

# University of Mosul



## College of Science

## Geology Department

*First Cycle – Bachelor's degree (B.Sc.) – Geology*



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### **1 . Mission & Vision Statement**

#### *Vision Statement*

**For the department to be a pioneer in the field of earth sciences and to be distinguished at the local, regional and global levels, with a focus on education, training, services, applied research and community service.**

#### *Mission Statement*

**Preparing qualified graduates with knowledge and creativity in the field of geology, who are able to interact with the requirements of the age and technology, and contribute to building Iraqi society on sound scientific and ethical foundations.**

### **2 . Program Specification**

Programme code:	BSc-Geo	ECTS	240
Duration:	4 levels, 8 Semesters	Method of Attendance:	Full Time

**Preparing qualified graduates with knowledge and creativity in the field of geology, who are able to interact with the requirements of the age and technology, and contribute to building Iraqi society on sound scientific and ethical foundations.**

### **3 . Program Objectives**

- 1. Providing the graduate with the necessary scientific knowledge in geology, which aims to deepen understanding of the methodology of analysis, criticism and scientific research, and to use these skills to study and exploit natural resources.**
- 2. Empowering the graduate with practical and research skills that qualify him to excel and succeed in his practical life, and to be able to enroll in distinguished postgraduate programs.**
- 3. Enabling the student to train and gain practical experience on a wide range of modern technologies and by using advanced scientific equipment in the various disciplines of geology.**
- 4. Increasing awareness of geology among the general public (society) and its role in advancing national development and production.**
- 5. Developing the student's skills to use modern research sources to enable him to build the necessary scientific skills such as scientific writing skill, debate skill, constructive criticism, and scientific communication.**
- 6. Developing the department to be a center of excellence for earth sciences research and postgraduate studies.**
- 7. Preparing students to occupy jobs in the industrial sector, the government sector, and in the fields of geological work, whether professional, research, or academic.**

### **4 . Student Learning Outcomes**

Students with a Bachelor's degree in Geology are expected to have acquired the following skills:

- 1 . Acquire basic concepts in earth sciences and distinguish types of minerals, rocks, fossils and geological structures in the field using laboratory and analytical techniques.
- 2 . Using applied skills and laboratory and field techniques to analyze and interpret data, evaluate wealth, and find solutions to geological and environmental problems, taking into account the requirements of public safety in the laboratory and field.
3. Understanding ethical and professional responsibilities and realizing the economic, environmental, societal and global implications of technical and scientific solutions to geological and environmental problems.
- 4 . Ability to communicate effectively and work as a team.

## 5 Academic Staff

Information for teachers					
Phon. No	e. mail	Academic degree	University degree	Name	ت
07701846020	omarbadrani@uomosul.edu.iq	Professor	Ph.D	Omar Ahmed Mawlood Al Badrani	.1
07715111959	saddammostafa@uomosul.edu.iq	Lecturar Assistant	Ph.D	Saddam Issa Mustafa Al-Khatuni	.2
07716844736	nesreenaziz@uomosul.edu.iq	Professor	Ph.D	Nisreen Mal Allah Aziz Al-Akidi	.3
07728209012	zaidmalak@uomosul.edu.iq	Professor	Ph.D	Zaid Abdul Wahab Malik Khalil	.4
07701755688	rafeege066@uomosul.edu.iq	Assistant Professor	Ph.D	Rafi Ibrahim Abdullah Al-Hamdani	.5
07704190567	Saher@uomosul.edu.iq	Assistant Professor	Ph.D	Sahar Abdel Qasim Muhammad Al Hashem	.6
07701877064	drmahamustafa@uomosul.edu.iq	Assistant	Ph.D	Maha Abdel Hamid	.7

		Professor		Mustafa Al-Hassoun	
07510352052	abdhadidi65@uomosul.edu.iq	Assistant Professor	Ph.D	Abdullah Sultan Shihab Al-Hadidi	.8
07701734252	drahedalmallah@uomosul.edu.iq	Assistant Professor	Ph.D	Ahed Younis Abdullah Al-Mallah	.9
07722020899	Mohamedalhaj@uomosul.edu.iq	Assistant Professor	Ph.D	Muhammad Ahmed Muhammad Al-Hajj	10
07716379587	hassainsalim@uomosul.edu.iq	Assistant Professor	Ph.D	Salem Hamid Hussein Al-Bajari	11
07701734499.. 07507077643	rabeeazinad@uomosul.edu.iq	Assistant Professor	Ph.D	Rabie Khalaf Hassan Zannad	12
07701722127	o.k.mohammed-sajed@uomosul.com	Assistant Professor	Ph.D	Omar Khalouk Muhammad Sajid Al-Dulaimi	13
7708282726	basharaziz@uomosul.edu.iq	Assistant Professor	Ph.D	Bashar Aziz Mahmoud Al-Jarisi	14
07701828293	Ibrahimshareefi@uomosul.edu.iq	Assistant Professor	Ph.D	Ibrahim Younis Ahmed Al-Sharifi	15
7701779965	falahabed@uomosul.edu.iq	Assistant Professor	Ph.D	Falah Abdul Muhammad Al-Maamari	16
07701618100	dr.mohammedsheettaka@uomosul.edu.iq	Assistant Professor	Ph.D	Muhammad Sheet Muhammad Ramzi Yahya Taqa	17
07701606864	drsanadalkhashab@uomosul.edu.iq	Lecturar	Ph.D	Sanad of Abdul-Ilah Mahmoud Al-Khashab	18
07701713413	mahfoudhali@uomosul.edu.iq	Lecturar	Ph.D	Mahfouz Abdullah Ali Al-Hadidi	19

07701735661	anf1277@uomosul.edu.iq	Lecturar	Ph.D	Ahmed Nazir Thanoun Al Fattah	20
07715477150	flyahabas@uomosul.edu.iq	Lecturar	Ph.D	Falih Hassan Abbas Al-Khalifa	21
07740856481	mahmodabdhaq@uomosul.edu.iq	Lecturar	Ph.D	Mahmoud Abdel Haq Khamis Al-Sumaidaie	22
07730085506	dr.radhwanatroshe@uomosul.edu.iq	Lecturar	Ph.D	Radwan Khalil Haider Al-Atrushi	23
07510536765	safwanfathi@uomosul.edu.iq	Lecturar	Ph.D	Safwan Fathi Hamid Al-Lahibi	24
07733776543	amawad@uomosul.edu.iq	Lecturar	Ph.D	Adel Murad Awad. Al-Shammari	25
07701694076	noortalal@uomosul.edu.iq	Lecturar	M.Sc.	Nour Talal Ismail Al-Taie	26
07725227277	roaamihmed@uomosul.edu.iq	Lecturar	M.Sc.	Roaa Muhammad Hassan Al-Sharifi	27
07705021522	dhiaaalsultani@uomosul.edu.iq	Lecturar	M.Sc.	Diaa Ghawi Saleh Al-Sultani	28
07738496715	zainabmosadq@uomosul.edu.iq	Lecturar	M.Sc.	Zainab Mosaddeq Naguib Shanshal	29
07731002931	odayothman@uomosul.edu.iq	Lecturar	M.Sc.	Uday Muhammad Saleh Othman Al-Bajji	30
07511393085	ezzatalfandi@uomosul.edu.iq	Lecturar	M.Sc.	Izzat Ibrahim Khader Al-Fandi	31
07701711626	alaawazan@uomosul.edu.iq	Lecturar	M.Sc.	Alaa Mahmoud Saeed Al-Wazzan	32

07516286373	masuliman@uomosul.edu.iq	Lecturar	M.Sc.	Muhammad Ahmed Suleiman Al-Abdul-Razzaq	33
07702044503	<a href="mailto:shareefalhameed@uomosul.edu.iq">shareefalhameed@uomosul.edu.iq</a>	Lecturar Assistant	M.Sc.	Sharif Thamud Sharif Al-Hamid	34
07704112241	Zahraa1981@uomosul.edu.iq	Lecturar Assistant	M.Sc.	Zahraa Zarzis Muhammad Al-Jubouri	35
07702099903	omarsaif@uomosul.edu.iq	Lecturar Assistant	M.Sc.	Omar Saif Al-Din Daoud Al-Tawil	36
07705247910	lumahazim@uomosul.edu.iq	Lecturar Assistant	M.Sc.	Lama Hazem Ahmed Kharoufa	37
07508267398	annabdulsattar@uomosul.edu.iq	Lecturar Assistant	M.Sc.	Anne Abdel Sattar Ismail Al Iraqi	38
07700300037	<a href="mailto:rayyanhamoo@uomosul.edu.iq">rayyanhamoo@uomosul.edu.iq</a>	Lecturar Assistant	M.Sc.	Rayan Abdel Haq Ahmed Haj Hamo	39
7701619472	<a href="mailto:midian680@uomosul.edu.iq">midian680@uomosul.edu.iq</a>	Lecturar Assistant	M.Sc.	Madin Raad Ghazal Al-Jubouri	40
07518584629	<a href="mailto:mohmed.m.m@uomosul.edu.iq">mohmed.m.m@uomosul.edu.iq</a>	Lecturar Assistant	M.Sc.	Muhammad Muwaffaq Yahya Al-Tai	41
07724239055	<a href="mailto:Mohammedhamed11022@gmail.com">Mohammedhamed11022@gmail.com</a>	Lecturar Assistant	M.Sc.	Muhammad Hamid Ibrahim	42
07702806621		Lecturar Assistant	M.Sc.	Measar Samir Mahmoud	43
		Lecturar Assistant	M.Sc.	Rana Abdul-Ilah Mahmoud	44

## 6 Credits, Grading and GPA

### Credits

Mosul University is following the Bologna Process with the European Credit Transfer System (ECTS) credit system. The total degree program number of ECTS is 240, 30 ECTS per semester. 1 ECTS is equivalent to 25 hrs student workload, including structured and unstructured workload.

### Grading

Before the evaluation, the results are divided into two subgroups: pass and fail. Therefore, the results are independent of the students who failed a course. The grading system is defined as follows:

GRADING SCHEME			
Group	Grade	Marks (%)	Definition
<b>Success Group (50 - 100)</b>	A - Excellent	90 - 100	Outstanding Performance
	B - Very Good	80 - 89	Above average with some errors
	C - Good	70 - 79	Sound work with notable errors
	D - Satisfactory	60 - 69	Fair but with major shortcomings
	E - Sufficient	50 - 59	Work meets minimum criteria
<b>Fail Group (0 - 49)</b>	FX – Fail	(45-49)	More work required but credit awarded
	F – Fail	(0-44)	Considerable amount of work required
<b>Note:</b>			
Number Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.			

### Calculation of the Cumulative Grade Point Average (CGPA)

- The CGPA is calculated by the summation of each module score multiplied by its ECTS, all are divided by the program total ECTS.

CGPA of a 4-year B.Sc. degree:

$$\text{CGPA} = [ (1\text{st module score} \times \text{ECTS}) + (2\text{nd module score} \times \text{ECTS}) + \dots ] / 240$$

## 7 Curriculum/Modules

**Semester 1 | 30 ECTS | 1 ECTS = 25 hrs**

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
GEO-1101	General Geology I	93	107	8.00	C	
GEO-1102	Crystallography	93	107	8.00	C	



COS-1103	Chemistry	93	107	8.00	C	
Sci-101	Mathematic	33	17	2.00	B	
UOM-104	Democracy & Human Right	33	17	2.00	B	
UOM-101	Arabic Language	33	17	2.00	B	

**Semester 2 | 30 ECTS | 1 ECTS = 25 hrs**

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
GEO-1214	General Geology II	93	107	8.00	C	GEO-1101
GEO-1205	Mineralogy	93	107	8.00	C	
GEO-1206	Physics	93	82	7.00	C	
GEO-1207	Statistics	33	17	2.00	C	
UOM-103	Computer	63	12	3.00	B	
UOM-102	English Language	33	17	2.00	B	

**Semester 3 | 30 ECTS | 1 ECTS = 25 hrs**

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
GEO-2318	Optical Mineralogy	108	42	6.00	C	GEO-1215
GEO-2309	Paleontology	78	72	6.00	C	
GEO-23010	Sedimentology	78	47	5.00	C	
UOM- 201	Crimes of the defunct Baath Party	33	17	2.00	B	
GEO-23011	Petrology	78	72	6.00	C	
GEO-23012	Geomorphology	63	62	5.00	C	

**Semester 4 | 30 ECTS | 1 ECTS = 25 hrs**

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
GEO-24013	Igneous Petrology	79	47	5.00	C	
GEO-24014	Micropaleontology I	79	47	5.00	C	
GEO-24015	Sedimentary Petrology	79	47	5.00	C	
GEO-24016	Metamorphic Petrology	79	47	5.00	C	

GEO-24117	Invertebrates Paleontology	63	62	5.00	C	GEO-2319
GEO-24018	Remote Sensing	63	62	5.00	C	

**Semester 5 | 30 ECTS | 1 ECTS = 25 hrs**

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
GEO-35019	Structural Geology I	78	47	5.00	C	
GEO-35020	Geotectonic	78	47	5.00	C	
GEO-35021	Gravity and Magnetic methods	78	47	5.00	C	
GEO-35022	Geochemistry	63	62	5.00	C	
GEO-35023	Stratigraphy	63	62	5.00	C	
GEO-35124	Micropaleontology II	78	47	5.00	C	GEO-24014

**Semester 6 | 30 ECTS | 1 ECTS = 25 hrs**

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
GEO-36125	Structural Geology II	78	72	6.00	C	GEO-24019
GEO-36026	Field Geology	78	47	5.00	C	
GEO-36027	Basin analysis and Sequence Stratigraphy	78	47	5.00	C	
GEO-36028	Sedimentary environments	78	72	6.00	C	
GEO-36029	Geology of Iraq	78	47	5.00	C	
GEO-36030	Methodology	48	27	3.00	S	

**Semester 7 | 30 ECTS | 1 ECTS = 25 hrs**

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
GEO-47037	Geological Field	78	72	6.00	C	
GEO-47038	Engineering Geology	78	47	5.00	C	
GEO-47039	Petroleum Geology	78	72	6.00	C	
GEO-47140	Ore Geology	78	47	5.00	C	GEO-35022

GEO-47041	Environmental Geology	78	47	5.00	C	
GEO-47042	Computer Application in Earth science	48	27	3.00	S	

**Semester 8 | 30 ECTS | 1 ECTS = 25 hrs**

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
GEO-48037	Hydrogeology	78	47	5.00	C	
GEO-48138	Well logging	78	47	5.00	C	GEO-47033
GEO-48039	Exploration geochemistry	78	72	6.00	C	
GEO-48040	Geology of Industrial Rocks	78	72	6.00	C	
GEO-48041	Seismic and Electrical methods	78	47	5.00	C	
GEO-48042	Research Project	48	27	3.00	C	

## 8 **Contact**

Program Manager:

Omar Ahmed Al-Badrani, Ph.D., Professor [omarbadrani@uomosul.edu.iq](mailto:omarbadrani@uomosul.edu.iq)

07701846020

Program Coordinator:

Saddam Issa Al-Khatuni, Ph.D., teacher [saddammostafa@uomosul.edu.iq](mailto:saddammostafa@uomosul.edu.iq)

07715111959

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