

# University of Mosul

## College of Science

### Department of Geology



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



# Table of Contents|

- 
1. Mission & Vision Statement
  2. Program Specification
  3. Program (Objectives) Goals
  4. Program Student learning outcomes
  5. Academic Staff
  6. Credits, Grading and GPA
  7. Modules
  8. Contact

## 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

Seq No.	Name	Degree	Position	Email	Mobile
1.	Omar Ahmed Mawlood Shihab	PhD	Prof. Dr.	<a href="mailto:omarbadrani@uomosul.edu.iq">omarbadrani@uomosul.edu.iq</a>	07701846020
2.	Saddam Essa Mustafa Suliman	PhD	Assist. Prof.	<a href="mailto:saddammustafa@uomosul.edu.iq">saddammustafa@uomosul.edu.iq</a>	07715111959
3.	Nisreen M. Aziz Mahmood	PhD	Prof. Dr.	<a href="mailto:nesreenaziz@uomosul.edu.iq">nesreenaziz@uomosul.edu.iq</a>	07716844736
4.	Zaid Abdulwahab Malak Khaleel Al-Abbasi	PhD	Prof. Dr.	<a href="mailto:zaidmalak@uomosul.edu.iq">zaidmalak@uomosul.edu.iq</a>	07728209012
5.	Rafi' Ibraheem Abdullah Al-hamide	PhD	Prof. Dr.	<a href="mailto:rafeegeo66@uomosul.edu.iq">rafeegeo66@uomosul.edu.iq</a>	07701755688
6.	Sahar Abed Qasim Mohammed	PhD	Assist. Prof.	<a href="mailto:Saher@uomosul.edu.iq">Saher@uomosul.edu.iq</a>	07704190567
7.	Maha Abdulhameed Mustafa Al-Hasson	PhD	Assist. Prof.	<a href="mailto:drmhamustafa@uomosul.edu.iq">drmhamustafa@uomosul.edu.iq</a>	07701877064
8.	Abdullah Sultan Shihab Ahmed Alhadidi	PhD	Assist. Prof.	<a href="mailto:abdhadidi65@uomosul.edu.iq">abdhadidi65@uomosul.edu.iq</a>	07510352052
9.	Aahed Younis Abdullah Younis Al-Mallah	PhD	Assist. Prof.	<a href="mailto:drahedmallah@uomosul.edu.iq">drahedmallah@uomosul.edu.iq</a>	07701734252
10.	Mohammed Ahmed Mohammed Amen Al-Haj	PhD	Assist. Prof.	<a href="mailto:Mohamedalhaj@uomosul.edu.iq">Mohamedalhaj@uomosul.edu.iq</a>	07722020899
11.	Salim Hamed Huusain Marie Al-bajari	PhD	Assist. Prof.	<a href="mailto:hassainsalim@uomosul.edu.iq">hassainsalim@uomosul.edu.iq</a>	07716379587
12.	Rabeea Khalef hasan mohamed znad	PhD	Assist. Prof.	<a href="mailto:rabeeazinad@uomosul.edu.iq">rabeeazinad@uomosul.edu.iq</a>	07701734499
13.	Omar Khalooq Mohammed-Sajed yahya	PhD	Assist. Prof.	<a href="mailto:o.k.mohammed-sajed@uomosul.com">o.k.mohammed-sajed@uomosul.com</a>	07701722127
14.	Bashar Aziz Mahmoud Mohammed Saleh	PhD	Assist. Prof.	<a href="mailto:falahabed@uomosul.edu.iq">falahabed@uomosul.edu.iq</a>	7701779965
15.	Ibrahim Younis Ahmad Mohammed Al-Shareefi	PhD	Assist. Prof.	<a href="mailto:basharaziz@uomosul.edu.iq">basharaziz@uomosul.edu.iq</a>	7708282726
16.	Falah Abed Mohammed Azzawi Al-Miamary	PhD	Assist. Prof.	<a href="mailto:Ibrahimshareefi@uomosul.edu.iq">Ibrahimshareefi@uomosul.edu.iq</a>	07701828293
17.	Mohammed Sheet Mohammed Ramzi yahya Taka	PhD	Assist. Prof.	<a href="mailto:dr.mohammedsheettaka@uomosul.edu.iq">dr.mohammedsheettaka@uomosul.edu.iq</a>	07701618100
18.	Flyah Hasan Abbas Hamza Al-Khaleefah	PhD	Assist. Prof.	<a href="mailto:flyahabas@uomosul.edu.iq">flyahabas@uomosul.edu.iq</a>	07715477150
19.	Safwan Fathi Hamed Al-Lhaebi	PhD	Assist. Prof.	<a href="mailto:safwanfathi@uomosul.edu.iq">safwanfathi@uomosul.edu.iq</a>	07510536765
20.	Mahfoodh Abdullah Ali Hussein Mlawhy	PhD	Assist. Prof.	<a href="mailto:mahfoudhali@uomosul.edu.iq">mahfoudhali@uomosul.edu.iq</a>	07701713413
21.	Sanad Abdulelah Mahmood Dawood Al-Khashab	PhD	Lect. Dr.	<a href="mailto:drsanadalkhashab@uomosul.edu.iq">drsanadalkhashab@uomosul.edu.iq</a>	07701606864
22.	Ahmed Natheer Thanoon Ahmed	PhD	Lect. Dr.	<a href="mailto:anf1277@uomosul.edu.iq">anf1277@uomosul.edu.iq</a>	07701735661
23.	Mahmood Abdulhaq khamees Alsumaiaie	PhD	Lect. Dr.	<a href="mailto:mahmodabdhaq@uomosul.edu.iq">mahmodabdhaq@uomosul.edu.iq</a>	07740856481
24.	Adil Murat Awad Erhail	PhD	Lect. Dr.	<a href="mailto:amawad@uomosul.edu.iq">amawad@uomosul.edu.iq</a>	07733776543
25.	Radhwan Khaleel Hayder Mohammed Alatrosh	PhD	Lect. Dr.	<a href="mailto:dr.radhwanatrosh@uomosul.edu.iq">dr.radhwanatrosh@uomosul.edu.iq</a>	07730085506
26.	Noor Talal Ismael taha	PhD	Lect. Dr.	<a href="mailto:noortalal@uomosul.edu.iq">noortalal@uomosul.edu.iq</a>	07701694076
27.	Roaa Mohammed Hassan Mahmood	PhD	Lect. Dr.	<a href="mailto:roaamihmed@uomosul.edu.iq">roaamihmed@uomosul.edu.iq</a>	07725227277
28.	Rana Abdulelah Mahmood Mohammad Ali Alhialy	PhD	Lect. Dr.	<a href="mailto:Rana.Abdulelah@uomosul.edu.iq">Rana.Abdulelah@uomosul.edu.iq</a>	07740923114
29.	Dheyaa Ghawi Saleh Ali	MSc	Assist. Prof.	<a href="mailto:dhiaaalsultani@uomosul.edu.iq">dhiaaalsultani@uomosul.edu.iq</a>	07705021522
30.	Zainab musadaq najeeb shanshal	MSc	Assist. Prof.	<a href="mailto:zainabmosadq@uomosul.edu.iq">zainabmosadq@uomosul.edu.iq</a>	07738496715

31.	Oday Mohammed Salih Othman	MSc	Lect.	odayothman@uomosul.edu.iq	07731002931
32.	Alaa mhmoood sead hassan al wazan	MSc	Lect.	ezzataalfandi@uomosul.edu.iq	07511393085
33.	Ezzat Ibrahim khudhur Ali Al- fandi	MSc	Lect.	alaawazan@uomosul.edu.iq	07701711626
34.	Mohammed Ahmed Suliman Abdullah	MSc	Lect.	masuliman@uomosul.edu.iq	07516286373
35.	Shareef Thamod Shareef Al-Hamed	MSc	Lect.	Zahraa1981@uomosul.edu.iq	07704112241
36.	Zahraa Jarjess Mohammed Fathel	MSc	Lect.	omarsaif@uomosul.edu.iq	07702099903
37.	Omar Saifuldeen Dawood Sluiman Altaweel	MSc	Lect.	<a href="mailto:shareefalhameed@uomosul.edu.iq">shareefalhameed@uomosul.edu.iq</a>	07702044503
38.	Madyan Raad Ghaza AL_Gburi	MSc	Lect.	<a href="mailto:midian680@uomosul.edu.iq">midian680@uomosul.edu.iq</a>	7701619472
39.	Luma Hazim Ahmed Mohammed Kharofa	MSc	Lect.	lumahazim@uomosul.edu.iq	07705247910
40.	Ann Abdulsattar Ismael	MSc	Assist. Lect.	annabdulsattar@uomosul.edu.iq	75082673980
41.	Rayan Abdul-Haq Ahmed Hamoo	MSc	Assist. Lect.	<a href="mailto:rayyanhamoo@uomosul.edu.iq">rayyanhamoo@uomosul.edu.iq</a>	07700300037
42.	Mohammed Muwafaq Yahya ahmed	MSc	Assist. Lect.	<a href="mailto:mohmed.m.m@uomosul.edu.iq">mohmed.m.m@uomosul.edu.iq</a>	07518584629
43.	Mohammed Hamid Ibrahim Mohammed	MSc	Assist. Lect.	<a href="mailto:mohammedhamed11022@gmail.com">mohammedhamed11022@gmail.com</a>	07724239055
44.	myasar sameer mahmood younis	MSc	Assist. Lect.	myasar.sameer@uomosul.edu.iq	07706112369
45.	Ameen Satam Ahmed Mansour	MSc	Assist. Lect.		
46.	Moamin Mohammed Younus Mohammed	MSc	Assist. Lect.	mmymmb91@uomosul.edu.iq	07709408352
47.	Eman Nathim Hazam	MSc	Assist. Lect.		
48.	Basma Mohammed Shreef	MSc	Assist. Lect.		

## 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	
Success Group (50 - 100)	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	
Fail Group (0 – 49)	FX – Fail	(45-49)	More work required but credit awarded	
	F – Fail	(0-44)	Considerable amount of work required	
Note:				
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)*

1. 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	
GEO-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	93	57	6.00	C	GEO-1215
GEO-2309	Paleontology	63	62	5.00	C	
GEO-23010	Sedimentology	63	62	5.00	C	
UOM- 2025	Crimes of the defunct Baath Party	33	17	2.00	B	
GEO-23011	Petrology	63	62	5.00	C	
GEO-23012	Geomorphology	63	62	5.00	C	
UOM2012	Arabic Language 2	33	17	2.00	C	

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

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
GEO-24013	Igneous Petrology	78	47	5.00	C	
GEO-24014	Micropaleontology I	78	22	4.00	C	
GEO-24015	Sedimentary Petrology	78	22	4.00	C	
GEO-24016	Metamorphic Petrology	78	22	4.00	C	
GEO-24117	Invertebrates Paleontology	63	37	4.00	C	GEO-2309
GEO-24018	Geotectonic	63	37	4.00	C	
UOM-2032	Computer 2	48	27	3.00	B	
UOM-2022	English Language 2	33	17	2.00	B	

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

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
GEO-35019	Structural Geology I	78	72	6.00	C	
GEO-35020	Remote Sensing	78	22	4.00	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-47031	Geological Field	78	72	6.00	C	
GEO-47032	Engineering Geology	78	47	5.00	C	
GEO-47033	Petroleum Geology	78	72	6.00	C	
GEO-47134	Ore Geology	78	47	5.00	C	GEO-35022
GEO-47035	Environmental Geology	78	47	5.00	C	
GEO-47036	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**      **PhD.**      **Professor**      [omarbadrani@uomosul.edu.iq](mailto:omarbadrani@uomosul.edu.iq)      07701846020

Program Coordinator:

**Saddam Essa Mostafa Al-khatony**      **PhD.**      **Assistant Prof.**      [saddammostafa@uomosul.edu.iq](mailto:saddammostafa@uomosul.edu.iq)      07715111959

دقق الملف من قبل

شعبة ضمان الجودة والأداء الجامعي

اسم مدير شعبة ضمان الجودة والأداء الجامعي: محمود عبد الحق الصميدعي

التاريخ



التوقيع :

اسم رئيس القسم: أ.د. عمر احمد البدراني

التاريخ :



التوقيع