



green city program

k-12 field experiences at coral gables museum

ABOUT GREEN CITY PROGRAM:

Green City Program – Engaging, inspiring and empowering our youth for a sustainable future.

Green City teaches K-12 students about environmentally sustainable design as it pertains to architecture and urban planning in South Florida and beyond. The Coral Gables Museum’s exhibits and urban location provide prime opportunities to explore green topics in the civic arts - from native plants and eco-friendly building materials to public transportation and sea level rise. Each field experience will include a city or exhibit tour, group discussion and design activity.

The Green City program **mission** is to:

- Heighten environmental consciousness in the minds of children.
- Introduce the civic arts disciplines of architecture, landscape architecture, design, urban planning as well as historic and environmental preservation and sustainable development.
- Help students understand the complex relationship between the built and natural environment.
- Explain how sustainable design can be a solution to worldwide environmental threats.
- Empower students to affect positive change in their homes, communities and world.

The Green City program **vision** is to create a generation of environmentally conscientious citizens, leaders and civic arts professionals.

Thank you to our curriculum consultants:

Carmen Guerrero, Architect and Professor, University of Miami School of Architecture

Jaime Correa, Architect and Professor, University of Miami School of Architecture

David Rifkind, Architect and Professor, Florida International University School of Architecture

Kiki Mutis, Environmental Education Specialist and Community Outreach Coordinator, Fairchild Tropical Botanic Garden

To schedule a program for your class, please complete the Tour Request Form, and submit your request to Dr. Lili Dominguez at education@coralgablesmuseum.org or 305.603.8067.



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HOW TO REGISTER:

1. Read the “**Green City**” curriculum guide. Then, choose the theme that best suits your class:

- ❖ Living Green Today (K - 5)
- ❖ Designing Sustainable Cities (3 -12)
- ❖ This Old House (K -12)
- ❖ Local Architecture and Urban Design (4 - 12)

2. Complete the **Tour Request Form**.

3. Submit your request education@coralgablesmuseum.org or 305.603.8067.



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CURRICULUM GUIDE:

Theme: Living Green Today

Grades: K-5

Description: Students first learn about how their actions can positively or negatively affect their environment, then consider: What can I do at home/school to live green? How can I conserve water, energy and our natural resources? How can I improve air quality? How can I reuse/reduce/recycle to minimize waste? How can I apply "green" living to my life?

Activities:

- Living Green Today Presentation & Pledge (40 min.)
- Recycling Relay Race (10 min.)
- Recyclables Art Activity (40 min.)

Duration: 1.5 hr.

Site: Coral Gables Museum or School

Fee: Museum \$10 per student, group size: 20 - 50
School \$200, group size: 20 - 50



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Theme: Designing Sustainable Cities

Grades: 3-12

Description: Students will identify and discuss elements of a city; public spaces, dwellings, commercial buildings, schools, parks, sidewalks, landscaping, streetscapes, transportation systems (trolleys, bike paths). A city is shaped by both small and large-scale elements. How can these elements contribute to sustainability? City design and planning is a collaborative process that includes input from architects, urban designers, government officials, landscape architects, environmentalists and engineers. How is Coral Gables sustainable? How does it compare to my neighborhood in terms of being green? How can these neighborhoods improve?

Activities:

- Green City Walking Tour (45 min.)
- Create a Green Community Interactive Presentation/Activity (45 min.)
- Art activity (30 min.):
 - Green Streetscape Design, grades 3-5
 - Design a Green City Map. Individual urban planning activity. Consider sustainable components, grades 6-12

Duration: 2 hours

Site: Coral Gables Museum and City Tour

Fee: \$10 per student, group size: 20 - 50



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Theme: This Old House

Grades: K-12

Description: Students learn how historic preservation, an important architectural specialization and career track, can be green. This program explores the historic building that housed the first Police and Fire Station of Coral Gables - now repurposed as the Coral Gables Museum. Topics include: Leadership in Energy and Environmental Design (LEED) certification, identifying eco-friendly building materials, and adapting existing buildings to be more energy efficient.

In partnership with the Coral Gables Police and Fire Departments, students will also visit the *new* Stations for a behind-the-scenes tour of operations today. This program allows students to better understand the critical importance of these departments to public safety and the role of civic heroes in our community.

Activities:

- Introduction by Museum staff about historic preservation and LEED (10 min.)
- Tour of Coral Gables Museum highlighting LEED initiatives led by Museum staff (30 min.)
- Tour of the new Coral Gables Police and Fire Stations (90 min.)

Duration: 2 hours

Site: Coral Gables Museum & new Police and Fire Station

Fee: \$10 per student, group size: 20 – 50

Note* Police & Fire Tours only available Tuesday-Thursday.

Please provide at least three weeks advanced notice to avoid scheduling conflicts with the Police and Fire Department.



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Theme: Local Architecture and Urban Design

Grades: 4-12

Description: Students discover the history of Coral Gables, city founder George Merrick's translation of Mediterranean architecture, and contemporary local issues in downtown development and urban design. Students evaluate the current state of the City of Coral Gables in terms of Green Living and Green Design and the current development initiatives.

Activities:

- Exhibit Tour: "Creating the Dream: George Merrick and His Vision for Coral Gables" (45 min.)
- Downtown Walking Tour (45 min.)
- Art Activity: Observational drawing and designing in sketchbooks (completed throughout the entire tour)

Duration: 2 hours

Site: Coral Gables Museum and City Tour

Fee: \$10 per student, group size: 20 - 50



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Florida State Standards & NGSS Curricular Alignment

Living Green Today (K-5)

Strand SSC.2: Civics and Government

Strand LAFS.SL: Standards for Speaking and Listening

Visual Literacy: Big Idea: VA.C: Critical Thinking and Reflection

VA.S: Skills, Techniques, and Processes

Body of Knowledge: The Nature of Science

- Big Idea 1: The Practice of Science
- Big Idea 4: Science and Society

Designing Sustainable Cities (3-12)

Strand SSC: Civics and Government

Strand LAFS.SL: Standards for Speaking and Listening

Visual Literacy: Big Idea: VA.C: Critical Thinking and Reflection

VA.S: Skills, Techniques, and Processes

Body of Knowledge: The Nature of Science

- Big Idea 1: The Practice of Science
- Big Idea 4: Science and Society

Body of Knowledge: Life Science

- Big Idea 17: Interdependence

Science: SC.3.N.3.2: Recognize that scientists use models to help understand and explain how things work.

This Old House (K-12)

Strand SSC.2: Civics and Government

Strand LAFS.SL: Standards for Speaking and Listening

Visual Literacy: Big Idea: VA.C: Critical Thinking and Reflection

VA.S: Skills, Techniques, and Processes

Body of Knowledge: The Nature of Science

- Big Idea 4: Science and Society



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Local Architecture and Urban Design (6-12)

Strand SSC.2: Civics and Government

Strand LAFS.SL: Standards for Speaking and Listening

Visual Literacy: Big Idea: VA.C: Critical Thinking and Reflection

VA.H: Historical and Global Connections

VA.O: Organizational Structure

VA.S: Skills, Techniques, and Processes

Body of Knowledge: The Nature of Science

- Big Idea 4: Science and Society

