ARCHITECTURE, MS

Contact

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Faculty

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Description

Design | Energy | Futures is a concentrated research + design program that leads to a post-professional Master of Science (MS) in Architecture degree. The program focuses on energy and the built environment with research + design projects ranging across many scales, from urban design to high performance buildings, from VR and computational simulation to building material research and product design, and across a range of disciplinary and practice areas. The Master of Science degree seeks theoretically or speculatively inclined architects and emerging scholars whose research can be applied to pressing contemporary problems and opportunities. This 30-credit course of study, completed in three semesters, admits a limited number of students whose areas of interest can be matched with the expertise and ongoing research of the program's faculty.

Students' first semester consists of a core design studio in the area of Design | Energy | Futures complemented by a seminar in architectural research methods and applications designed to support a student's preliminary investigations of an individual design/research project. The second semester includes elective coursework from both within the school of architecture and across campus, selected specifically to support a student's individual project, and an affiliated research seminar. And, in the culminating term, a student will complete their independent work within the collaborative framework of a directed research course.

Degree Awarded

This is a 30 credit program leading to a Master of Science in Architecture degree.

Prerequisite for Admission into the MS in Architecture Program

Applicants must elaborate on their current research skills and prior experience in the field in a brief essay, as well as provide a personal statement describing their goals for graduate study. Students accepted to the program will define their project more precisely in discussion with a faculty advisor in the months prior to enrollment. Instruction occurs in a variety of formal settings including self-directed studios, independent study, and graduate-level courses offered in the School of Architecture or other units of Syracuse University, where cross-disciplinary interaction and exchange are strongly supported and encouraged. The program concludes with a symposium in Syracuse, where students present the results of their design work and research.

The program is open to qualified students with a professional degree in architecture (BArch or MArch, or equivalent) or with demonstrable research skills and work in architecture or related fields. The completed application form must be accompanied by an official copy of prior academic transcripts, three letters of recommendation, a portfolio of academic and professional work, and a brief research proposal outlining clear intellectual interests and educational objectives and demonstrating preparedness for the demands of the program. GRE scores are highly recommended, but not required. TOEFL scores are required for all applicants whose native language is not English.

Student Learning Outcomes

1. 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
2. Apply contemporary design research tools and techniques for the purposes of visualization, assessment, and design
3. Explain, compare, and contrast architectural research methods applicable to the program's concentration area
4. Demonstrate the critical application of current and near-future concepts, trends, and standards for architecture through an applied design+research project
5. Select a topic area relevant to the program's concentration area and develop research questions within the concentration that form the foundation of an independent design+research thesis.
6. Select and apply learned architectural research methods appropriate to a design problem for an independent thesis
7. Document and communicate a design+research endeavor using discipline-specific modalities (professional and academic presentation formats including academic papers or posters, whitepapers and reports, competition submissions, etc.)

Degree Requirements

Students will complete 30 credit hours of course work. All master's students must present a final project to their committee members representing a culmination of what they have learned in their research.

Code	Title	Credits
Design Requirements		
ARC 707	Architectural Design	6
ARC 708	Architectural Design	6
Architectural Research		
ARC 770	Architectural Research (Students will take ARC 770 twice (6 credits total).)	6
Architecture Electives		
Select two of the following:		6
ARC 500	Selected Topics	
500-level selected topics approved by the MS Program Coordinator or Graduate Program Chair.		
ARC 511	Advanced Structural Resolution	
ARC 552	Politics of Public Space	
ARC 568	Real Estate Design and Development	
ARC 572	Advanced Computer Applications to Architecture	

ARC 575	Urban Housing - Building, Block, Street	
ARC 582	NYC Internship Experience	
ARC 583	Building Practice	
ARC 584	Furniture Fabrications	
ARC 600	Selected Topics	
ARC 623	Advanced Building Systems	
ARC 650	Architectural Research	
ARC 651	Language and Discourse in Architecture	
ARC 690	Independent Study	
ARC 698	Directed Research	
Electives		
Students work closely with the program coordinator, their advisor, and the graduate program chair to determine which electives they should take to contribute to and advance their research project.		6

Note

The Master of Science in Architecture is a “post-professional” degree, typically earned after completing a NAAB-accredited B.Arch. or M.Arch., and it alone does not qualify as a professional degree leading to eligibility for the Architectural Registration Exam or licensure in the USA.