



Faculty of Earth Sciences



Department of Mineral Resources & Rocks 3rd & 4th Years Program



The Geological Society
Accredited degree courses

Compulsory Courses

Course No.	Course Title	Study units	Lecture	Lab	Training	Prerequisite	Field Trips (Days)
EMR 311	Systematic Mineralogy	2	2	0	0	EMR 211, CHEM 281	-
EMR 321	Volcanology	2	2	0	0	EMR 304	-
EMR 331	Ore Mineralogy	2	2	0	0	EMR 231	-
EMR 332	Geology of Mineral Deposits	3	2	1	0	EMR 231, EMR 241	-
EMR 334	Ore Microscopy	2	0	2	0	EMR 331	-
EMR 341	Geochemical Techniques	2	2	0	0	EMR 241	-
EMR 399	Training in the Specialization	2	0	0	2	ESR 301, EMR 332	21
EMR 408	Seminar	1	1	0	0	EMR 399	-
EMR 421	Igneous Petrology	3	2	1	0	EMR 304	-
EMR 422	Metamorphic Petrology	2	1	1	0	EMR 304	-
EMR 432	Industrial Minerals and Rocks	2	2	0	0	EMR 231	-
EMR 433	Mining geology	2	1	1	0	EMR 231	-
EMR 434	Mineral Deposits of the Kingdom	2	2	0	0	EMR 431	-
EMR 441	Isotopic Geology	1	1	0	0	EMR 241	-
EMR 442	Geochemistry of Mineral Deposits	2	2	0	0	EMR 332	-
EMR 443	Geological and Geochemical Exploration	3	2	1	0	EMR 231, EMR 241	-
EMR 499	B.Sc. Project	4	0	0	4	EMR 399	21
Total			37 credit hours				

List of Geoscience courses suggested from another departments

Course No.	Course Title	Study units	Lecture	Lab	Prerequisite
ESR 311	Analysis of Directional Data	2	1	1	ESR 301
ESR 412	Geotectonics	2	1	1	ESR 399
EPS 342	Petroleum Geology	3	2	1	EPS 221 & ESR 211
EHG 316	Introduction to Hydrogeology	3	2	1	MATH 110&ESR 211
EGP 471	Geophysical Applications	3	2	1	EPS 211, EGP 211, ESR 211
Total		13 credit hours			

List of Non-Geoscience courses suggested from another faculties

Course No.	Course Title	Study units	Lecture	Lab	Prerequisite
MET 201	General Meteorology	3	3	-	None
Total		3 credit hours			