

CIVIL ENGINEERING - WATER/ WASTEWATER ENGINEERING CERTIFICATE

Certificate Details

The Department offers Graduate Certificates in three focus areas: Coastal Engineering, Structural Engineering, and Water/ Wastewater Engineering. Each Certificate requires the completion of 12 credit hours (four classes) in one of the three focus areas. Upon completion, a Graduate Certificate is awarded; however, all earned credits are full graduate credits and can either be applied toward a MSCE degree at USA, or transferred to other institutions. For acceptance, graduate certificate applicants should have a civil engineering Bachelor's degree (or closely related equivalent) and appropriate course prerequisites. The program requires satisfactory completion of 12 credit hours with a minimum GPA of 3.0 to be awarded the Certificate.

Admission to the Certificate Program

Regular Admission requirements:

1. A Bachelor's degree in Civil Engineering or a closely related field.
2. A grade-point average of 3.0 or greater (A=4.0) on all undergraduate work.
3. Verification of registration by examination as a Professional Engineer (P.E.) can be substituted for the GPA requirement.
4. International students whose native language is not English must submit official scores showing a score of 71 or higher on the internet-based TOEFL, or an IELTS band score of 6.5 or higher, or a Duolingo minimum score of 100, or an iTEP minimum score of 3.7, or a Pearson Academic minimum score of 48.

Admission may be granted in special cases where a holistic evaluation of the applicant's credentials is appropriate.

Water/Wastewater Engineering Certificate Program Requirements

Code	Title	Hours
CE 571	Biological Wastewater Treatmnt (required)	3
CE 572	Physical Wastewater Treatment (required)	3
Select at least 6 credits from the following:		
CE 574	Industrial Waste Treatment	3
CE 590	Special Topics - (Decentralized Wastewater Systems or Natural Treatment Systems)	1-4
CH 514	Environmental Chemistry	3