**Geotechnics (ME)**
Distance Graduate Degree Program

*Department of Geological Sciences and Engineering*

**Program Description**
Missouri University of Science and Technology is one of the top geotechnology schools in the country. Its online master of engineering in geotechnics is an interdisciplinary program with a practice-oriented project requirement. Geotechnics combines both the fields of soil mechanics and rock mechanics with engineering to form a comprehensive program of study. It requires 30 credit hours of coursework to complete, with a minimum of 15 credit hours of geological engineering courses. Students take courses in geology and geotechnics, soil mechanics, rock mechanics and subsurface hydrology. In addition, courses in civil engineering, environmental engineering, geological engineering, geology and geophysics and mining engineering may be applied toward the geotechnics degree.

**Credit Hours to Complete:** A total of 30 credit hours are required to complete the degree.

**Course Length:** 16 weeks (fall/spring); 8 weeks (summer)

**Delivery Format:** Courses are delivered over the Internet, via live streaming video; collaborative learning software includes WebEx and Blackboard; classes are archived online for review and easy access. For some courses, DVDs or CDs are mailed to the students to allow flexibility with learning.

**Course Management Software:** Blackboard

**Admission Requirements**
Bachelor's degree in related discipline; GRE: V+Q ≥ 298 (1050 on previous scale), A ≥ 3.5; GPA ≥ 2.75; or enroll in geotechnics certificate program, complete the four core courses with a grade of “B” or better in each to advance to the graduate degree. International requirement: TOEFL ≥ 560.

**Department Contact Information**

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Geotechnics
Distance Graduate Certificate Program
Department of Geological Sciences and Engineering

Geotechnics
This certificate program is designed to provide formalized engineering education to practitioners in geology, geological engineering, mining engineering and geotechnical engineering.

One of the following courses (or equivalents) is required prior to admittance into the program.

- Ge 50: Geology for Engineers or Ge 51: Physical Geology
- Min 231: Rock Mechanics I or CE 215: Elementary Soil Mechanics

Curriculum:
The student must take the following 300-level courses:

- GeE 341: Engineering Geology and Geotechnics
- GeE 371: Rock Mechanics I
- CE 315: Intermediate Soil Mechanics or Min 432 Rock Mechanics II

*Curriculum is subject to change. Other courses approved by the program coordinator may be substituted for any of the above listed courses on a case-by-case basis.

Students who successfully complete the certificate program will automatically be admitted to the master of engineering in Geotechnics. The certificate courses will be counted toward the ME degree and no GRE score will be required for admission.

Admission Requirements
Admission requirements to the certificate program include an undergraduate degree (B.S. or equivalent), and the necessary prerequisites to the required courses (Prerequisites may be waived on a case-by-case basis by the course instructors). A GRE score is not required for admittance into the certificate program.

The student must have an average cumulative grade of 3.0 (B-grade) or better in the four certificate courses, and complete the requirements in three years or less to obtain their certificate.

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