



Faculty of Earth Sciences



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



The Geological Society
Accredited degree courses

Departmental Program

Third Year (After Specialization)

5th Level (17 Credit Units)

	Course Name	Course Symbol	الرمز / الرقم	Contact hours per week			Credit Hours	Pre-requisite
				Lecture	Lab.	Training		
1	Arabic Language (2)	ARAB 201	عرب ٢٠١	3	0	0	3	ARAB 101
2	Principals of Geochemistry	EMR 241	ض ثر ٢٤١	2	0	0	2	EMR 201 CHEM 281
3	Introduction to Petrology	EMR 304	ض ثر ٣٠٤	3	3	0	4	EPS 211, EMR 211
4	Systematic Mineralogy	EMR 311	ض ثر ٣١١	2	0	0	2	EMR 211, CHEM 281
5	Ore mineralogy	EMR 331	ض ثر ٣٣١	2	0	0	2	EMR 231
6	Geotectonics	ESR 412	ض بش ٤١٢	2	0	0	2	ESR 211
7	Industrial minerals and rocks	EMR 432	ض ثر ٤٣٢	2	0	0	2	EMR 231
Total				17 Credit Units				

6th Level (18 Credit Units)

	Course Name	Course Symbol	الرمز / الرقم	Contact hours per week			Credit Hours	Pre-requisite
				Lecture	Lab.	Training		
1	Islamic Culture (3)	ISLS 301	سلم ٣٠١	2	0	0	2	ISLS 201
2	Analysis of directional data	ESR 311	ض بش ٣١١	1	3	0	2	ESR 301
3	Volcanology	EMR 321	ض ثر ٣٢١	2	0	0	2	EMR 304
4	Geology of mineral deposits	EMR 332	ض ثر ٣٣٢	2	3	0	3	EMR 231, EMR 241
5	Ore microscopy	EMR 334	ض ثر ٣٣٤	0	6	0	2	EMR 331

6	Geochemical techniques	EMR 341	ض ثر ٣٤١	2	0	0	2	EMR 241
7	Igneous petrology	EMR 421	ض ثر ٤٢١	2	3	0	3	EMR 304
8	Geology of the Kingdom	EMR 431	ض ثر ٤٣١	2	0	0	2	ESR 301, EMR 304
Total				18 Credit Units				

Summer 2								
	Course Name	Course Symbol	الرمز/ الرقم.	Lecture	Lab.	Training	Credit Hours	Pre-requisite
1	Geological Mapping	ESR 303	ض بش ٣٠٣	0	0	2	2	ESR 301, STAT 110
2	Training in the Specialization	EMR 399	ض ثر ٣٩٩	0	0	2	2	ESR 301, EMR 332

7th Level (18 Credit Units)

	Course Name	Course Symbol	الرمز/ الرقم.	Contact hours per week			Credit Hours	Pre-requisite
				Lecture	Lab.	Training		
1	Islamic Culture (4)	ISLS 401	سلم ٤٠١	2	0	0	2	ISLS 301
2	Data Processing and Statistical Geology	EHG 201	ض جم ٢٠١	2	0	0	2	EMR 201 MATH 110
3	Introduction to hydrogeology	EHG 316	ض جم ٣١٦	2	3	0	3	MATH 110& ESR 211
4	Petroleum geology	EPS 342	ض بر ٣٤٢	2	3	0	3	EMR 304 , ESR 211
5	Seminar	EMR 408	ض ثر ٤٠٨	1	0	0	1	EMR 399
6	Metamorphic petrology	EMR 422	ض ثر ٤٢٢	1	3	0	2	EMR 304
7	Mining geology	EMR 433	ض ثر ٤٣٣	1	3	0	2	EMR 231
8	Geological and geochemical exploration	EMR 443	ض ثر ٤٤٣	2	3	0	3	EMR 231, EMR 241
Total				18 Credit Units				

8th Level (15 Credit Units)

	Course Name	Course Symbol	الرمز / الرقم.	Contact hours per week			Credit Hours	Pre-requisite
				Lecture	Lab.	Training		
1	General meteorology	MET 201	رصد ٢٠١	3	0	0	3	--
2	Mineral deposits of the Kingdom	EMR 434	ض نر ٤٣٤	2	0	0	2	EMR 431
3	Isotope geology	EMR 441	ض نر ٤٤١	1	0	0	1	EMR 241
4	Geochemistry of mineral deposits	EMR 442	ض نر ٤٤٢	2	0	0	2	EMR 332
5	Geophysical Applications	EGP 471	ض جف ٤٧١	2	3	0	3	EPS 211, EGP 211, ESR 211
6	B.Sc. Project	EMR 499	ض نر ٤٩٩	0	0	4	4	EMR 399
Total				15 Credit Units				