

CIVIL ENGINEERING - WATER AND ENVIRONMENT MINOR

The Minor in Civil Engineering -Water and Environment is available to students pursuing any undergraduate major in the School of Science and Engineering or in other Tulane colleges. In particular, students majoring in another engineering discipline may find the RCSE minor attractive as an additional skill set for the job market. Students with a major in the physical or environmental sciences might have already covered the pre- or co-requisites for the RCSE minor, making it a relatively easy addition to their expertise while matriculating at Tulane. Students majoring in the environmental sciences (e.g., EEB or EES) could strengthen their undergraduate training in water-related topics. Outside of SSE, any student interested in a career linked to environmental planning, climate change adaptations, the resilience of human and natural systems, and water utilization could benefit from this training. This umbrella includes fields as diverse as law, business, public health, and social sciences. We foresee particular links for students in the (1) Environmental Studies major (School of Liberal Arts), where strengthening their science and engineering background in the water sector would be advantageous in many career tracks, and (2) in the School of Architecture and Built Environment, where a program in landscape architecture and water resources has been developed.

Requirements

The Minor in Civil Engineering - Water and Environment requires 18 credit hours from the following six courses:

Course ID	Title	Credits
ENGP 1410	Statics	3
RCSE 3010	Water Resources Engineering I (Or)	3
or BMEN 3440	Biofluid Mechanics	
or CENG 2320	Transport I: Fluids	
RCSE 4010	Water Resources Engineering II (offered Fall semester)	3
RCSE 4030	Water Resources Engineering III (offered Spring semester)	3
RCSE 6800	Intro to River Science & Eng (offered Spring semester)	3
RCSE 6802	Introduction to Coastal Science and Engineering (offered Fall semester)	3
Total Credit Hours		18

In summary, to complete the minor, students using RCSE 3010 Water Resources Engineering I (3 c.h.) or BMEN 3440 Biofluid Mechanics (3 c.h.) for the fluid mechanics requirement will also need to successfully complete one semester each of calculus and physics. If using CENG 2320 Transport I: Fluids (3 c.h.), they will need three semesters of math (including 2 of calculus), one of physics, one of chemistry, and an additional CENG course (Thermodynamics). Likely the latter track to the RCSE minor will primarily be followed by students seeking a major in chemical engineering.

As further requirements for the RCSE minor, students must maintain a 2.00 GPA in all minor courses. No courses can count toward a second minor in SSE or other Tulane schools. For more information, please contact the Department Chair at emeselhe@tulane.edu.

Field of Study: CEWR

Catalog addenda note: A minor edit to the name of this program was made on 7/28/2025.

Contact

For more information, contact the School of Science and Engineering (<https://sse.tulane.edu/river/>).