

Democratic and People's Republic of Algeria
Ministry of Higher Education and Science
Hassiba Benbouali University – Chlef



Offer of Academic Licence
Biochemistry

Department	Faculty	University
Biology	Natural and Life Sciences	Hassiba Benbouali

Field: Natural and life sciences
Subject: Biological Sciences
Specialty: Biochemistry

Common Base «Natural and Life Sciences»

Semester 1

Teaching units	Subject matter		Credits	Coefficients	Hourly volume weekly			VHS (15 weeks)	Other*	Mode of evaluation			
	Code	Entitled			Course	TD	TP			CC*		Review	
U E Fondamentale Code: UEF 1.1 Credits: 15 Coefficients : 7	F 1.1.1	General and organic chemistry	6	3	1h30	1h30	1h30	67h30	60h00	x	40%	x	60%
	F 1.1.2	Cell biology	9	4	1h30	1h30	3h00	90h	90h00	x	40%	x	60%
U Methodology Code: EMU 1.1 Credits: 8 Coefficients: 4	M 1.1.1	Mathematical Statistics Computer	5	2	1h30	1h30	-	45h00	60h00	x	40%	x	60%
	M 1.1.2	Communication and Expression Techniques 1 (in French)	3	2	1h30	1h30	-	45h00	45h00	x	40%	x	60%
U E Discovery Code : UED 1.1 Credits: 5 Coefficients : 3	D 1.1.1	Geology	5	3	1h30	-	3h00	67h30	60h00	x	40%	x	60%
U E Transversal Code: UET 1.1 Credits: 2 Coefficients : 1	T 1.1.1	Universal History of the Biological Sciences	2	1	1h30	-	-	22h30	45h00	x			
Total Semester 1			30	15	9am	6:00	7:30	337h30	360h				

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

Semester 2

Units teaching	Subjects		Credits	Coefficients	Hourly volume weekly			VHS	Other*	Mode of evaluation			
	Code	Entitled			Course	TD	TP			CC*		Review	
U E Fondamentale Code: UEF 2.1 Appropriations: 22 Coefficients : 9	F 2.1.1	Thermodynamics and chemistry of solutions	6	3	1h30	1h30	1h30	67h30	60h	x	40%	x	60%
	F 2.1.2	Plant Biology	8	3	1h30	-	3h00	67h30	90h	x	40%	x	60%
	F 2.1.3	Animal Biology	8	3	1h30	-	3h00	67h30	90h	x	40%	x	60%
U Methodology Code: EMU 2.1 Credits: 6 Coefficients : 4	M 2.1.1	Physical	4	2	1h30	1h30	--	45h00	45h	x	40%	x	60%
	M 2.1.2	Communication and Expression Techniques 2 (in English)	2	2	1h30	1h30	-	45h00	45h	x	40%	x	60%
U E Transversal Code: UET 2.1 Credits: 2 Coefficients : 1	T 2.1.1	Working methods	2	1	1h30	-	-	22h30	25h	x			
Total Semester 2			30	14	10.30 am	4h30	7:30	315h	355h				

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

Semester 3

Teaching units	Subjects	Credits	Coefficients	Hourly volume weekly			VHS (15 weeks)	Other*	Mode of evaluation			
	Entitled			Course	TD	TP			CC*		Review	
U E Fondamentale Code: UEF 2.1.1 Credits: 8 Coefficients : 3	Zoology	8	3	2 x 1h30	1h30	1h30	90h00	45h00	x	40%	x	60%
U E Fondamentale Code: UEF 2.1.2 Appropriations: 16 Coefficients : 6	Biochemistry	8	3	2 x 1h30	1h30	1h30	90h00	45h00	x	40%	x	60%
	Genetic	8	3	2 x 1h30	2 x 1h30	-	90h00	45h00	x	40%	x	60%
U Methodology Code: EMU 2.1.1 Credits: 2 Coefficients: 1	Communication and Expression Techniques (in English)	2	1	1h30	-	-	22h30	20:00			x	100%
U Methodology Code: EMU 2.1.2 Credits: 2 Coefficients: 1	Working methods	2	1	1h30	-	-	22h30	20:00			x	100%
U E Discovery Code: UED 2.1.1 Credits: 2 Coefficients : 2	Biophysics	2	2	1h30	1h30	1h30	67h30	10am	x	40%	x	60%
Total Semester 3		30	13	13:30	7:30	4h30	382h30	185h				

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

Semester 4

Teaching units	Subjects	Credits	Coefficients	Hourly volume weekly			VHS (15 weeks)	Other *	Mode of evaluation			
	Entitled			Course	TD	TP			CC*		Review	
U E Fondamentale Code: UEF 2.2.1 Credits: 8 Coefficients : 3	Botany	8	3	2 x 1h30	1h30	1h30	90h00	45h	x	40%	x	60%
U E Fondamentale Code: UEF 2.2.2 Appropriations: 14 Coefficients : 5	Microbiology	8	3	2 x 1h30	1h30	1h30	90h00	45h	x	40%	x	60%
	Immunologie	6	2	1h30	1h30	-	45h00	37h	x	40%	x	60%
U Methodology Code: EMU 2.2.1 Credits: 4 Coefficients: 2	General Ecology	4	2	1h30	1h30	1h30	67h30	20h	x	40%	x	60%
U Methodology Code: EMU 2.2.2 Credits: 4 Coefficients: 2	Biostatistics	4	2	1h30	1h30	-	45h00	37h	x	40%	x	60%
Total Semester 4		30	12	10.30 am	7:30	4h30	337h30	184h				

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

Semester 5:

Teaching Unit	VHS	V.H weekly				Coeff	Credits	Mode of evaluation	
	14-16 sem	C	TD	TP	Personal work			Continuous (40%)	Exam (60%)
EU fundamental									
UEF1 (O/P): Cellular Biochemistry and Enzymology							12		
Subject 1: Advanced Enzymology	90h00	3h00	1h30	1h30	2h	3	6	2	1
Subject 2: Cellular and functional biochemistry	67h30	3h00	1h30	-	2h	3	6	2	1
UEF2 (O/P): Immunology and metabolic regulation							12		
Subject 1: Cellular and molecular immunology	67h00	3h00	1h30	-	2h	3	6	2	1
Material 2:Metabolic regulation	67h00	3h00	1h30	-	2h	3	6	2	1
EU methodology									
UEM1 (O/P)									
Subject 1: Methods and techniques of biological analysis	45h00	1h30	1h30	2h00	-	2	3	2	1
EU discovery									
UED1 (O/P)									
Subject 1: Toxicology	45h00	1h30	1h30	2h00	-	2	2	2	1
UE transversales									
UET1 (O/P)									
Subject 1: Scientific English	20:00	1h30	-	-	-	1	1	1	1
Total Semester 5	401h30	4:30pm	9am	5:30	8am	17	30	13	7

Semester 6:

Teaching Unit	VHS	V.H weekly				Coeff	Credits	Mode of evaluation	
	14-16 sem	C	TD	TP	Personal work			Continuous (40%)	Exam (60%)
EU fundamental									
UEF 3.2.1 (O/P): Molecular biology and genetic engineering							9		
Subject 1: Molecular biology	90h00	3am	1h30	1h30	2h	3	5	2	1
Subject 2: Genetic Engineering	45h00	1h30	1h30	-	2h	2	4	2	1
UEF 3.2.2 (O/P): Structure and function of macromolecules							6		
Material 1: Structure and function of macromolecules	60h00	3am	1h30	-	1h30	3	6	2	1
EU methodology									
UEM1 (O/P)									
Subject 1: Computer science and applied statistics	45h00	1h30	1h30	1h30	-	3	4	1	1
EU discovery									
UED1 (O/P): Plant pharmacology and biochemistry									
Subject 1: Pharmacology	45h00	1h30	1h30	-	-	2	4	2	1
Subject 2: Plant biochemistry	45h00	1h30	-	1h30	-	2	4	2	1
UE transversales									
UET1 (O/P): oral expression and mini-projects									
Subject 1: Oral expression	20:00	1h30	-	-	-	1	1	1	1
Subject 2: Mini-projects	30h00	-	-	-	-	1	2	-	1
Total Semester 6	380 hours	13:30	7:30	4h30	5:30	17	30	12	8

Overall summary of training: (indicate the separate global VH in progress, TD, TP... for the 06 teaching semesters, for the different types of UE)

VH \ UE	UEF	EMU	UED	UET	Total
Course	607h30	225	112h30	90	1035
TD	382h30	180	67h30		630
TP	315	75	97h30		487h30
Personal work	854h30	292	70	70	1286h30
Other (please specify)					
Total	2159h30	772	347h30	160	3439
Credits	122	33	17	8	180
% in credits for each EU	67.79	18.33	9.44	4.44	100%

Overall summary of training: (indicate the separate global VH in progress, TD,TP... for the 06 teaching semesters, for the different types of UE)

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Course	607h30	225	112h30	90	1035
TD	382h30	180	67h30		630
TP	315	75	97h30		487h30
Personal work	854h30	292	70	70	1286h30
Other (please specify)					
Total	2159h30	772	347h30	160	3439
Credits	122	33	17	8	180
% in credits for each EU	67.79	18.33	9.44	4.44	100%