

M.P.S. IN URBAN SUSTAINABILITY AND RESILIENCE

Overview

The Master of Professional Science degree (MPS) in Urban Sustainability and Resilience is an interdisciplinary STEM-designated 30-credit program offered jointly between the College of Arts & Sciences' Department of Geography and Sustainable Development, and the School of Architecture. The 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.

Admission Requirements

- Online Application
- Application Fee
- A personal statement of academic and professional goals.
- Three current letters of recommendation.
- A completed Bachelor's degree in an appropriate field from a regionally accredited institution.
- A minimum overall undergraduate grade point average of 3.0 (on a 4.0 scale).
- Official transcripts from each post-secondary institution attended. Official transcripts in languages other than English must also be submitted with a certified English translation.
- Resume
- A score of at least 80 on the TOEFL or 6.5 on the IELTS for international students. Students from countries whose primary language is English are not required to take this exam.
- GRE scores are optional per University Policy.

Curriculum Requirements

Code	Title	Credit Hours
Core Courses		
ARC 621	Housing, Infrastructure and Transportation	3
GEG 620	Sustainable Cities	3
ARC 679	An Introduction to Resilient Building and Community Design	3
GEG 623	Seminar in Urban Management	3
ARC 694	Geographic Information Systems in Urban Design	3
GEG 659	Resilience Economics	3
GEG 665 or ARC 685	Land Use Planning Special Problems	3
GEG 616 or ARC 685	Urban Analytics Geovisualization Special Problems	3
Practicum or Design Studio		3
ARC 643	Case Studies in Sustainability and Resilience Practices and Methods	
ARC 609	Architecture Design	
ARC 680	Professional Advancement, Internship + Research (PAIR)	
GEG 625	Advanced Independent Study in Geography I	
GEG 630	Practicum in Sustainability	
GEG 635	Internship in Geography	
Elective		3
With approval from their advisor, students may choose any 600-level elective at the University of Miami.		
Total Credit Hours		30

Sample Plan of Study (1.5 Year Full-Time)

Year One		Credit Hours
Fall		
GEG 620	Sustainable Cities	3
ARC 621	Housing, Infrastructure and Transportation	3
ARC 694	Geographic Information Systems in Urban Design	3
GEG 665 or ARC 685	Land Use Planning or Special Problems	3
Credit Hours		12
Spring		
GEG 623	Seminar in Urban Management	3
ARC 679	An Introduction to Resilient Building and Community Design	3
GEG 659	Resilience Economics	3
GEG 616 or ARC 685	Urban Analytics Geovisualization or Special Problems	3
Credit Hours		12
Year Two		
Fall		
Practicum, Design Studio or Study Abroad		6
Credit Hours		6
Total Credit Hours		30

Mission

This interdisciplinary MPS in Urban Sustainability and Resilience program aims to provide the knowledge, skills and hands-on practical engagement necessary for students working toward contributing to the urban challenges of the 21st century.

Goals

- Focusing on how the stressors and shocks of a changing climate and sea-level rise will impact the urban realm in areas such as health, housing, and crime, students will gain an understanding of the spatial and temporal transitions involved in pathways toward urban sustainability and resilience
- Students will gain skills in methodology, including Geographic Information Systems (GIS), urban design, remote sensing, data visualization, and qualitative or quantitative methods. The knowledge students acquire can contribute to future policies and programs that lead to more sustainable urban development pathways.

Student Learning Outcomes

- Students will demonstrate a comprehensive understanding of the critical concepts, frameworks, and theories relevant to sustainability and resilience in urban environments.
- Students will use advanced methods to assess, measure, and track urban sustainability and resilience across time and space.
- Students will engage with various sectors to identify and solve sustainability and resilience issues in urban areas using participatory approaches.
- Students will develop innovative solutions to urban problems by translating interdisciplinary research into urban sustainability and resilience policies and programs.