

Pre-requisite Courses for the Geological Engineering Program

YR1 Fall		YR1 Spring		YR2 Fall		YR2 Spring		YR3 Fall		YR3 Spring		YR3 Summer		YR4 Fall		YR4 Spring	
Pre-Reqs	Course	Pre-Reqs	Course	Pre-Reqs	Course	Pre-Reqs	Course	Pre-Reqs	Course	Pre-Reqs	Course	Pre-Reqs	Course	Pre-Reqs	Course	Pre-Reqs	Course
Freshmen	UN1001	Freshmen	UN1002	UN1001 UN1002 Fr. Or Soph.	UN2001*	Soph.	UN2002	Junior or Senior	EC3400		HASS**				HASS**		HASS**
MA1032 or MA1031 or MathACT>=29 or MathSAT>=650	MA1160	MA1160	MA2160*	MA2160	MA3160	MA1160	MA2320*				MA2160	MA3710 OR ENVE3502*					HASS**
MA1032 or MA1031 or Math ACT>=19	CH1150 CH1151			PH1100	PH1200*	MA2160 MA2320	MA3520*										Free Elective
MA1160(C)	PH1100*	PH1100(C) MA1160 MA2160(C)	PH2100*	PH1200(C) PH2100 MA2160	PH2200*				GE3850		Geo Eng Technical Elective				Geo Eng Technical Elective		Geo Eng Technical Elective
MA1160(C) (Spatial Vis>=19 or ENG1002(C))	ENG1101* OR (ENG1001* and ENG1100*)	ENG1101 MA1160	ENG1102*			ENG1102 PH2100 MA2160	ENG1210	MA2160 CH1150 CH1151 PH2100 ENG1102	ENG3200* OR (ENG3507* and CH3501*)	GE2000 ENG2120 ENG3200	CE3810*						
Freshmen or Sophomore	GE1100		GE2000	GE2000 CH1150 CH1151	GE2300	GE2300	GE2310	GE2000 GE2310	GE3100	GE2000	GE3050	GE2000 GE2310 GE3050	GE3910	Senior	GE4900	GE4900 Senior	GE4910
						PH2200	GE3040	CH1150 CH1151	GE3200 OR ENVE3503*			GE3040	GE3900		Advanced Geophysics Elective		

Geo Eng. Technical Electives			
Pre-Reqs	Course	Pre-Reqs	Course
GE2020 PH2100	GE3400	not Freshmen	CE3331
GE2000 UN2002	GE4150*	not Freshmen	CE3332
PH2100	GE4360	Senior	CE4010
GE2310 GE3050 GE3910	GE4760	Not Fr. ENG3200 MA3710(C)	CE3620*
	GE4610	CE3810	CE4820
GE3850	GE4800	CE3810	CE4830
MA2160 CH1150 CH1151	ENVE3503*	CE3101	CE4840

Advanced Geophysics Electives	
Pre-Reqs	Course
GE3040	GE4550
GE3040	GE4600

General Education
Math & Science
Engineering Science
Engineering Design

* See List of Alternate Pre-requisites (Courses from the List of Alternate Pre-requisites satisfy the requirements of each course, but if the pre-requisite is not a required Geo Eng course, approval is needed from the Geological Engineering advisor to apply the credits to the Geological Engineering program).

**HASS Distribution Courses

<http://www.admin.mtu.edu/em/documents/HASS%20Distribution%20List.pdf>

(C) Co-Requisite