



Faculty of Earth Sciences



Hydrogeology Department



The Geological Society
Accredited program courses

Departmental Program

Third Year (After Specialization)
5th Level (18 Credit Units)

Course Name		Course Symbol	الرمز / الرقم	Contact hours per week			Credit Hours	Pre-requisite
				Lecture	Lab.	Training		
1	Arabic Language (2)	ARAB201	عرب ٢٠١	3	0	0	3	ARAB 101
2	Introduction to Petrology	EMR 304	ض ث ٣٠٤	3	3	0	4	EPS 211, EMR 211
3	Principals of Geochemistry	EMR241	ض ث ٢٤١	2	0	0	2	EMR 201 CHEM 281
4	Geological surveying	ESR 302	ض بش ٣٠٢	2	3	0	3	ESR 211 ESR 231
5	Applied hydrology	EHG 311	ض جم ٣١١	2	3	0	3	MATH 110, EMR 201
6	Elements of flow through porous media	EHG 312	ض جم ٣١٢	2	3	0	3	MATH 110, EMR 201
Total				18 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)	ISLS301	سلم ٣٠١	2	0	0	2	ISLS 201
2 Principles of economy	ECON 100	قصد ١٠٠	2	0	0	2	--
3 Groundwater geology	EHG 313	ض جم ٣١٣	2	3	0	3	ESR 211, EHG 311
4 Intro. to groundwater hydrochemistry	EHG 314	ض جم ٣١٤	2	3	0	3	EMR 241
5 Groundwater hydraulics	EHG 315	ض جم ٣١٥	2	3	0	3	EHG 312
6 Geology of the Kingdom	EMR 431	ض ثر ٤٣١	2	0	0	2	ESR 301, EMR 304
7 Geophysical applications	EGP 471	ض جف ٤٧١	2	3	0	3	EPS 211, EGP 211, ESR 211
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 يش ٣٠٣	0	0	2	2	ESR 301, STAT 110
2 Training in the Specialization	EHG 399	ض جم ٣٩٩	0	0	2	2	EHG 315, EGP 471

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)	ISLS401	سليم 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	Subsurface geology	EPS 341	ض بر ٣٤١	2	3	0	3	EPS 211, EMR 304
4	Seminar	EHG 408	ض جم ٤٠٨	1	0	0	1	EHG 399
5	Hydrogeology of the Kingdom	EHG 413	ض جم ٤١٣	2	0	0	2	EHG 399
6	Isotope hydrology	EHG 414	ض جم ٤١٤	2	0	0	2	EHG 314
7	Groundwater pollution	EHG 415	ض جم ٤١٥	2	3	0	3	EHG 314
8	Principles of remote sensing	ESR 421	ض بش ٤٢١	2	3	0	3	ESR 231
Total				18 Credit Units				

8th Level (14 Credit Units)

Course Name		Course Symbol	الرمز / الرقم	Contact hours per week			Credit Hours	Pre-requisite
				Lecture	Lab.	Training		
1	Statistical geology	EHG 401	ض جم ٤٠١	2	0	0	2	EHG 201
2	Technology of water wells	EHG 411	ض جم ٤١١	3	0	0	3	EHG 315
3	Management and planning of GW resources	EHG 412	ض جم ٤١٢	2	3	0	3	EHG 315
4	Introduction to groundwater modeling	EHG 416	ض جم ٤١٦	1	3	0	2	EHG 315
5	B.Sc. Project	EHG 499	ض جم ٤٩٩	0	0	4	4	EHG 399
Total				14 Credit Units				

