

What if I want an MS degree in Civil Engineering and do not have a BS in engineering—what can I do?

If you would like to enter the MS in Civil Engineering program at Michigan Tech and do **not** have a BS degree in an engineering discipline, you will need to make up some missing coursework to ensure your success in your graduate engineering degree.

MS degree in Civil Engineering (MSCE)

The Master of Science in Civil Engineering is designed for the pursuit of advanced civil engineering studies. This program is designed as a pathway to a career in civil engineering and requires the student to complete coursework approximately equivalent to an undergraduate degree in engineering.

The minimum courses (or equivalents) required for MS who **do not** have an undergraduate degree in an engineering discipline and associated prerequisites are as follows:

If interested in **materials, transportation, water resources, structures, geotechnics, or construction engineering**, complete the following prerequisite courses:

Course	Course Title	Prerequisites
CH 1150/51	University Chemistry I and Lab	
MA 1160	Calculus I	MA 1032
MA 2160	Calculus II	MA 1160
MA 3710	Statistics	MA 2160 or MA 3160
MEEM 2110	Statics	MA 2160
PH 1100/2100	University Physics I - Mechanics	MA 1160
ENG 3200	Thermo/Fluids	MA 2160 + CH 1150/1151 + PH 2100 + ENG 1102

AND select several courses from the table below in consultation with your advisor. Up to 12 credits of 3000/4000-level courses can be counted as MSCE degree:

CEE 3101	CE Materials	MEEM 2150 or ENG 2120
CEE 3202	Structural Analysis	(MEEM 2150 or ENG 2120) AND MA 2321
CEE 3332	Construction Engineering	
CEE 3401	Introduction to Transportation	
CEE 3501/3503	Introduction to Env. Eng.	MA 2160 + CH 1150/51
CEE 3620	Water Resources Engrg.	ENG 3200 + MA 3710(C)
CEE 3810	Soil Mechanics	GE 2000 + (MEEM 2150 or ENG 2120) + ENG 3200

Course	Course Title	Prerequisites
	3 Credits of Science Electives	
MA 1160	Calculus I	MA 1032
MA 2160	Calculus II	MA 1160
MA 2330	Elementary Linear Algebra	MA 1160 or MA1161 or MA 1135 or MA 1121
MA 3710	Statistics	MA 2160 or MA 3160
MEEM 2110	Statics	MA 2160

If interested in **geospatial engineering**, complete the following prerequisite courses: