

# Graduate Certificate in Water Resources

## Graduate Certificate Overview

The objective of the certificate program is to allow students to broaden and deepen their knowledge in this area of Water Resources, while learning the most up-to-date theory and techniques used in practice.

The certificate program offers an opportunity for engineering and science practitioners to enhance their skills in Water Resources without having to apply for and complete a Master's degree. The program consists of four courses (12 credit hours).

## Standard Admission Requirements for all Graduate Programs

- All applicants must meet the requirements outlined in the Admission to Graduate Study (<https://policy.ku.edu/graduate-studies/admission-to-graduate-study/>) policy.
- Bachelor's degree: A copy of official transcripts showing proof of a bachelor's degree (and any post-bachelor's coursework or degrees) from a regionally accredited institution, or a foreign university with equivalent bachelor's degree requirements is required.
- English proficiency: Proof of English proficiency (<https://gradapply.ku.edu/english-requirements/>) for non-native or non-native-like English speakers is required. There are two bands of English proficiency, including Admission and Full proficiency. For applicants to online programs, Full proficiency is required.

## Additional Graduate Program Admission Requirements

- A bachelor's degree in engineering with a GPA of 3.0 or better is required for admission to this graduate certificate program.
- Graduate courses taken for this certificate may be eligible to transfer for credit towards a graduate degree program.

A bachelor's degree in engineering with a GPA of 3.0 or better or a bachelor's degree in a science field with a GPA of 3.0 or better and completion of MATH 126 or equivalent is required for admission to this graduate certificate program.

Graduate courses taken for this certificate may be eligible to transfer for credit towards a graduate degree program.

Applicants must meet all admissions requirements for certificate-seeking graduate admission as defined by the University's policy on Admission to Graduate Study.

Four (4) courses from the selected list are required to complete the certificate.

Courses Satisfying Certificate Requirements:

Code	Title	Hours
CE 736	Environmental Monitoring and Field Methods	3
CE 751	Physical Hydrology	3
CE 752	Physical Hydrogeology	3
CE 753	Chemical and Microbial Hydrogeology	3

CE 754	Contaminant Transport	3
CE 755	Open Channel Flow	3
CE 756	Wetlands Hydrology and Introduction to Management	3
CE 757	Pipe-Flow Systems	3
CE 759	Water Quality Modeling	3
CE 760	Stochastic Hydrology	3
CE 775	Stormwater Treatment Systems Design	3
CE 776	Water Reuse	3
CE 857	Sediment Transport	3
CE 859	Erosion and Sedimentation	3

The completion requirements of the graduate certificate in Water Resources include: 1) the minimum grade for any course to be applied toward the certificate is a grade of B; and 2) no credits may be transferred from another institution for this certificate.

At the completion of this program, students will be able to:

- Acquire and integrate new knowledge as needed, using appropriate learning strategies.