

Master of Science in Engineering Science (MSES)

Total Minimum Hours: 30

These degrees are for students without an undergraduate engineering degree who wish to pursue a Master's degree in Civil Engineering. This program consists of a minimum of 24 credit hours of coursework and 6 credit hours of thesis:

Pre-Requisites

Students are required to complete undergraduate engineering pre-requisite courses required for specific courses or as determined by their major professor.

Core Requirements Civil Engineering Students (24 hours)

- A maximum of 9 credits taken outside the CEE department may be applied to meet the degree requirements.
- A maximum of 6 credits of 4000 level courses may be applied to meet the degree requirements.
- A maximum of 6 credits of independent study may be applied to meet the degree requirements.

Core Requirements Environmental Engineering Students (24 hours)

- ENV 6002 Physical Chemical Principles (3)
- CGN 6933 Biological Principles (3)
- ENV 6666 Aquatic Chemistry (3)
- CGN 6933 Green Engineering for Sustainability (3) *or* CGN 6933 Green Infrastructure for Sustainable Communities (3) *or* CGN 6933 Sustainable Development Engineering (3)
- 12 additional courses required based on approval of graduate committee

Thesis Requirements (6 hours)

The Department supports MSES concentration areas in Environmental Engineering (EVE), Geotechnical Engineering (GTL), Interdisciplinary Transportation (ITP), Materials Engineering and Science (MTL), Structural Engineering (STR), Transportation Engineering (TPT) and Water Resources (WRS). Students work with a Major Professor and thesis committee to map out their graduate program and thesis requirements.

Master's thesis committees consist of the major professor in the department and at least two other members or co-major professors and at least one other member of the department or area of interest in which the degree is sought.

