

GEOLOGICAL ENGINEERING, BAsc. (for Class of 2025)

Created March 4, 2021 by MSD

STUDENT NAME:

DATE:

COMPLETE y/n	IN PROGRESS y/n	SUBSTITUTION give code	CODE	TITLE	TERM	CREDITS	COMMENTS
FIRST YEAR COMMON CORE							
			APSC100	Engineering Practice - 3 Modules:		9.0	
			APSC101	Engineering Problem Solving and Modelling	F	2.9	
			APSC102	Experimentation and Design	F/W	2.8	
			APSC103	Engineering Design Project	W	3.3	
			APSC199	English Proficiency for Engineers	F/W	0.2	
			APSC111	Physics I	F	3.3	
			APSC131	Chemistry and Materials	F	3.3	
			APSC142	Computer Programming for Engineers (could be MNTC 313)	F	3.3	
			APSC151	Earth Systems Engineering	F	3.3	
			APSC171	Calculus I	F	3.3	
			APSC112	Physics II	W	3.3	
			APSC132	Chemistry and its Applications	W	3.3	
			APSC162	Basic Engineering Graphics	F	2.5	
			APSC172	Calculus II	W	3.3	
			APSC174	Introduction to Linear Algebra	W	3.3	
			APSC182	Applied Engineering Mechanics	W	1.7	

SECOND YEAR COMMON CORE							
			CHEE 209	Analysis of Process Data	F	3.5	
			CIVL 230	Introduction to Solid Mechanics	F	4.2	
			GEOE 207	History of Life	F	3.5	
			GEOE 221	Geological Engineering Field Methods	F	5.0	
			GEOE 232	Mineralogy	F	4.5	
			GEOE 281	Intro to Geological Engineering	F	3.5	
			APSC 221	Economics and Business Practices in Engineering	W	3.0	
			APSC 200	Engineering Design and Practice II	W	4.0	
			APSC 293	Engineering Communications	W	1.0	
			GEOE 235	Genesis and Characterization of Solid Earth Materials	W	4.0	
			GEOE 238	Surficial Processes, Sedimentation and Stratigraphy	W	4.0	
			GEOE 249	Geophysical Characterization of the Earth	W	3.5	
			MTHE 225	Ordinary Differential Equations	W	3.5	

THIRD YEAR COMMON CORE + 1 Elective							
			GEOE 300	Geological Engineering Field School (August)	F	4.0	
			CIVL 340	Geotechnical Engineering I	F	3.7	
			GEOE343	Hydrogeology	F	3.5	
			GEOE 321	Analysis of Rock Structures	F	4.0	
			GEOE 365	Geochemical Characterization of the Earth	F	4.0	
			GEOE 359	Applied Quantitative Analysis in Geol. Engineering	F	3.5	
			GEOE 313	Geomechanics and Engineering Geology	W	3.5	
			GEOE 362	Resource Engineering	W	4.5	
			GEOE 319	Applied Geophysics	W	4.5	
			GEOE 333	Terrain Evaluation	W	4.0	
			GEOE 345	Site Investigation and Geol Engineering Design	W	4.0	
			1 Technical Elective	taken in Third year	F/W	3.5	

FOURTH YEAR COMMON CORE + 7 Electives							
			GEOE 410/419	Geological Engineering Field School	F	4	
			GEOE 446	Engineering Design Project I	F	4	
			GEOE 447	Engineering Design Project II	W	5.5	
		List A,B,C:	HSS ELECTIVE 1	typically taken in Fourth year	F/W	3	
		List A,B,C:	HSS ELECTIVE 2	taken in Fourth year	F/W	3	
		List A,B,C:	HSS ELECTIVE 1	taken in Fourth year	F/W	3	
		See below	Typically 4 Technical Electives taken in 4th year.		F/W	14	
NOTE that Elective requirements are by Credit Minimum of 17.5 Technical Elective Credits must be taken One TE must be from a mandated List (See below)							

TECHNICAL ELECTIVE LIST

TERM CREDITS

1 Engineering Technical Elective from MANDATORY ES/ED List

--	--	--	--	--	--	--	--

Free Technical Electives from Master List (TE requirement is in terms of Credits not Number of Courses)

TOTAL TE CREDITS (MUST BE >= 17.5)