

Architecture (Energy Perf/Climate Responsive Arch), MS

ARENERGYMS

ASU is not currently accepting applications for this program.

Are you interested in solving wicked problems in new ways? Are you fascinated with how sustainability, materials and human environments interact? Then you may find this program a good fit. Work with exceptional faculty, use advanced technology and address some of the world's most pressing challenges.

Program description

Degree awarded: MS Architecture (Energy Performance and Climate Responsive Architecture)

The MS program in architecture with a concentration in energy performance and climate-responsive architecture educates students to become experts in energy-efficient building design and energy technology.

Courses in this concentration establish a basic core knowledge of the principles of the natural energies available at the building boundary due to climate and site; thermal and optic behavior of building materials and components; passive and low-energy architectural systems for heating, cooling and lighting; and appropriate integration with mechanical systems. Additional courses are available to support advanced study and research in a variety of related specialties.

At a glance

- **College/School:** [Herberger Institute for Design and the Arts](#)
- **Location:** [Tempe](#)

Degree requirements

30 credit hours and a thesis, or

30 credit hours including the required applied project course (ATE 593)

Required Core (21 credit hours)

Electives (3 or 6 credit hours)

Culminating Experience (3 or 6 credit hours)

ATE 593 Applied Project (3)

ATE 599 Thesis (6)

Additional Curriculum Information

The applied project option consists of six credit hours of electives and three credit hours of ATE 593. The thesis option consists of three credit hours of electives and six credit hours of ATE 599.

Students should see the academic unit for an approved course list.

Admission requirements

Applicants must fulfill the requirements of both the Graduate College and the Herberger Institute for Design and the Arts.

Applicants are eligible to apply to the program if they have earned a bachelor's or master's degree from a regionally accredited institution in one of the professions or fields of study outlined below:

- a five- or six-year National Architectural Accrediting Board-accredited professional degree in architecture (BArch or MArch)*
- a four-year Bachelor of Science in landscape architecture or a master's degree in landscape architecture, which must be granted by an institution that offers the Landscape Architectural Accreditation Board-accredited degree program in landscape architecture
- an engineering degree (BS or MS) with a background in building sustainability issues**
- a science degree (BS or MS) with a background in building sustainability issues

*Applicants should refer to the NAAB website for more information about the Bachelor of Architecture or Master of Architecture.

**Mechanical and civil engineering and construction majors are particularly suited for application to the BS or MS program in engineering.

Applicants must have a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") in the last 60 hours of their first bachelor's degree program, or a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") in an applicable master's degree program.

All applicants must submit:

1. graduate admission application and application fee
2. official transcripts
3. portfolio, or writing sample from applicants who have a science background
4. statement of intent
5. contact information for two references
6. proof of English proficiency

Additional Application Information

An applicant whose native language is not English must provide [proof of English proficiency](#) regardless of their current residency. The minimum score for admission to the program is 80 on the TOEFL iBT® taken in a testing center or an overall band score of 6.5 on the IELTS.

The portfolio or writing sample, statement of intent and contact information for three references must be submitted via SlideRoom. <https://asudesign.slideroom.com/#/Login>

Admission to the program is selective. Admission to the program cannot be deferred. Students must enroll in the semester for which they are admitted; otherwise, they need to go through the entire application process again during the year for which they are applying.

A personal interview is not required; however, a candidate wishing to visit the school is welcome and should make arrangements by contacting The Design School.

Applicants should see the program website for application deadlines and admission terms.

Tuition information

When it comes to paying for higher education, everyone's situation is different. Students can learn about [ASU tuition and financial aid](#) options to find out which will work best for them.

Program learning outcomes

Program learning outcomes identify what a student will learn or be able to do upon completion of their program. This program has the following program outcomes:

- Engage in scholarly inquiry involving building performance and energy modeling.
- Compose a research proposal that embodies methodologies suitable to the research questions identified.
- Formulate climate-responsive design solutions for diverse factors impacting the built environment through critical thinking, calculations, and evidence-based design research.

Career opportunities

Graduates of the Master of Science in architecture program often pursue the following careers:

- architect
- energy modeler
- sustainability consultant

Contact information

[The Design School](#) | CDN 162

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