OR FOE IN THE GARDEN?
Thursday, April 7, 6:30-8 PM
Kit Flynn, Durham County Extension master gardener

Free!
It’s a quandary: the six hours of sun that many showy, sun-loving plants require may mean exposure to our killer Piedmont afternoon sun. And then the level of sunlight changes from season to season and year to year. This presentation will give you strategies to read your garden, helping you understand just where the sun is across the arc of the day and over the course of a year. With this information you can situate your sun-loving plants in the most advantageous position possible and enjoy the show!

SUCCESS IN THE SHADE
Thursday, June 23, 6:30-8 PM
Christina Perez, Durham County Extension master gardener

Free!
Instead of looking at the “shadow-zone” as a problem, it is time to look at these areas as assets. This presentation will introduce you to what allows certain plants to adapt to shade and discuss a variety of plants that will fill your shady landscape with lush foliage and color variations.

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.
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 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

THURSDAY, MARCH 31: CHERRY BLOSSOM TEA, 6:30 PM SEATING
SATURDAY, APRIL 9: 10:45 AM AND 1 PM SEATINGS
SATURDAY, APRIL 23: 10:45 AM AND 1 PM SEATINGS
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)
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, offered in Fall
• Caring for Your Landscape, offered in Fall

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 23
• I Need a Plan: 4 classes listed on page 24
• Plants of Distinction: 5 classes listed on page 27
• Pest Management, page 28
• Garden Inspiration, page 29
• Soil, page 30
• Plant Propagation: two classes listed on page 31
• The WOW Factor: 3 classes listed on page 32

For more information or to enroll in a class or certificate program, please call the registrar’s office at 919-668-1707 or email gardenseducation@duke.edu.
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.

This certificate program helps refine and expand your knowledge of equipment, processes, composition and methods while increasing your skill and 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.

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.

• Meet Your New Camera: Introduction to Digital Photography, page 38
• Learning to See in Nature, page 39
• Improving Photo Quality, page 38
• Photographing Plants, page 38
• Three of the required courses from the Home Horticulture Certificate program.

**ELECTIVE COURSES:**
These courses change seasonally, and 30 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 TOPICS MAY INCLUDE:**

• Close-up photography
• Photoshop for nature photographers
• Night photography
• Using light effectively
• Composition skills

For more information or to enroll in a class or certificate program, please call the registrar’s office at 919-668-1707 or email gardenseducation@duke.edu.
MEET YOUR NEW CAMERA:  
An Introduction to Digital Photography  
*Melissa Southern, nature photographer*  

Learn about all your camera’s bells and whistles. In this class we will review all the functions and menus of your camera. Basic photo composition skills will also be discussed. Please bring your camera and manual to each session. All digital cameras from point-and-shoot to SLRs are welcome. Examples of Melissa’s work may be seen at melissasouthern.com.

2 THURSDAYS, JAN. 21 & 28, 6:30-9 PM  
SATURDAY FIELD SESSION JAN. 23, 8 AM-NOON  
LOCATION: DORIS DUKE CENTER  
PARTICIPANT LIMIT: 15  
FEE: GARDENS MEMBERS $90; GENERAL PUBLIC $110  
Qualifies for Nature Photography Certificate required course, see page 37

PHOTOGRAPHING PLANTS  
*Yesenia Bocanegra, photographer and owner, Yesenia Bocanegra Photography*  

Winter exposes the elegant tracery of plants. In this winter season plants are both solid and transparent, 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 featuring composition and technique. Examples of Yesenia’s work may be seen at www.yeseniabocanegra.com.

2 THURSDAYS, FEB. 18 & MARCH 3, 6:30-8:30 PM  
2 SATURDAY FIELD SESSIONS, FEB. 20 & 27, 8-11 AM  
LOCATION: DORIS DUKE CENTER  
PARTICIPANT LIMIT: 15  
FEE: GARDENS MEMBERS $80; GENERAL PUBLIC $100  
Qualifies for Nature Photography Certificate required course, see page 37

IMPROVING PHOTO QUALITY  
*Yesenia Bocanegra, photographer and owner, Yesenia Bocanegra Photography*  

Stretch your skills and learn techniques that 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. See examples of Yesenia’s work at www.yeseniabocanegra.com.

3 WEDNESDAYS, APRIL 7-21, 6:30-9 PM  
2 SATURDAYS, APRIL 9 & 16, 8 AM-NOON  
LOCATION: DORIS DUKE CENTER AND GARDENS  
PARTICIPANT LIMIT: 15  
FEE: GARDENS MEMBERS $120; GENERAL PUBLIC $145  
Qualifies for Nature Photography Certificate required course, see page 37
LEARNING TO SEE IN NATURE

Melissa Southern, nature photographer

Learn to more effectively observe nature, improve your ability to see the possibilities in a setting, and become a “photo-naturalist.” Develop the ability to translate that vision into photographs that communicate to others and create a unique, individual and distinctive photographic voice.

2 MONDAYS, MAY 2 & 9, 7-9 PM
2 SATURDAYS, MAY 7 & 14, 8 AM-NOON
LOCATION: DORIS DUKE CENTER
PARTICIPANT LIMIT: 15
FEE: GARDENS MEMBERS $120; GENERAL PUBLIC $150
Qualifies for Nature Photography Certificate required course, see page 37
MEMBERSHIP INFORMATION

Support Sarah P. Duke Gardens through membership in Friends of Duke Gardens

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.

Your membership gifts enable Duke Gardens to provide essential features, including:

• Free admission
• Education programming
• World-class horticultural design
• Free events for all to enjoy

MEMBERSHIP LEVELS

Duke students and Duke Gardens volunteers..................................................................................$25
Individual...................................................................................................................................$50
Dual (spouses/partners) ..................................................................................................................$75
Family (includes children under age 18).. ......................................................................................... $100

ALL MEMBERSHIP LEVELS INCLUDE

• Education program discounts at Duke Gardens & other participating gardens
• 10% discount on Terrace Shop purchases
• Invitations to special Friends events
• Reciprocal admission benefits to almost 300 gardens in North America
• Flora magazine
ADDITIONAL GIFT RECOGNITION SOCIETIES

Terraces Society .................................................................................................................. $250

INCLUDES MEMBERSHIP BENEFITS PLUS:
• Duke Gardens notecards
• 20% discount on Gothic Bookshop purchases (valid membership card required)
• 2 complimentary gift memberships (please provide names & addresses of recipients)
• Annual Report

Iris Society ...................................................................................................................... $500

INCLUDES TERRACES SOCIETY BENEFITS PLUS:
• 2 complimentary registrations for a Gardens education program

Pergola Society ............................................................................................................. $1,000

INCLUDES IRIS SOCIETY BENEFITS PLUS:
• Complimentary Gardens parking

Please contact us 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.

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

To make a gift, please call 919-684-5579 or go to gardens.duke.edu/support.
Gardens PARTNERS

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

N.C. COOPERATIVE EXTENSION SERVICE: DURHAM COUNTY CENTER
Please see lecture schedule on page 34.
The Durham County Extension Master Gardener Volunteers will be in the Gardens several days of the week to answer all your questions about plants, gardening, insect pests or disease. Please go to durham.ces.ncsu.edu for a complete schedule.

DURHAM PHOTOGRAPHY CLUB AT DUKE GARDENS
Meets on the 3rd Monday of each month, 6:30-8 pm. Please find more information on the club’s Facebook page by entering its name into Facebook’s search box.

TRIANGLE ORCHID SOCIETY
The Triangle Orchid Society conducts its monthly meeting at the Doris Duke Center on the 2nd Monday of each month. Please go to triangleorchidsociety.org for more information.

DURHAM COUNTY BEEKEEPERS
Meets the 3rd Monday of each month, 6:30-9 pm, at the Doris Duke Center.

SARAH P. DUKE IKEBANA INTERNATIONAL CHAPTER #264
For information, contact Carol Krauser, chapter president, at 919-960-2946.

DURHAM GARDEN FORUM
Please see meeting schedule and topics on page xx.

LET’S MOVE!
“Let’s Move!” is a comprehensive initiative launched by First Lady Michelle Obama. It is dedicated to solving the problem of obesity within a generation, so that children born today will grow up healthier and able to pursue their dreams. Working with parents, caregivers, schools, public officials and communities, Let’s Move! is about putting children on the path to a healthy future during their earliest months and years. Let’s Move! Museums & Gardens will focus on interactive exhibits, after-school and summer programming and food service that help young people to make healthy food choices and be physically active.
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 / Duke Gardens volunteer $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.