

Environmental and Water Resources Engineering (MSE)

This program is designed to educate engineers who will solve environmental and water resources problems by applying concepts of sustainability and fundamental principles from the natural sciences, mathematics, mechanics, economics, and other underlying disciplines. To achieve this objective, the program offers a breadth of possible research and study areas. The faculty is one of the largest and most diverse in the nation, with expertise ranging from environmental fluid mechanics to water resources planning and from pollutant transport to treatment processes. The major areas of emphasis are treatment process engineering, air resources engineering, environmental remediation, water quality, water resources engineering, and ocean engineering. Because the program requires no specific courses, each student's education can be designed to meet their goals. The faculty offers a wide variety of courses, and students may choose courses in other related fields, such as chemical engineering, chemistry, geology, mathematics, microbiology, petroleum engineering, physics, and public policy. Once students choose a particular study area, they work closely with the faculty member or members conducting research in that area. Each student's program of study includes a balanced combination of coursework, seminars, and research. Well-equipped research laboratories, state-of-the-art instrumentation, and superb computation facilities support the graduate program, as do cooperation and coordination with research faculties and laboratories in physical, chemical, biological, and social sciences and other engineering disciplines.

Total Hours Required: 30

Requirements

Students who follow the 30-semester-hour plan with thesis must complete a major in civil engineering consisting of 18 to 24 semester hours, including the thesis course, and a minor of six to 12 semester hours outside the area of concentration. Included in the major and minor must be at least 18 semester hours in engineering. The courses must be logically related and the individual program must be approved by the graduate advisor.

A 30-semester-hour degree plan is also available under the report option, which includes a report prepared in [Civil Engineering 398R](#) according to procedures set by the Office of Graduate and Postdoctoral Studies; and under an option that includes a report prepared in [Civil Engineering 398D](#), or an approved program of coursework only, according to procedures set by the Graduate Studies Committee.

Code	Title	Hours
All students must also follow the following requirements and policies:		
Graduate Engineering Requirements		
Graduate University Requirements		