



University of Oum El Bouaghi

Bachelor's degree in Earth & Marine Sciences

1. Program Description:

The choice made by the training team for the bachelors in fundamental geology is justified by the availability of human and material resources allowing quality supervision for the students. This training will allow students to acquire a solid quantitative and naturalistic training in geological phenomena. It aims to provide solid fundamental knowledge, both theoretical and practical, in the main disciplines of geology. This training is therefore based on the acquisition of basic knowledge in geology (general geology, tectonics, petrography, mineralogy, stratigraphy and paleontology) as well as more specific lessons in chemistry, physics and mathematics. The training in the 3rd year of the bachelors is linked to the first and second year (level 1 and 2 Geology) by knowledge that is both fundamental and practical. Students must acquire the methods of studying our planet, from the surface to the subsurface. The objective of the “Fundamental Geology” course is to train students in current methods of investigation in geology, geochemistry and tectonics. Indeed, the new study methods in Earth Sciences are increasingly based on the quantification of geological and geochemical objects and processes.

Semester 1

Teaching Unit	Course title	Credits	Coefficients	Hourly weekly Volume			HSV (15 weeks)	Other*	Evaluation Mode	
				Course	TD	Lab			CC*	Exam
Fundamental TU Code : FTU 111 Credits : 8 Coefficients : 4	Geology-1	8	4	3h00	-	3h00	90h00	67h30	40%	60%
Fundamental TU Code : FTU 112	Mathématiques-1	4	2	1h30	1h30	-	45h00	45h00	40%	60%
	Physics-1	3	2	1h30	1h30	-	45h00	45h00	40%	60%

Credits : 11 Coefficients : 6	Chemistry-1	4	2	1h30	1h30	-	45h00	45h00	40%	60%
Methodological TU Code : MTU 11 Credits : 8 Coefficients : 4	Biology-1	4	2	1h30	-	1h30	45h00	45h00	40%	60%
	Geomorphology	4	2	1h30	-	1h30	45h00	45h00	40%	60%
Transversal TU Code : TTU 11 Credits: 3 Coefficients : 3	IT-1	2	2	1h30	-	1h30	45h00	45H00	40%	60%
	Techniques of expression- 1	1	1	-	1h30	-	22h30	22h30	100%	-
Total Semester 1		30	17	12h00	6h00	7h30	382h30	360h00	-	-

Other* = Additional work in semi-annual consultation; CC* = Continuous control.

Semester 2

Teaching Unit	Course title	Credits	Coefficients	Hourly weekly Volume			HSV (15 weeks)	Other*	Evaluation Mode	
				Course	TD	Lab			CC*	Exam
Fundamental TU Code : FTU 121 Credits : 8 Coefficients : 4	Geology-2	8	4	3h00	-	3h00	90h00	67h30	40%	60%
Fundamental TU Code : FTU 122 Credits : 11 Coefficients : 6	Mathematics-2	4	2	1h30	1h30	-	45h00	45h00	40%	60%
	Physics-2	3	2	1h30	1h30	-	45h00	45h00	40%	60%
	Chemistry-1	4	2	1h30	1h30	-	45h00	45h00	40%	60%
Methodological TU Code : MTU 12 Credits : 8 Coefficients : 4	Biology-1	4	2	1h30	-	1H30	45h00	45h00	40%	60%
	Introduction to Geological maps	4	2	1h30	-	1H30	45h00	45h00	40%	60%
Transversal TU Code : TTU 12 Credits : 3 Coefficients : 3	IT-2	2	2	1H30	-	1H30	45h00	45h00	40%	60%
	Techniques of expression- 2	1	1	-	1h30	-	22h30	22h30	100%	-
Total Semester 2		30	17	12h00	6h00	7h30	382h30	360h30	-	-

Other* = Additional work in semi-annual consultation; CC* = Continuous control.

Semester 3

Teaching Unit	Course		Credits	Coefficient	Hourly weekly Volume			VHS (15 weeks)	Other*	Evaluation Mode	
	Code	Title			Course	TD	Lab			CC*	Exam
Fundamental TU FTU 31 Credits : 12 Coefficients : 6	F311	Crystallography	6	3	1h30	3h		67h30	67h30	40%	60%
	F312	Mineralogy	6	3	1h30		3h00	67h30	67h30	40%	60%
Fundamental TU FTU 32 Credits : 6 Coefficients : 3	F321	Tectonics 1	6	3	1h30		3h 00	67h30	67h30	40%	60%

Methodological TU MTU 31 Credits : 9 Coefficients : 5	M311	Stratigraphy	4	2	1h30	1h30		45h00	45h00	40%	60%
	M312	Paleontology	5	3	1h30		2h30	60h00	60h00	40%	60%
Transversal TU Code : TTU31 Credits : 3 Coefficients : 3	T311	Data base management	2	2	1h30		1h30	45h00	45h00	40%	60%
	T312	English 1	1.	1		1h30		22h30	22h30	100%	
Total semester 3			30	17	9h	4h30	11h30	375h00	375h00		

Other* = Additional work in semi-annual consultation; CC* = Continuous control.

Semester 4

Teaching Unit	Course		Credits	Coefficient	Hourly weekly Volume			HSV (15 weeks) Code	Other*	Evaluation Mode	
	Code	Title			Course	PW	Lab			CC*	Exam
	Fundamental TU Code : FTU41 Credits : 9 Coefficients : 5	F411			Igneous rocks Petrology	5	3	1h30		3h00	67h30
F412		Sedimentary rocks Petrology	5	3	1h30		3h00	67h30	67h30	40%	60%
Fundamental TU Code : FTU42 Credits : 10 Coefficients : 6	F421	Tectonics 2	5	3	1h30		3h00	67h30	67h30	40%	60%
	F422	Micropaleontology	5	3	1h30		3h00	67h30	67h30	40%	60%
Methodological TU Code : MTU41 Credits : 9 Coefficients : 5	M411	Geochemistry	4	2	1h30		2h30	60h00	60h00	40%	60%
	M412	Field training	4	2				45h00	45h00	100%	
Discover TU Code : DTU41 Credits : 2 Coefficients : 2	T411	Geophysics	2	2	1h30	1h30		45h00	45h00	40%	60%
Total semester 4			30	18	9h00	1h30	14h30	420h	420h00		

Other* = Additional work in semi-annual consultation; CC* = Continuous control.

L3- Semester 5 :

Teaching Unit	Course		Credits	Coefficients	Hourly weekly Volume			VHS (15 s)	Others	Evaluation Mode	
	Code	Title			Course	TD	Lab			CC	Exam
Fundamental TU Code : FTU51 Credits : 12 Coefficient : 7	F511	Metamorphic rocks Petrology	5	3	1h30		3h	67h30	67h30	x	x
	F512	Sedimentology	7	4	3h		3h	90h	90h	x	x
Fundamental TU Code : FTU52 Credits : 9 Coefficient : 5	F521	Historical Geology	4	2	3h			45h	45h	x	x
	F522	Regional Geology	5	3	1h30		3h	67h30	67h30	x	x
Methodological TU Code : MTU51	M531	Geophysics	4	2	1h30	1h30		45h	45h	x	x

Credits : 8 Coefficient : 4	M532	Geostatistics	4	2	1h30	1h30		45h	45h	x	x
Transversal TU Code : TTU51 Credits : 1 Coefficient : 1	T511	English	1	1	1h30			22h30	22h30	x	
Total semester 5			30	17	13h30	3h	9h	382h30	382h30		

Semester 6 : Fundamental Geology

Teaching Unit	Matières		Credits	Coefficients	Hourly weekly Volume			HSV (15 weeks)	Others	Evaluation Mode	
	Code	Intitulé			Course	TD	Lab			CC	Exam
Fundamental TU Code : FTU61 Credits : 8 Coefficient : 4	F611	Sedimentology	4	2	1h30		1h30	45h	45h	x	x
	F612	Paleontology	4	2	1h30		1h30	45h	45h	x	x
Fundamental TU Code : FTU62 Credits : 8 Coefficient : 4	F621	Microtectonics	4	2	1h30	1h30		45h	45h	x	x
	F622	Petrology/ Geochemistry	4	2	1h30	1h30		45h	45h	x	x
Methodological TU Code : MTU61	M611	Geology of Algeria	8	4	3h		3h	90h	90h	x	x

Credits :12	M612	Stage	4	2			3h	45h	45h	x	
Coefficient:6											
Transversal TU	T611	Ethics and Deontology	1	1	1h30			22h30	22h30		x
Code : TTU61											
Credits :2	T612	Project management	1	1	1h30			22h30	22h30		x
Coefficient:2											
Total semester 6			30	16	12h00	3h	9h	360h	360h		