

RIVER SCIENCE AND ENGINEERING CERTIFICATE (GRADUATE)

Tulane University and the U.S. Army Engineer Corps of Engineers have partnered to provide a unique, graduate-level certificate program that focuses on teaching students both the science and engineering associated with river management. There is an emphasis on the academic underpinnings as well as pragmatic applications, and the interdisciplinary nature of rivers is stressed by including faculty who work in geology, civil engineering, geomorphology, river mechanics and engineering, biogeochemistry, ecology and numerical modeling. This program is offered fully online, combining self-taught modules with weekly Live Sessions and is available to students everywhere. This certificate program can, but does not have to, serve as a step toward a graduate degree in the subject.

Requirements

The River Science and Engineering program will consist of the completion of one required course, RCSE 6800 Intro to River Science & Eng (3 c.h.), that will be offered every Fall and Spring semester initially, and five additional courses (more elective courses may be added in the future). The existing coursework in the program is:

Course ID	Title	Credits
RCSE 6800	Intro to River Science & Eng (offered every Fall and Spring)	3
RCSE 6810	River and Stream Restoration (offered every Fall)	3
RCSE 6820	Hydraulic/ Hydrologic Modeling (offered every Fall)	3
RCSE 6830	River Mechanics & Management (offered every Spring)	3
RCSE 6840	Methods in River Sampling (offered every Spring)	3
RCSE 6900	Independent Study (offered every Fall and Spring)	1-3
Total Credit Hours		16-18

Students must complete the intro course prior to enrolling in advanced courses unless permission is obtained from the RCSE department chair (meadallison@tulane.edu) and the class instructor. This exception will be made for students who are not initially interested in completing the full certificate program and that also meet the instructor's prerequisites for entrance into the course. Each of the courses in the program will be three credit hours. Those completing 15 credit hours of required coursework will be granted a Graduate Certificate from Tulane. All six courses will be taught on the standard Tulane Fall and Spring semester schedule.