

Pedagogical Program

L.M.D.

ACADEMIC LICENSE

Branch *Ecology and Environment*

Establishment	Faculty	Department
<i>Khemis Miliana University</i>	<i>Faculty of Nature and Life Sciences and Earth Sciences</i>	<i>Ecology and Environment</i>

Field	Branch	Speciality
<i>Nature and Life Sciences</i>	<i>Ecology and Environment</i>	<i>Ecology and Environment</i>

Summary of objectives and training pathways

The Degree in "Ecology and Environment" aims to provide students with scientific training in the field of soil sciences in their agro-environmental context. This training favors, from a physical, chemical and biological quantitative approach of natural and anthropogenic processes, the development of integrated observation of natural "objects" involved in environmental processes.

The main focus of the training is centered on knowledge and awareness of the importance of the environmental component as a non-renewable resource that is an integral part of natural and agricultural ecosystems.

Semester organization sheet for lessons

Semester 1

Teaching unit	Matter	Credit	Coefficient	C	TD	TP	Volume (hour)
Fundamental Unit	General and organic chemistry	6	3	1h30	1h30		67h30
	cellular biology	8	4	1h30	1h30		45h00
	Statistical Mathematics	4	2	1h30	1h30		45h00
Methodological unit	Geology	5	3	1h30		1h30	45h00
	Communication techniques and Expression 1 in French	4	2			1h30	22h30
Discovery unit	Working Method and Terminology 1	2	2	1h30			22h30
Transversale Unit	Universal History of Science Organic	1	1	1h30			22h30

Semester 2

Teaching unit	Matter	Credit	Coefficient	Courses	TD	Practical Work	Volume (hour)
Fundamental Unit	Thermodynamics and chemistry of	4	2	1h30	1h30	1h30	45h00
	Plant's biology	4	2	1h30	1h30		45h00
	Animal Biology	2	1	1h30	1h30		22h30
Methodological unit	Physical	4	2	1h30	1h30		45h00
	Communication Techniques and Expression 2	4	2	1h30	1h30		45h00

Teaching unit	Matter	Credit	Coefficient	Courses	TD	Practical Work	Volume (hour)
Discovery unit	Life sciences and socio-economic impacts	2	1		1h30		22h30
Transversale Unit	EthWorking Method and Terminology 2	1	1	1h30			22h30

Semester 03

Teaching unit	Matter	Credit	Coefficient	Weekly hourly volume			semester hourly volume
				C	TD	TP	
Fundamental Unit	Zoology	6	3	3h00		1h30	67h30
	Environment and Sustainable Development	6	3	3h00	1h30		67h30
	Genetic	6	3	3h00	1h30		67h30
Methodological unit	Communication and Expression Techniques	4	2	1h30	1h30		45h00
	Biophysics	5	3	1h30	1h30	1h00	60h00
Discovery unit	Plant physiology	2	2	1h30		1h30	45h00
Transversale Unit	Ethics and University Deontology	1	1	1h30			22h30
Total Semester		30	17	15h00	7h30	2h30	375h00

Semester 04

Teaching unit	Matter	Credit	Coefficient	Weekly hourly volume			semester hourly volume
				C	TD	TP	
Fundamental Unit	Botanical	6	3	3h00		1h30	67h30
	General ecology	8	4	3h00	1h30		90h00
	Study methods and inventory of fauna and flora	4	2	1h30	1h30		45h00
Methodological unit	Microbiology	4	2	1h30		1h30	45h00
	Biostatistics	5	3	1h30	1h30	1h00	60h00
Discovery unit	Pedology	2	2	1h30	1h30		45h00
Transversale Unit	Computer Tools	1	1	1h30			22h30
Total Semester		30	12	13h30	7h30	4h00	375h00

Semester 05

Teaching unit	Matter	Credit	Coefficient	C	TD	TP	HV
Fundamental Unit : (UEF 3.1.1(O/P)) Mesology (Environmental characterisation)	Matter 1: Bioclimatology	4	2	1h30	1h30	-	55h00
	Matter 2: Ecopédologie	6	3	3h00	1h30		82h30
	Matter 3: Géomorphologie	2	1	1h30	-	-	27h30
Fundamental Unit : UEF 3.1.2(O/P) Ecosystems pathologies	Matter 1: Environmental pollution	4	2	1h30	1h30	-	55h00
	Matter 2: Environmental analysis and protection	2	1	1h30	-	-	27h30
Methodological unit	Matter1 : Statistics and Data Analysis	5	3	1h30	1h30	1h00	65h00
	Matter 2: Mapping	4	2	1h30	1h30	-	55h00
Discovery unit	Matter 1: Plant Ecophysiology	2	2	1h30	-	1h30	45h00
Transversale Unit	Matter 1: Scientific English	1	1	1h30	-	-	22h30
Total Semester		30	17	15h00	7h30	2h30	375h00

Semester 06

Teaching unit	Matter	Credit	Coefficient	C	TD	TP	HV
UEF 3.2.1(O/P) (Population and community ecology)	Matter 1: Biology of populations and organisms	6	3	3h	1h30	-	82h30
	Matter 2: Biogeography	6	3	3h	1h30	-	82h30
	Matter 3: Biodiversity and Global Change	4	2	1h30	1h30	-	55h
	Matter 4: Conservation and sustainable development	2	1	1h30	-	-	27h30
Methodological unit	Matter1 : Methods of studying plant populations and stands	4	2	1h30	1h30	-	55h
	Matter 2: GIS and Remote Sensing	5	3	1h30	1h30	1h	60h
Discovery unit	Matter 1: Bioeconomy and legislation	2	2	1h30	1h30	-	45h
Transversale Unit	Matter 1: introduction to geostatistics	1	1	1h30	-	-	22h30
Total Semester		30	17	15h00	7h30	2h30	375h00