

Master of Engineering: Geotechnical Engineering



What is a Master of Engineering Degree?

A Master of Engineering (MEng) degree is a professional coursework-based degree offered at Western University. A MEng degree can be completed in one year on a full-time basis; or in 20 months on a part-time basis for students who work full-time (with courses offered only on Fridays).

Why Pursue a Master of Engineering Degree?

- Complete a post-graduate degree in a minimum of one year on full-time basis
- Learn practical engineering skills
- Stand out from other engineering graduates
- Advance your career
- Obtain Canadian credentials - a crucial entry-point for international students and newcomers to Canada seeking employment opportunities in engineering

Why Pursue a Geotechnical Master of Engineering Degree at Western?

Western University's Civil & Environmental Engineering program, **ranked #1 in Canada and #14 worldwide**, by the Academic Ranking of World Universities (www.shanghairanking.com), is renowned for its excellence, nationally and internationally, due to its outstanding academic curricula, award-winning professors and state-of-the-art facilities.

Geotechnical engineering deals with the engineering behaviour of soil, rock, groundwater, and their impact on the design, construction and operation of infrastructure. Geotechnical engineers analyze soil behaviour under the influence of stresses for the design of foundations, retaining walls, tunnels and earth dams, and for the selection of railroad and highway routes. Geoenvironmental engineers develop and apply technologies for the clean-up and management of contaminated soil and groundwater. Students will learn advanced topics in subsurface contamination, site design & assessment, as well as geotechnical design. These courses are taught by world leaders of the field from the University of Western Ontario as well as around the world.

Admission Requirements

- Minimum 70 per cent average in a four-year honours degree or equivalent from an accredited university (Average based on last two years of the degree), as determined by the Department
- Work experience is not mandatory, but considered an asset
- Two letters of reference (preferably academic)
- English language proficiency for international students

Fees

Canadian citizens/permanent residents: ~ \$14,833/year full-time, ~ \$3,723/year part-time* International students: ~ \$33,538/year full-time, ~ \$15,899/year part-time* Fees are subject to change; please see the posted [Fee Schedule](#) for up-to-date fees.

* Minimum residence is seven terms, proof of employment required.

Course Offerings 2019-2020

CEE	9511	DESIGN OF EARTH STRUCTURES	2019	Fall
CEE	9522	ADVANCED SOIL MECHANICS	2019	Fall
CEE	9890	SUBSURFACE CONTAMINATION (with 4479)	2019	Fall
CEE	9529	FOUNDATION ENGINEERING	2019	Fall
CEE	9533	GEOTECHNICAL IN-SITU TESTING	2020	Winter
CEE	9702	GEOTECHNICAL EARTHQUAKE ENGINEERING	2020	Winter
CEE	9523	ENVIRONMENTAL GEOTECHNIQUE	2020	Winter
CEE	9880	OFFSHORE GEOTECHNICAL DESIGN (with ???)	2020	Winter
CEE	9704	SITE ASSESSMENT & REMEDIATION OF SOILS	2020	Summer
Professional Courses:				
ENGSCI	9010	INTELLECTUAL PROPERTY OF ENGINEERS	2020	Summer
ENGSCI	9185	RISK ASSESSMENT & MANAGEMENT IN ENGINEERING SCIENCE	2020	Summer
ENGSCI	9501	ENGINEERING BUSINESS	2020	Summer
ENGSCI	9510	ENGINEERING PLANNING & PROJECT MANAGEMENT	2020	Summer
ENGSCI	9670	ENGINEERING COMMUNICATIONS	2020	Summer

*course offerings are subject to change

For more information, please contact:

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