

The image features a background of a city skyline with several tall, modern glass skyscrapers under a clear blue sky. In the foreground, there is a dense line of green trees. Below the trees, a large array of blue solar panels is visible, arranged in a grid pattern. The University of Miami logo, a stylized 'U' in orange and green, is positioned in the upper right corner. The text 'UNIVERSITY OF MIAMI' is written in green and orange above the logo.

UNIVERSITY  
OF MIAMI



*Master of Professional Science in*  
URBAN SUSTAINABILITY  
& RESILIENCE

# THE FRONT LINE OF THE FUTURE

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## **THE UNIVERSITY OF MIAMI'S MASTER OF PROFESSIONAL SCIENCE IN URBAN SUSTAINABILITY AND RESILIENCE**

is designed for students interested in acquiring the knowledge skills and hands-on practical experience necessary to contribute to the solutions of some of the most pressing urban challenges. Studying challenges caused or accelerated by global warming such as health, housing, crime, environmental protection, and adaptation to climate change and sea-level rise, students will master the most recent tools and approaches to make cities more sustainable and resilient.



# MPS

# Curriculum

There are two tracks available:

**Sustainability:** offered through the College of Arts & Sciences' Department of Geography & Sustainable Development

**Resilience:** offered through the School of Architecture

## Course Topics

- Housing, Infrastructure, and Transportation
- Resilient Community Design
- Sustainable Cities
- Urban Management
- Historic Preservation
- Tropical Architecture
- Climate Change and Public Health
- Sustainable Food Systems
- Real Estate Development
- Spatial Data Analysis

## Capstone

Students may complete a research project, design studio, or an internship.



12

CORE  
CREDITS

+

12

TRACK  
CREDITS

+

6

CAPSTONE  
CREDITS

36

CREDITS



# The Climate Crisis Calls for Action

Around 68% of the global population will live in urban areas by 2050, and the impending global climate and other global crises will have profound urban and societal consequences. Therefore, cities will increasingly need professionals adept at combining concepts and methods from different disciplines to design policies and practices that allow individuals, communities, institutions, businesses, and various intra- and inter-urban networks to cultivate sustainability, as well as build resilience to chronic stressors, acute shocks, and other disruptions.

If you are forward-thinking with a passion for environmental well-being, we encourage you to consider this degree program. Miami is a global coastal city and one of the worlds' best living laboratories to study urban sustainability and resilience in real-time. We invite you to connect with us, visit our campus, and let us provide the knowledge you will need to launch your career.



“The interdisciplinary Master of Professional Science in Urban Sustainability & Resilience program is a novel degree to create individuals prepared to tackle the

challenge of climate change in cities. The experience has been unique and absolutely transformative, allowing exposure to the most knowledgeable experts in the field.”

**PAULA CHRISTINA VIALA, MPS '21**





Paula and her classmates participated in a community adaptation project called Envision Resilience Nantucket Challenge, where they reimagined how a small island off Massachusetts could meet the challenges of preservation, climate change, and sea-level rise. Although Nantucket is 1,500 miles away from Miami, sea-level rise is a threat that both places share. Their master plan design included retreating buildings from low-lying areas, new buildings with a higher design elevation, introducing natural defense systems and recommending policy changes. Their proposal included a conversion of the downtown piers into “floating docks” inspired by Miami’s Stiltsville.

## GRADUATE CERTIFICATES

MPS students have the opportunity to earn additional credentials to strengthen their professional portfolio. We offer a **Certificate in Geospatial Technology** for students who seek advanced training in Geographic Information Systems (ArcGIS). Additionally, the **Certificate in Security Management** is ideal for students who may find themselves in leadership positions where advanced preparation in emergency management and disaster mitigation would be required. For students interested in building, urban design, and real estate, the School of Architecture offers a **Certificate in Sustainable and Resilient Design**.





## FINANCIAL ASSISTANCE



The MPS program has a limited number of tuition waivers available to students who apply by the waiver deadline. Waivers are deducted off the total tuition cost and are allocated based on the demands and size of the incoming class.



**NO GRE  
REQUIRED**

## INTERNATIONAL STUDENTS



The MPS curriculum leverages the knowledge, skills and hands-on practical engagement necessary for students working toward contributing to the urban challenges confronting cities on the front lines of climate change. The degree is also STEM-designated which allows international students to apply for a STEM-OPT Extension of 24 months.



**STEM-DESIGNATED  
PROGRAM**



## INDUSTRY OUTLOOK

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Employment for individuals with specific training in the areas of sustainability and resilience is expected to grow 13% in the next 10 years with the required entry-level being a master's degree.

### Median Incomes

- >> Urban Planner: \$73,050
- >> Sustainability Compliance Officer: \$60,740
- >> Conservation Scientist: \$61,100
- >> Environmental Scientist and Specialist: \$63,570
- >> Soil and Plant Scientist: \$58,740
- >> Environmental Engineer: \$77,240
- >> Natural Science Manager: \$114,770

### Internships

Internships are available through a variety of municipal and nation-wide organizations, including:

- City of Coral Gables
- City of Miami
- Miami-Dade County
- Environmental Coalition of Miami
- Fairchild Tropical Gardens
- U.S. Fish and Wildlife Services
- Knight Foundation
- U.S. Green Building Council
- Environmental Resources Management

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