

MASTER OF ENGINEERING IN GEOTECHNICAL ENGINEERING

These master of engineering programs are course-only, professionally oriented degree programs that permit a concentration in preparation for engineering practice. Admission requirements to these programs are the same as those for the master of science program. Candidates in these programs must complete a minimum of 32 credit hours, up to three of which may be a special project course—CAE 597 or ENVE 597. Up to 12 credit hours of 400-level undergraduate coursework (except CAE 431 and CAE 432) may be included in the master of engineering program with prior adviser approval. No thesis or comprehensive examination is required for completion of the degree.

The geotechnical engineering program provides background knowledge and training to prepare students to analyze, design, and construct structures, and to provide solutions to problems in geotechnical engineering and environmental geotechnics. The subjects include engineering behavior of soil and rock, geomechanics, foundations, earth support structures, dams, tunnels, slope stability, geotechnical earthquake engineering and soil dynamics, site improvement, geosynthetics, groundwater, pollutant transport, chemical behavior of soil, and waste disposal facilities. Laboratory experiments and computer analyses/modeling are incorporated.

Curriculum

Required Courses		(16)
CAE 562	Engineering Behavior of Soil	4
CAE 564	Design of Foundations, Embankments and Earth Structures	4
CAE 565	Rock Mechanics and Tunneling	4
CAE 566	Earthquake Engineering and Soil Dynamics	4
General Electives		(16)
Select 16 credit hours		16
Total Credit Hours		32