

CERTIFICATE IN SUSTAINABLE & RESILIENT DESIGN

Certificate in Sustainable and Resilient Design

Environmental impacts of building practices, climate change, and rising sea levels are changing the landscape of architecture as a profession. Architects play a central role in selecting material and technology strategies, as well as developing robust adaptation strategies by addressing material impacts and climate stressors in their designs. Research, innovation, and community outreach are central and connected aspects of sustainable and resilient building practices. South Florida is ground zero for issues of coastal resiliency in particular. SoA has developed a coastal resiliency curriculum that capitalizes on civic and scholarly partnerships and aims to better familiarize students with these and other inter-related design, planning, regulatory issues, and the responding strategies under development. SoA faculty have been awarded significant research grants by the National Endowment for the Arts, the National Science Foundation, the W. K. Kellogg Foundation, and the Knight Foundation, resulting in the publication of related findings that aim to foster solutions.

Certificate requires a total of 15 credits of core courses and related electives.

***This program is not eligible for federal or state financial aid. Contact the Office of Student Financial Assistance and Employment (<https://finaid.miami.edu/>) for further assistance.**

Admission Requirements

Applications start on November 1 until June 1 for entry in Fall and October 1 until December 1 for entry in Spring. Admission to the Graduate Certificate Program is subject to the rules, regulations and procedures of the Graduate School (<http://grad.miami.edu/>) as stipulated in the University Graduate Bulletin (<http://bulletin.miami.edu/>). It is the responsibility of each student to understand these requirements and to ensure that they are met.

Please visit our website at www.arc.miami.edu (<https://grad.arc.miami.edu/>) and refer to our latest admission and portfolio requirements. (<https://www.arc.miami.edu/admissions/admission-requirements/graduate-requirements/>)

Curriculum Requirements

Certificate in Sustainable and Resilient Design

| Code | Title | Credit Hours |
|---------------------------|---|--------------|
| ARC 608 | Integrated Architecture Design Studio (Sustainable & Resilient Design focus) or ARC 609 | 6 |
| ARC 679 | An Introduction to Resilient Building and Community Design | 3 |
| ARC 685 | Special Problems (Sustainable Design in Context) | 3 |
| Electives | | 3 |
| Total Credit Hours | | 15 |

Electives

| Code | Title | Credit Hours |
|--|--|--------------|
| Electives can be selected from the following (choose one, depending on semester course offerings)) | | |
| ARC 639 | Adaptation to Climate Change | 3 |
| ARC 640 | Tropical Architecture | 3 |
| ARC 684 | Special Problems (RAD LAB UM) | 3 |
| ARC 694 | Geographic Information Systems in Urban Design | 3 |
| EPH 623 | Determinants of Health and Health Disparities Across the Life Course | 3 |

Other Elective courses by approval

Student Learning Outcomes

- Students will demonstrate the ability to effectively use basic architectural and environmental principles in design.
- Students will demonstrate the ability to raise clear and precise questions, use abstract ideas to interpret information, consider diverse points of view, reach well-reasoned conclusions, and test alternative outcomes against relevant criteria and standards.
- Students will demonstrate the ability to read, write, speak and listen effectively.
- Students will demonstrate the ability to use appropriate representational media, such as traditional graphic and digital technology skills, to convey essential formal elements at each stage of the programming and design process.