

# MASTER OF SCIENCE IN ARCHITECTURE

## Overview

The Master of Science in Architecture is a three- or four-semester program that allows enrollment in six different tracks (with a minimum curricular requirement of 30-36 credits). On the background of interdisciplinarity the students of the six tracks will oscillate between joint courses for all MSA students, track-specific courses and courses that are shared with students from other programs and departments. Each track will be led by a recognized leader in the field, supported by the joint resources of the MSA umbrella. The program acts as an accelerator and cross-pollinator, in which the confrontation with contemporary problems and themes takes priority over disciplinary silos. In offering an open academic environment to investigate design strategies in relation to the most pressing issues of the 21<sup>st</sup> century, the MSA program provides a contemporary skills and knowledge base for professional application, as much as future advanced doctoral study. The degree is STEM-designated which allows international students to apply for OPT for up to 36 months after graduation.

## Admissions

Applications are generally considered for entrance in the Fall semester. Courses are sequenced to deliver a cohesive educational experience and students are expected to follow the established course sequence for their program. Students entering the program in Spring or Summer may not be eligible to enter the course sequence at that time but may take electives or other required courses. This will necessarily extend the duration of the degree program.

Applications are reviewed by a committee of various faculty ranks and staff who evaluate potential applicants and submit recommendations to the Program Director. Committee members must submit a survey with comments and notes on each student application for program record keeping. Requirements/Recommendations for additional coursework will be contingent on the evaluation of the student's prior work at the time of admission.

Selected teaching faculty reviews transcripts, grades, and syllabi to determine equivalent course content from non-accredited degrees that may be replaced using form "Equivalent Course work" after matriculation and prior to the start of a semester.

Admission to the Graduate Program is subject to the rules, regulations and procedures of the Graduate School (<https://www.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.

The minimum requirement for applications to all Masters' Degrees programs is a 3.0 GPA (cumulative grade point average).

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

### **Additional requirements for International Students:**

1. TOEFL of min. 80 or IELTS of min. 6.5 (please use University code 5815).
2. Graduate international transcripts will be reviewed by one of the approved Evaluation Services:
3. Josef Silny & Associates, Inc., International Education Associates ([https://www.arc.miami.edu/\\_assets/pdf/universityofMIAMI-graduate.pdf](https://www.arc.miami.edu/_assets/pdf/universityofMIAMI-graduate.pdf)), ([www.jsilny.org](http://www.jsilny.org)) (<http://www.jsilny.org/>)
4. Educational Credential Evaluators, Inc. (<http://www.ece.org/>) ([www.ece.org](http://www.ece.org)) (<http://www.ece.org/>)
5. World Education Services (<http://www.wes.org/>) ([www.wes.org](http://www.wes.org)) (<http://www.wes.org/>)

For application review purposes, English translated official transcripts are sufficient. Once the applicant gets admitted, the international evaluation report is required.

## Curriculum Requirements

### Master of Science in Architecture: Digital Fabrication & Technology

Non-thesis Option 30 credits, Thesis Option 36 credits

Code	Title	Credit Hours
ARC 609	Architecture Design <small>Research Studio or PAIR</small>	6
ARC 610	Architecture Design Degree Project	6
ARC 629	Research in Design-Methods and Procedures	3
ARC 656	Parametric Tectonics	3
ARC 657	Design and Fabrication Techniques	3
ARC 681	Special Problems <small>Emergent Methods</small>	3
ARC 682	Special Problems <small>Independent Study</small>	3
ARC 699	Directed Research	3

Thesis Option		
ARC 810	Master's Thesis <sup>Optional</sup>	6
<b>Total Credit Hours</b>		<b>30-36</b>

## Master of Science in Architecture: Hospitality Design

Non-thesis Option 30 credits, Thesis Option 36 credits

Code	Title	Credit Hours
ARC 608	Integrated Architecture Design Studio <sup>Hospitality</sup>	6
ARC 609	Architecture Design <sup>Research Studio or PAIR</sup>	6
ARC 610	Architecture Design Degree Project	6
ARC 629	Research in Design-Methods and Procedures (or other approved Research course)	3
ARC 640	Tropical Architecture	3
ARC 664	The Hotel: Past, Present, Future	3
ARC 699	Directed Research	3
Thesis Option		
ARC 810	Master's Thesis <sup>Optional</sup>	6
<b>Total Credit Hours</b>		<b>30-36</b>

## Master of Science in Architecture: Healthcare Design

Non-thesis Option 30 credits, Thesis Option 36 credits

Code	Title	Credit Hours
ARC 608	Integrated Architecture Design Studio <sup>Healthcare</sup>	6
ARC 609	Architecture Design <sup>Research Studio or PAIR</sup>	6
ARC 610	Architecture Design Degree Project	6
ARC 629	Research in Design-Methods and Procedures	3
ARC 681	Special Problems <sup>Healthcare Modules</sup>	3
ARC 699	Directed Research	3
Elective		3
Thesis Option		
ARC 810	Master's Thesis <sup>Optional</sup>	6
<b>Total Credit Hours</b>		<b>30-36</b>

## Master of Science in Architecture: Classical & Traditional Design

Non-thesis Option 30 credits, Thesis Option 36 credits

Code	Title	Credit Hours
ARC 608	Integrated Architecture Design Studio <sup>Classical</sup>	6
ARC 609	Architecture Design <sup>Research Studio or PAIR</sup>	6
ARC 610	Architecture Design Degree Project <sup>Rome/Miami</sup>	6
ARC 629	Research in Design-Methods and Procedures	3
ARC 674	Renaissance Architecture	3
ARC 681	Special Problems <sup>Roman Palimpsest - Architecture &amp; Construction</sup>	3
ARC 699	Directed Research	3
Thesis Option		
ARC 810	Master's Thesis <sup>Optional</sup>	6
<b>Total Credit Hours</b>		<b>30-36</b>

## Master of Science in Architecture: Historic Preservation & Adaptive Reuse

Code	Title	Credit Hours
ARC 608	Integrated Architecture Design Studio <sup>Preservation</sup>	6
ARC 609	Architecture Design <sup>Research Studio or PAIR</sup>	3

ARC 618	Documentation of Historic Architecture	3
ARC 628	Historic Preservation	3
ARC 629	Research in Design-Methods and Procedures	3
ARC 681	Special Problems <small>Materials and Preservation Techniques</small>	3
ARC 682	Special Problems <small>Concepts of International Heritage</small>	3
ARC 683	Special Problems <small>Roman Palimpsest - Architecture &amp; Construction</small>	3
ARC 810	Master's Thesis	6
Research Elective		3
<b>Total Credit Hours</b>		<b>36</b>

## Master of Science in Architecture: Contemporary Theory of the Built Environment

Code	Title	Credit Hours
ARC 609	Architecture Design <small>Research Studio or PAIR</small>	3
ARC 620	Responsible Architecture	3
ARC 622	Urban Design Theory and History of the Modern City <small>or other Elective</small>	3
ARC 629	Research in Design-Methods and Procedures	3
ARC 681	Special Problems <small>Architectural Discourse</small>	3
ARC 682	Special Problems <small>Contemporary Architectural Theory</small>	3
ARC 683	Special Problems <small>Independent Study/Field Research</small>	3
ARC 699	Directed Research	3
ARC 810	Master's Thesis	6
Theory Elective		3
Elective		3
<b>Total Credit Hours</b>		<b>36</b>

All Electives as per semester schedule offerings and with approval.

## Suggested Plan of Study

### Master of Science in Architecture: Digital Fabrication & Technology

Non-thesis Option 30 credits, Thesis Option 36 credits

Fall		Credit Hours
ARC 629	Research in Design-Methods and Procedures	3
ARC 657	Design and Fabrication Techniques	3
ARC 656	Parametric Tectonics	3
ARC 699	Directed Research	3
<b>Credit Hours</b>		<b>12</b>
Spring		Credit Hours
ARC 609	Architecture Design <small>Research Studio or PAIR</small>	6
ARC 681	Special Problems <small>Emergent Methods</small>	3
ARC 682	Special Problems <small>Independent Study</small>	3
<b>Credit Hours</b>		<b>12</b>
Summer		Credit Hours
ARC 610	Architecture Design Degree Project	6
<b>Credit Hours</b>		<b>6</b>
<b>Total Credit Hours</b>		<b>30</b>

Fall I		Credit Hours
ARC 810	Master's Thesis <small>Optional</small>	6
<b>Credit Hours</b>		<b>6</b>
<b>Total Credit Hours</b>		<b>6</b>

## Master of Science in Architecture: Hospitality Design

Non-thesis Option 30 credits, Thesis Option 36 credits

Fall		Credit Hours
ARC 608	Integrated Architecture Design Studio <sup>Hospitality</sup>	6
ARC 629	Research in Design-Methods and Procedures ( )	3
ARC 664	The Hotel: Past, Present, Future	3
ARC 699	Directed Research	3
<b>Credit Hours</b>		<b>15</b>
Spring		
ARC 609	Architecture Design <sup>Research Studio or PAIR</sup>	6
ARC 640	Tropical Architecture	3
<b>Credit Hours</b>		<b>9</b>
Summer		
ARC 610	Architecture Design Degree Project	6
<b>Credit Hours</b>		<b>6</b>
<b>Total Credit Hours</b>		<b>30</b>

Fall I		Credit Hours
ARC 810	Master's Thesis	6
<b>Credit Hours</b>		<b>6</b>
<b>Total Credit Hours</b>		<b>6</b>

## Master of Science in Architecture: Healthcare Design

Non-thesis Option 30 credits, Thesis Option 36 credits

Fall		Credit Hours
ARC 608	Integrated Architecture Design Studio <sup>Healthcare</sup>	6
ARC 629	Research in Design-Methods and Procedures	3
ARC 699	Directed Research	3
<b>Credit Hours</b>		<b>12</b>
Spring		
ARC 609	Architecture Design <sup>Research Studio or PAIR</sup>	6
ARC 681	Special Problems <sup>Healthcare Modules</sup>	3
Elective		3
<b>Credit Hours</b>		<b>12</b>
Summer		
ARC 610	Architecture Design Degree Project	6
<b>Credit Hours</b>		<b>6</b>
<b>Total Credit Hours</b>		<b>30</b>

Fall I		Credit Hours
ARC 810	Master's Thesis <sup>Optional</sup>	6
<b>Credit Hours</b>		<b>6</b>
<b>Total Credit Hours</b>		<b>6</b>

## Master of Science in Architecture: Classical & Traditional Design

Non-thesis Option 30 credits, Thesis Option 36 credits

Fall		Credit Hours
ARC 608	Integrated Architecture Design Studio <sup>Classical</sup>	6
ARC 629	Research in Design-Methods and Procedures	3
ARC 699	Directed Research	3
<b>Credit Hours</b>		<b>12</b>

<b>Spring</b>			
ARC 609	Architecture Design	Research Studio or PAIR	6
ARC 674	Renaissance Architecture		3
<b>Credit Hours</b>			<b>9</b>
<b>Summer</b>			
ARC 610	Architecture Design Degree Project	Rome/Miami	6
ARC 681	Special Problems	Roman Palimpsest - Architecture & Construction	3
<b>Credit Hours</b>			<b>9</b>
<b>Total Credit Hours</b>			<b>30</b>

<b>Fall I</b>			<b>Credit Hours</b>
ARC 810	Master's Thesis	Optional	6
<b>Credit Hours</b>			<b>6</b>
<b>Total Credit Hours</b>			<b>6</b>

### Master of Science in Architecture: Historic Preservation & Adaptive Reuse

<b>Fall</b>			<b>Credit Hours</b>
ARC 608	Integrated Architecture Design Studio	Preservation	6
ARC 628	Historic Preservation		3
ARC 629	Research in Design-Methods and Procedures		3
ARC 681	Special Problems	Materials and Preservation Techniques	3
<b>Credit Hours</b>			<b>15</b>
<b>Spring</b>			
ARC 609	Architecture Design	Research Studio or PAIR	3
ARC 618	Documentation of Historic Architecture		3
ARC 682	Special Problems	Concepts of International Heritage	3
Research Elective			3
<b>Credit Hours</b>			<b>12</b>
<b>Summer</b>			
ARC 683	Special Problems	Roman Palimpsest - Architecture & Construction	3
<b>Credit Hours</b>			<b>3</b>
<b>Fall I</b>			
ARC 810	Master's Thesis		6
<b>Credit Hours</b>			<b>6</b>
<b>Total Credit Hours</b>			<b>36</b>

### Master of Science in Architecture: Contemporary Theory of the Built Environment

<b>Fall</b>			<b>Credit Hours</b>
ARC 620	Responsible Architecture		3
ARC 681	Special Problems	Architectural Discourse	3
ARC 629	Research in Design-Methods and Procedures		3
ARC 699	Directed Research		3
Theory Elective			3
<b>Credit Hours</b>			<b>15</b>
<b>Spring</b>			
ARC 609	Architecture Design	Research Studio or PAIR	3
ARC 622	Urban Design Theory and History of the Modern City	or other Elective	3
ARC 682	Special Problems	Contemporary Architectural Theory	3
Elective			3
<b>Credit Hours</b>			<b>12</b>

<b>Summer</b>		
ARC 683	Special Problems Independent Study/Field Research	3
	<b>Credit Hours</b>	<b>3</b>
<b>Fall I</b>		
ARC 810	Master's Thesis	6
	<b>Credit Hours</b>	<b>6</b>
	<b>Total Credit Hours</b>	<b>36</b>

All Electives as per semester schedule offerings and with approval.

## Goals

- To prepare students for professional leadership and lifelong learning in architecture, urbanism, and related fields.
- To preserve and develop knowledge for the profession through research and practice.
- To share knowledge locally and internationally.
- To promote building and community design goals of environmental responsibility, social equity, and economic sustainability.
- To bridge disciplinary silos within the professions of the built environment.
- To explicitly address issues of societal and environmental change.

## Student Learning Outcomes

- Students will demonstrate the ability to develop knowledge for the profession through research and practice.
- Students will demonstrate clear reasoning with organized presentation of evidence, assumptions, and conclusions.
- 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 not only deepen their knowledge in their selected field of specialization, but will be able to understand and communicate concepts that originate from other fields.
- Students will demonstrate the ability to read, write, speak and listen effectively.