

# Master of Science in Architectural Engineering

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## Civil, Environmental, and Architectural Engineering

Civil engineering is the oldest engineering program at KU. The first graduating class in 1873 included a civil engineer. Civil engineers design roads, water systems, bridges, dams, and other structures, providing nearly all the infrastructure needed by modern society. Civil engineers were the first engineers to address environmental issues and are the lead engineering discipline in treating water supplies to protect public health. In recognition of the significant issues concerning the environment, the department name was changed in 1992 to civil and environmental engineering.

The environmental and water resources engineering (EWRE) and environmental and water resources science (EWRS) graduate programs were created in 2019 by combining existing programs in environmental engineering and science and water resources engineering. These programs dated back to the founding of the Environmental Health Sciences program in 1961. Environmental and water resources engineers and scientists address the safety and supply of water, the interactions of water and the hydrological cycle with the environment, and the use of physical, chemical, and biological processes to solve environmental and water problems.

Architectural engineering combines study in architecture with engineering science and design courses in electrical, mechanical, construction, and structures to prepare students for building design projects of all kinds. Architectural engineering dates to 1913 at KU, and the first female graduate of the School of Engineering was an architectural engineering major. Architectural engineering merged with civil and environmental engineering in 2001 to form the the Department of Civil, Environmental, and Architectural Engineering (CEAE).

## Mission

CEAE's mission is to provide students with an outstanding engineering education and be a leader in research and service. This mission is supported by the following 3 goals:

1. Prepare students for productive engineering careers.
2. Maintain and grow strong research programs.
3. Serve the profession.

## Graduate Admission

The department admits for all semesters. Students may pursue degrees full or part time. An ABET-accredited baccalaureate degree in engineering is required for admission to the Ph.D. degree programs in civil engineering and environmental & water resources engineering; a baccalaureate degree in a closely related field is required for admission to the Ph.D. program in environmental & water resources science. Applicants are expected to have undergraduate grade-point averages of 3.0 or higher on a 4.0 scale for admission.

Graduate Record Examination (GRE) scores are required and are used in the evaluation process, but minimum scores for admission have not

been established. The GRE engineering and other subject examinations are not required. The Test of English as a Foreign Language is required for international applicants. Applicants should take the GRE and TOEFL examinations as early as possible to expedite the admission process.

Graduate applications should be submitted online (<http://graduate.ku.edu/>).

## APPLICATION DEADLINES

**Fall Admission:** December 1 (priority deadline). Applications received past the priority deadline are considered on the basis of rolling review, until two business days before the start of classes.

**Spring Admission:** September 1 (priority deadline). Applications received past the priority deadline are considered on the basis of rolling review, until two business days before the start of classes.

**Summer Admission:** December 1

The priority deadlines are for full consideration for fellowships, scholarships and research/teaching assistantships. Applications submitted after these deadlines will be considered for funding on a case-by-case basis.

## MINIMUM ENGLISH PROFICIENCY REQUIREMENTS

Visit the full English Proficiency Requirements for Admission to Graduate study at: <http://policy.ku.edu/graduate-studies/english-proficiency-international-students> (<http://policy.ku.edu/graduate-studies/english-proficiency-international-students/>).

International students and students who indicated English as a second language are required to show proof of English proficiency for admission purposes and must check-in at the Applied English Center (<https://aec.ku.edu/>) (AEC) upon arrival on campus for orientation. This process serves to confirm each student's level of English proficiency and determine whether English courses will be included as a requirement of the student's academic program. Note: Students who demonstrate English proficiency **at the waiver level** are not required to check in at the AEC (see eligibility requirements on the Graduate Studies website (<https://graduate.ku.edu/english-proficiency-requirements/>)).

## APPLICATION FEES

Domestic: \$65

International: \$85

## VISITING US

The graduate program staff is happy to work with all prospective students in determining the fit between the student and the program. We feel that visiting our campus in Lawrence is a very important step. In order to facilitate your visit to KU, there are two main options:

The first, and most preferred, option entails simply applying for admission to the program. All prospective students are welcome to attend our Graduate Open House in mid-October or mid-March. Eligible admitted students may be invited to participate in Campus Visit Days in February (prior to the fall semester of your intended matriculation). These organized visitation opportunities will allow you to gather a great deal of first-hand information which we hope will help you in making a final decision about whether to attend KU.

The second option is making arrangements to visit us on your own, outside of organized events. With early notification, we will do our best to work with you to provide information and schedule appointments with faculty when possible. Please contact us if you feel that this is the best option for you.

## CONTACT INFORMATION

Please contact the CEAE Graduate Program Coordinator at [gradceae@ku.edu](mailto:gradceae@ku.edu) or (785) 864-3826, to schedule a visit or with questions about the application process.

**The University of Kansas**  
**Department of Civil, Environmental, and Architectural Engineering**  
**Graduate Administrative Assistant**  
**Learned Hall**  
**1530 W. 15th St., Room 2150**  
**Lawrence, KS 66045**

## Architectural Engineering

Candidates for the Master of Science degrees have 3 options. **Option A** requires 30 credit hours including a thesis of 6 hours (6 to 10 hours for the environmental degrees) and a final oral examination including defense of the thesis. **Option B** requires 30 hours including a 3- or 4-hour special problem investigation in the specialization and a final oral examination. It does not require a thesis. **Option C** requires 30 credit hours of coursework. It does not require a thesis, special problem investigation, or final oral examination.

The M.S. degree in **architectural engineering** is intentionally flexible in its course requirements because graduate study in architectural engineering requires specialization in one of many areas of professional practice. Each student works with his or her committee to select appropriate graduate courses that support the research project and the student's career goals. Students can pursue specializations in, for example, building mechanical, energy, electrical, lighting, or structural systems, or construction engineering. Emerging or hybrid specializations such as sustainability, acoustics, or fire protection are also encouraged.

Courses for any of the M.S. degrees must be listed on a Plan of Study and approved by the student's major professor, graduate committee, and the department director of graduate studies. All graduate students must have an approved Plan of Study (<https://gradplan.engr.ku.edu/accounts/login/?next=/>) by the beginning of their second semester of study. No more than 9 hours of courses from other departments or more than 6 hours of courses numbered below 700 (of which only 3 hours may be within the department) may be applied toward any of the M.S. degrees without approval of the departmental graduate studies committee. No more than 4 hours of special-problem credit may be applied toward any of the master's degrees without approval of the department's graduate advisor.