

Civil Engineering M.S.



Contact Information

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Faculty

Professors Amos, Bang, Fontaine, Gribb, Hansen, Kenner, Mott; Associate Professors Fazio, Stone, Surovek; Assistant Professors Arneson-Meyer, Benning, Fick, Roberts, Robinson; Professors Emeritus Hovey, Iyer, Propson, Preber, Ramakrishnan; Associate Professor Emeritus Klasi.

Civil Engineering

The Department of Civil and Environmental Engineering offers graduate study programs leading to the master of science degree in civil engineering in the following specialties: advanced materials, environmental, geotechnical, water resources, and structural engineering. Any one of the above subject areas may be chosen as an area of emphasis. Additional courses can be completed from any one of the above subject areas.

Emphasis within the department is on the professional development of the student and mastery of the technical and applied aspects of his or her specialty. Both thesis and non-thesis

options are available to candidates for the master of science degree in civil engineering.

Completion of a minimum of 30 credit hours are required for the thesis option of which six (6) credit hours of graduate research (CEE 798) and 24 credits of course work are required.

Independent study (CEE 691) and non-thesis research (CEE 788) are not applicable toward the thesis option. The non-thesis option requires completion of 32 credit hours of which 5 credits can be a combination of non-thesis research (CEE 788) and Independent study (CEE 691).

Modeling and computation in civil engineering (CEE 784) is required of all MSCE students.

Other specific course requirements may be applicable depending upon the student's area of specialization. Students who elect to specialize in environmental engineering must include CEE 634, 730, 731, or 733 in their program of study. Students who elect to specialize in water resources engineering must include CEE 521 in their plan of study. Students who specialize in Geotechnical Engineering must complete CEE 643 and CEE 647. All rules and regulations of the graduate office, included elsewhere, apply to candidates for the degree of master of science in civil engineering.

The Department of Civil and Environmental Engineering has well equipped laboratories in concrete and advanced composite materials preparation, materials testing, bench and pilot-scale bridge testing, hydraulic engineering, soil mechanics, and water and wastewater analysis. These laboratories are available for student thesis research. Students will make considerable use of various computer labs for their course work and research. A number of campus computer labs are open to all students and the CEE department supports several labs dedicated computers for use by CEE students.