Learning Programs for Pre-K through 12th Grade

Wave Hill • A public garden and cultural center
Bronx, NY • wavehill.org
Immerse your class in nature as you explore Wave Hill’s glorious gardens and woodlands.

Wave Hill provides innovative, rigorous and engaging education programs for people of all ages and backgrounds. Serving families, school groups, teachers and youth, our programs adopt a hands-on, interdisciplinary approach that sparks excitement and nurtures a connection between people and the natural world.

School Programs at Wave Hill inspire students to make curricular connections through active engagement with the natural world. Skilled educators work individually with each class to provide rich experiences for all learners. Our programs complement classroom learning through hands-on scientific inquiry, artifact exploration and artistic expression.

Wave Hill School Programs support New York City, state and national learning standards. In addition, Wave Hill offers pre- and post-lesson extensions with background information, activities, student worksheets and resources. To learn more, visit wavehill.org/education/school-programs.
Programs for Pre-K

Our Pre-K programs are designed specifically for young learners, and are offered as either a single session or two-session option. The two-session program takes place with the first session in your classroom and the second at Wave Hill; for the single-session program, the location is your choice. These programs immerse your class in nature exploration throughout. The two-session program deepens learning by matching an in-school visit from one of our educators with an outdoor adventure and craft project at Wave Hill.

**Time:** 1 hour  **Maximum class size:** 24 students

**Program fee:** $120 for single session; $215 for two-session program; 20% discount for Title 1 Schools

**Seasons offered:** Fall, Winter and Spring

**Special Needs:** All programs can be adapted to suit the particular learning styles of your students. Please communicate your class’s needs upon booking so that we may provide the most engaging program possible.

**Avian Adventures**
In your classroom, students explore artifacts and learn about how birds live in their environment through song and movement. The session ends with a story about some of the different birds your students may meet on a visit to Wave Hill or a local park!

At Wave Hill, students practice using binoculars and picture guides to observe birds in their natural setting. This is followed by an indoor art-making project where students create their own birds using Model Magic and feathers.

**Seeds We Need**
In your classroom, students are introduced to seeds, why they are important and what they need to grow, using interactive songs and stories. Students explore various seeds to discover where seeds are found and just how different they can look and feel.

At Wave Hill, students review what seeds need in order to grow, and explore the parts of a plant. A walk through the grounds invites investigation of the many different shapes and sizes of seeds and the plants they come from. As a culminating activity, students use seeds to make their own mosaic artwork.
**Programs for K through 2nd Grade**

**Time:** 1.5 hours  
**Maximum class size:** 30 students  
**Program fee:** $150; 20% discount for Title 1 Schools  
**Seasons offered:** Fall and Spring  
**Special Needs:** All programs can be adapted to suit the particular learning styles of your students. Please communicate your class’s needs upon booking so that we may provide the most engaging program possible.

**Walk for the Senses**
We experience the natural world with the tools we have at hand—our senses. This program is a feast for the senses as we tour the grounds discovering new sights, sounds, smells and textures. Students exercise these different senses by creating scented sachets, exploring plants with their magnifying glasses and more.

**Totally Trees**
Wave Hill boasts a collection of extraordinary, stately and very old trees. Through observation and inquiry, students are introduced to some of Wave Hill’s most treasured specimens. They discover how trees grow by exploring a tree’s parts and the role each part plays in a tree’s life cycle. With trees as their inspiration, students create their own unique design projects.

**Seeds We Need**
Seeds span an amazing range of sizes, shapes and forms. Using simple scientific observation and physical exploration, students discover the nature of seeds, their role in the plant lifecycle and the interesting ways they have adapted to their environments. Students learn how seeds are important to animals and people, and create their own unique seed mosaic at the end of the lesson.

**Avian Adventures**
In this lively program, students go bird-watching, using binoculars to closely observe birds. They investigate feathers, feet and skulls to discover how different adaptations help birds thrive in their special niches. A hands-on art project reinforces the experience of this avian adventure.

**Lesson Extensions**
**Grades:** K through 12  
Please find NEW lesson extensions for each school program on the Wave Hill website. Use these free resources before and after field trips to enhance your students’ understanding of STEAM topics as they pertain to local flora and fauna.

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**Self-Guided Nature Walk Grades: K through 12**
Guide your class on an independent exploration of Wave Hill’s gardens and grounds.  
**Pre-registration is required. Fee:** $40 per class; 20% discount for Title 1 Schools.
Programs for
3rd through 5th Grade

Time: 1.5 hours  Maximum class size: 30 students
Program fee: $150; 20% discount for Title 1 Schools
Seasons offered: Fall and Spring (unless otherwise specified)
Special Needs: All programs can be adapted to suit the particular learning styles of your students. Please communicate your class’s needs upon booking so that we may provide the most engaging program possible.

Trees and Ecology
Join us for a creative adventure into the anatomy and ecology of trees. Students explore the parts and functions of trees, and how trees interact with and affect the ecosystems in which they live. In this lesson, students embody different stakeholders in New York’s forest ecosystem, engage in an exploratory forest walk, and collaborate to create an imagined ecosystem of their own.

Amazing Mammals
Get a behind-the-scenes look at urban wildlife while discovering ecology, animal adaptations and the mammals of the New York metropolitan region. After learning about key differences between various local mammals and their unique adaptations, students explore their woodland habitat and analyze data from camera traps to see what kinds of mammalian visitors call Wave Hill home.

Walk Through Time
Discover New York as the ancestral homeland of indigenous peoples. Through hands-on artifact exploration and storytelling, students grow their empathy for both First Nation people and green spaces in NYC. This lesson culminates in a community art project that connects themes of sustainable land use, displacement and restoration.

Pollination Pals
Only offered April–June
Visit Wave Hill’s gardens and beehives to discover the partnerships between plants and their pollinators. Students observe honeybee specimens and live pollinators at work, and then explore the gardens to find flowers that attract different pollinators. As a culminating activity, students create a watercolor painting based on the flowers and pollinators they’ve seen.

Visualizing Nature
Experience dynamic works by contemporary artists on exhibit in Glyndor Gallery and natural wonders in the gardens and woodlands. Explore the connections between environment and community through an interactive class art project. Students develop observational and descriptive-language skills as they interact with Wave Hill’s inspiring galleries and gardens.
People and the Palisades: 
A Geological Journey
How did our landscape come to be the way it is, and what role do people play within it? Explore the origins of the Palisades and other local natural features in geological time, learn about the dynamic processes that formed them, and discover their uses. In this interdisciplinary program combining geology and social studies, students apply what they learn in an engaging dramatization of the historic effort to preserve the Palisades.

Woodland Ecology
Learn about woodland ecology and the dynamic forces that keep a woodland ecosystem healthy, such as succession, decomposition and regeneration. Explore how ecologists and naturalists collect and analyze data in order to understand how ecosystems change over time. Students explore Wave Hill’s woodlands, and collect and analyze data to help us understand the health of the ecosystem.

Drawn to Nature
In this program for budding artists and naturalists, students create simple journals and use them to look closely at the natural world. Through art and writing exercises, students develop their observational and descriptive language skills as they connect with Wave Hill’s inspiring gardens and woodlands.

Guided programs are aligned with grade-specific NGSS learning goals and standards. As such, curriculum and activities differ for middle and high school.

Self-Guided Nature Walk
Grades: K through 12
Guide your class on an independent exploration of Wave Hill’s gardens and grounds.
Pre-registration is required.
Fee: $40 per class; 20% discount for Title 1 Schools.
ART, COMMUNITY AND ENVIRONMENTAL STEWARDS (ACES)
This year-long, paid internship invites young people ages 15 to 20 to explore the connections between community engagement and nature-informed arts education. Interns work to foster connections to land and culture with Family Art Project participants, as they address their own histories, experiences and legacies as young people committed to effecting social and environmental change. The internship runs from July 1 through June 30 of the following year, with the option to continue for a second year in a more senior role.

FOREST PROJECT
For more than three decades, Wave Hill has offered this paid summer internship program for high school students, giving them an opportunity to gain hands-on field experience as they learn about forest ecology and restoration. Forest Project interns work together to build woodland paths, remove invasive plant species, shore up erosion controls and help restore disturbed woodlands to a more balanced state.

WOODLAND ECOLOGY RESEARCH MENTORSHIP (WERM)
Wave Hill’s 14-month WERM program provides an opportunity for motivated New York City high school students to conduct field research with working scientists. During the first summer, students participate in two academic courses and collect ecological data. Throughout the academic year, they learn additional research methods and science-communication skills while working with field scientists, restoration specialists and Wave Hill staff. Students are then paired with a scientist, under whose mentorship they design and complete an authentic research project.

Learn more about our internship programs at wavehill.org/education/internships/.
Professional Learning

Wave Hill provides a variety of hands-on, engaging professional learning opportunities, including day-long workshops and custom programs for schools and other groups. Participants learn innovative and effective ways to connect the natural world to classroom learning, explore multiple entry points for different types of learners and develop an understanding of current research behind pedagogical approaches and learning theories.

Continuing Teacher and Leader Education (CTLE) credits through the New York State Education Department (NYSED) are available for participants who successfully complete professional learning programs at Wave Hill.

CUSTOM PROGRAMS
Wave Hill offers workshops and multi-day learning opportunities for schools and other groups. Administrators can select from a variety of onsite programs, including those that focus on interactive nature exploration (K–6), nature-based art for elementary science instruction (K–6), the interplay between humans and our environment (K–12), and ecological restoration and research (6–12). Custom programs and trainings at your site are also available. Call to schedule a program for your group.

PROFESSIONAL DEVELOPMENT DAY EVENTS
Dates: Election Day, Tuesday, November 5, 2019; Chancellor’s Day, Thursday, June 4, 2020
Fees: $65 per person; 20% discount for teachers in Title 1 schools
Pre-registration required please call 718.549.3200 x237 to register

Our team of seasoned educators welcomes you to Wave Hill, where you will be immersed in a day of activities and discussion on learning and teaching. Learn ways to use the grounds of Wave Hill, and other natural areas, as an extension of the classroom. Explore strategies for developing authentic and effective practices for teaching. Develop new skills and knowledge in content and pedagogy.

The day begins with light refreshments, an exploration of Wave Hill’s grounds and activities and discussions on learning and teaching. In the afternoon, participants choose from multiple workshops that take their learning deeper into a specific content area and/or pedagogical approach. Each offering incorporates multiple modalities, such as field observations and object explorations, to engage and nurture critical thinking skills in all learners.

Find information about Election Day and Chancellor’s Day workshops at www.wavehill.org/education/professional-learning/.

Email schoolvisits@wavehill.org to receive email updates.
Registration
Programs book up quickly; we recommend reserving early in the school year. Advance registration and payment are required for all programs. **To register, please call 718.549.3200 x237.** Payment is due in full within three weeks of registration. An invoice will be provided detailing visit schedule and payment. Payment can be made by check, money order, credit card or purchase order, using the NYC Department of Education Vendor Code WAV024000. Please note that you are responsible for forwarding purchase-order information to your district.

**Class Size**
All classes are booked on a per-class basis. To assure the best possible educational experience for your class, we do not accept combined classes. There is a maximum of 30 students per class.

**Special Needs and Accessibility**
Please let us know your needs so that we can be prepared to present the best program possible. Fees will be adjusted to accommodate smaller-sized special-needs classes.

**Chaperones**
Fees include one adult chaperone per five students for Pre-K, and one adult chaperone per seven students for grades K and up. Please adhere to this ratio. Additional adults will be charged admission.

Cancellation Policy
Programs are mostly outdoors and take place rain or shine. In the event of particularly inclement weather or unsafe conditions, we will cancel the program and make every attempt to reschedule your visit. If you wish to cancel your visit, you must do so at least four weeks in advance in order to receive a full refund. After that time, no refunds will be given.

**Lunch**
We invite you to bring your own food and eat lunch at Wave Hill’s outdoor picnic area. For your convenience, there are bins to store your lunches while you are enjoying the program.

**Bus Directions and Parking**
For bus driving directions, please visit www.wavehill.org/visit/commercial-vehicle-directions/. Please note that buses are not allowed on the Henry Hudson Parkway. Buses cannot enter Wave Hill’s grounds. Passengers should be let off at Wave Hill’s Front Gate at Independence Avenue and W. 249th Street. Buses may park on W. 249th Street.
Often called one of the greatest living works of art, Wave Hill is a public garden and cultural center located on 28 acres in the Riverdale section of the Bronx, overlooking the Hudson River and the Palisades. Through its renowned gardens and programs in horticulture, education and the visual, performing and literary arts, Wave Hill fulfills its mission to explore human connections to the natural world.
Education programs for youth at Wave Hill are generously supported by the Barker Welfare Foundation; Cleveland H. Dodge Foundation; Con Edison; The Dorr Foundation; The New Yankee Stadium Community Benefits Fund; New York City Department of Cultural Affairs; The Pinkerton Foundation; Rose M. Badgeley Residuary Charitable Trust; Science Sandbox, an initiative of the Simons Foundation; Stavros Niarchos Foundation; and Sarah and Geoffrey Gund. Sustaining support for Wave Hill’s Educational Programming is provided by the Sally and Gilbert Kerlin Endowment Fund at Wave Hill for Environmental Science and Nature Education.

The buildings and grounds of Wave Hill are owned by the City of New York. Wave Hill’s operations are made possible in part by public funds provided through the New York City Department of Cultural Affairs; the Zoos, Botanical Gardens and Aquariums Grant Program administered by the New York State Office of Parks, Recreation and Historic Preservation; the National Endowment for the Arts; the New York State Department of Environmental Conservation; and New York State Council on the Arts with the support of Governor Andrew M. Cuomo and the New York State Legislature.

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