

Department of Geological Sciences - San Diego State University
Emphasis in Engineering Geology

Course	Title	Units
I Preparation courses (required)		
Geological Sciences 105	Historical Geology	4
Geological Sciences 200	Geologic Inquiry & Problem Solving	3
Geological Sciences 221	Mineralogy	4
Geological Sciences 224	Petrology	4
Biology 100/100L or Biology 101/101L	General Biology World of Animals	4 4
Chemistry 200	General Chemistry	5
Chemistry 201	General Chemistry	5
Engineering Mechanics 200	Statics	3
Mathematics 150	Calculus I	5
Mathematics 151	Calculus II	4
Mathematics 252	Calculus III	4
Statistics 250	Statistical Principles and Practices	3
Physics 195/196/197	Principles of Physics	9
II Preparation courses (recommended)		
Physics 195L/196L/197L	Principles of Physics Laboratory	3
Civil Engineering 218	Surveying for Civil Engineers	3
III Upper division (required)		
Geological Sciences 300	Computer Applications in Geology	3
Geological Sciences 306	Structural Geology and Field Methods	5
Geological Sciences 307	Geophysics and Field Methods	4
Geological Sciences 498B	Senior Thesis	1-3
Geological Sciences 508	Advanced Field Geology	4-6
Geological Sciences 536	Sedimentation and Lithostratigraphy	3
Geological Sciences 550	Engineering Geology	3
Geological Sciences 551	Hydrogeology	3
Civil Engineering 301	Introduction to Solid Mechanics	3
Civil Engineering 462	Geotechnical Engineering	3
Civil Engineering 463	Geotechnical Engineering Laboratory	1
At least one of the following classes:		
Geological Sciences 505	Photogeology and Remote Sensing	3
Geological Sciences 514	Process Geomorphology	3
Geological Sciences 530	Geochemistry	3
Geological Sciences 530L	Geochemistry Lab	1
Geological Sciences 560	Earthquake Seismology	3
Civil Engineering 465	Foundation Engineering and Earth Retaining Structures	3