

# LEARNING SCHEDULE

Valid from 1st year of study,  
academic year 2018-2019

"Lucian Blaga" University of Sibiu

Faculty of Sciences

Domain: Environmental Science

Programme of study: **Ecology and Environmental Protection**

Graduate's title: Bachelor Degree in Environmental Science, Programme of study: Ecology and Environmental Protection

Studies duration: 3 years

Education form: full time

## I. Requirements for the Bachelor Diploma:

- 180 credits for compulsory and optional disciplines;
- 10 credits for the Bachelor degree examination;
- passing the discipline Physical education (4 semesters)

## II. Structure of academic year (in weeks)

	Teaching activities		Exam session			Summer practice
	Sem. I	Sem. II	Winter	Summer	Reexaminations	
1st year	14 weeks	14 weeks	3 weeks	3 weeks	2 weeks	2 weeks
2nd year	14 weeks	14 weeks	3 weeks	3 weeks	2 weeks	2 weeks
3rd year	14 weeks	12 weeks	3 weeks	3 weeks	2 weeks	-

## III. Number of hours per week

Year	Semester I	Semester II
I	22 hours	22 hours
II	22 hours	22 hours
III	22 hours	22 hours

## IV. Choosing the optional disciplines

The optional disciplines are included in the 3th, 4th, 5th and 6th semester (2nd and 3rd year).

It is mandatory to choose one optional course in the 3th semester, two optional courses in the 4th and three optional courses in the 5th and 6th semesters.

It is possible to choose more optional disciplines and register them in the transcript as facultative disciplines.

## V. Conditions for promoting an academic year. Conditions for registering in the next year of study.

### Conditions of re-registering

In order to promote the 1st year of study, the student must have a minimum of 30 credits. In order to register in the 3rd year of study the student must accumulate 60 credits from the 1st year and minimum 30 credits from the 2nd year for compulsory and optional disciplines.

Registering in the following year is done according to the regulations from the Study contract concluded between the student and the university/faculty.

Students can take a budgeted position according to the annual rankings based on their individual performance.

The expelled students may be re-registered in the same year of study with charge.

## VI. The Bachelor degree exam

1. The period for elaborating the bachelor degree thesis: semesters 4-6;
2. The period for the bachelor degree paper's completion: June
3. The period for taking the bachelor degree exam: June-July
  - a) the testing of fundamental and specialty knowledge 5 credits;
  - b) the elaboration and defence of bachelor degree thesis 5 credits.

## VII. Competences following graduation

- Specialists in environmental protection agencies, public administration, consulting companies, laboratories of environment analysis, administrations of protected areas, research.
- Teachers in secondary schools and highschoools

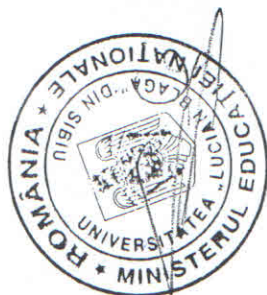
## VIII. Further professional development: master and doctoral studies.

## 1<sup>st</sup> YEAR

No. crt.	Obligatory disciplines	Code discipline	Semester I					Semester II				
			C	S	L	Form of examination	Credits no.	C	S	L	Form of examination	Credits no.
1	Plant biology	380618F01I001	2	-	2	E1	5	-	-	-	-	-
2	Animal biology	380618F01I002	2	-	2	E1	5	-	-	-	-	-
3	Geomorphology with elements of geology	380618F01I003	2	-	2	E1	5	-	-	-	-	-
4	General physics	380618C01I004	2	-	2	E1	5	-	-	-	-	-
5	General chemistry	380618C01I005	1	1	1	E1	4	-	-	-	-	-
6	Mathematics applied in ecology	380618C01I006	1	1	-	C1	3	-	-	-	-	-
7	Foreign language 1	380618C01I007	-	1	-	C1	3	-	-	-	-	-
8	Physical education 1	380618C01I008	-	1	-	V1*	1	-	-	-	-	-
9	Systematics of phanerogams	380618S02I009	-	-	-	-	-	2	-	2	E2	5
10	Invertebrate biology	380618F02I010	-	-	-	-	-	2	-	2	E2	5
11	General ecology	380618F02I011	-	-	-	-	-	2	1	1	E2	4
12	Environmental chemistry	380618F02I012	-	-	-	-	-	2	-	1	E2	3
13	Hydrology	380618F02I013	-	-	-	-	-	2	1	1	E2	4
14	Computer operation	380618C02I014	-	-	-	-	-	-	-	2	C2	3
15	Foreign language 2	380618C02I015	-	-	-	-	-	-	1	-	C2	3
16	Physical education 2	380618C02I016	-	-	-	-	-	-	1	-	V2*	1
17	Practical training 1 14 days x 6 hours = 84 hours	380618S02I017	-	-	-	-	-	-	-	-	C2	3
Total obligatory hours per week			10	3	9	5E2C1V	30+1	10	3	9	5E3C1V	30+1
			22					22				
<b>Facultative courses</b>												
18	Human anatomy and hygiene	380618F02F018	-	-	-	-	-	2	-	2	C2	3
19	Entrepreneurial education	380618F02F019	-	-	-	-	-	2	2	-	C2	3
Total facultative hours per week								4	2	2	2C	6
								8				

\* The discipline **Physical education** is evaluated with ADMITTED/REJECTED

Rector,  
Prof. PhD eng. Ioan Bondrea



Dean,  
Assoc. prof. PhD. Angela Bănăduc

Head of Department,  
Lect. PhD. Voichița Gheoca

2<sup>nd</sup> YEAR

No. crt.	Obligatory disciplines	Code discipline	Semester III					Semester IV				
			C	S	L	Form of examination	Credits no.	C	S	L	Form of examination	Credits no.
20	<i>Plant ecophysiology</i>	380618S03I020	2	-	2	E3	5	-	-	-	-	-
21	<i>Vertebrate systematic and biology</i>	380618F03I021	2	-	2	E3	5	-	-	-	-	-
22	<i>Population ecology</i>	380618S03I022	2	1	1	E3	5	-	-	-	-	-
23	<i>Meteorology and climatology</i>	380618F03I023	2	1	1	C3	5	-	-	-	-	-
24	<i>Biochemistry</i>	380618F03I024	2	-	1	C3	4	-	-	-	-	-
25	<i>Foreign language 3</i>	380618C03I025	-	1	-	C3	3	-	-	-	-	-
26	<i>Physical education 3</i>	380618C03I026	-	1	-	V3*	1	-	-	-	-	-
27	<i>Animal ecophysiology</i>	380618S04I027	-	-	-	-	-	2	-	2	E4	4
28	<i>Hydrobiology</i>	380618S04I028	-	-	-	-	-	2	-	2	E4	5
29	<i>Ecosystems: structure and functions</i>	380618S04I029	-	-	-	-	-	2	1	1	E4	5
30	<i>Fundamentals of genetics</i>	380618F04I030	-	-	-	-	-	2	1	1	E4	4
31	<i>Foreign language 4</i>	380618C04I031	-	-	-	-	-	-	1	-	C4	3
32	<i>Physical education 4</i>	380618C04I032	-	-	-	-	-	-	1	-	V4*	1
33	<i>Practical training 2 14 days x 6 hours = 84 hours</i>	380618S04I033	-	-	-	-	-	-	-	-	C4	3
	<i>Optional course 1</i>		1	1	-	C3	3	-	-	-	-	-
	<i>Optional course 2</i>		-	-	-	-	-	1	-	1	C4	3
	<i>Optional course 3</i>		-	-	-	-	-	1	-	2	C4	3
Total obligatory hours per week			11	4	7	3E4CIV	30+1	10	3	9	4E4CIV	30+1
<b>Optional courses</b>												
Optional course 1												
34	<i>Ecotoxicology</i>	380618F03O034	1	1	-	C3	3	-	-	-	-	-
35	<i>Bioproductivity</i>	380618F03O035	1	1	-	C3	3	-	-	-	-	-
Optional course 2												
36	<i>Insect ecology</i>	380618S04O036	-	-	-	-	-	1	-	1	C4	3
37	<i>Mountain fauna</i>	380618S04O037	-	-	-	-	-	1	-	1	C4	3
Optional course 3												
38	<i>Soil science</i>	380618F04O038	-	-	-	-	-	1	-	2	C4	3
39	<i>Environmental geography</i>	380618F04O039	-	-	-	-	-	1	-	2	C4	3
40	<i>Introduction in GIS</i>	380618F04O040	-	-	-	-	-	1	-	2	C4	3
<b>Facultative courses</b>												
41	<i>Ethics and environmental education</i>	380608F03F041	1	1	-	C3	3	-	-	-	-	-
42	<i>History of ecology</i>	380618F04F042	-	-	-	-	-	1	1	-	C4	3
43	<i>Data bases</i>	380618C03F043	2	-	2	C3	3	-	-	-	-	-
44	<i>Scientific and professional writing and communication</i>	380618C03F044	-	2	-	C3	3	-	-	-	-	-
Total facultative hours per week			3	3	2	3C	9	1	1	-	1C	3

\* The discipline **Physical education** is evaluated with ADMITTED/REJECTED

Rector,  
Prof. PhD. Eng. Oana Bondrea



Dean,  
Assoc. prof. PhD. Angela Bănaduc

Head of Department,  
Lect. PhD. Voichița Gheoca

### 3<sup>rd</sup> YEAR

No. crt.	Obligatory disciplines	Code discipline	Semester V					Semester VI				
			C	S	L	Form of examination	Credits no.	C	S	L	Form of examination	Credits no.
45	<i>Phytosociology and the vegetation of Romania</i>	380618S05I045	2	1	1	E5	5	-	-	-	-	-
46	<i>Ecological processes modelling</i>	380618S05I046	2	-	2	E5	5	-	-	-	-	-
47	<i>Degradation and protection of environment</i>	380618F05I047	2	1	1	E5	5	-	-	-	-	-
48	<i>Human ecology</i>	380618S06I048	-	-	-	-	-	2	1	-	C6	4
49	<i>Biodiversity management</i>	380618S06I049	-	-	-	-	-	2	1	1	E6	4
50	<i>Ecological monitoring</i>	380618S06I050	-	-	-	-	-	2	1	1	E6	4
51	<i>Microbiology</i>	380618S06I051	-	-	-	-	-	2	-	1	E6	3
52	<i>Practice for bachelor degree thesis elaboration, 14 days x 6 hours = 84 hours</i>	380618S06I052	-	-	-	-	-	-	-	-	C6	3
	<i>Optional course 4</i>		2	1	-	C5	5	-	-	-	-	-
	<i>Optional course 5</i>		2	1	1	C5	5	-	-	-	-	-
	<i>Optional course 6</i>		2	1	-	C5	5	-	-	-	-	-
	<i>Optional course 7</i>		-	-	-	-	-	1	1	-	C6	4
	<i>Optional course 8</i>		-	-	-	-	-	1	-	1	C6	4
	<i>Optional course 9</i>		-	-	-	-	-	2	2	-	C6	4
Total compulsory hours per week			12	5	5	3E3C	30	12	6	4	4E5C	30
<b>Bachelor degree examination</b>												
Evaluation of fundamental and specialty knowledge – part I			-	-	-	-	-	-	-	-	-	5
Elaboration and defence of bachelor degree thesis – part II			-	-	-	-	-	-	-	-	-	5
<b>Optional courses</b>												
Optional course 4												
53	<i>Ethology</i>	380618S05O053	2	1	-	C5	5	-	-	-	-	-
54	<i>Evolutionism</i>	380618S05O054	2	1	-	C5	5	-	-	-	-	-
Optional course 5												
55	<i>Forest ecology</i>	380618F05I055	2	1	1	C5	5	-	-	-	-	-
56	<i>Biogeography</i>	380618F05I056	2	2	-	C5	5	-	-	-	-	-
Optional course 6												
57	<i>Ecological genetics</i>	380618S05O057	2	1	-	C5	5	-	-	-	-	-
58	<i>Biogeochemical cycles</i>	380618S05O058	2	1	-	C5	5	-	-	-	-	-
Optional course 7												
59	<i>Waste management</i>	380618S06O059	-	-	-	-	-	1	1	-	C6	4
60	<i>Environmental protection technologies</i>	380618F06O060	-	-	-	-	-	1	1	-	C6	4
61	<i>Legislation, policy and environmental strategies</i>	380618F06O061	-	-	-	-	-	1	1	-	C6	4
62	<i>Ethics and academic integrity</i>	380618S06O062	-	-	-	-	-	1	1	-	C6	4
Optional course 8												
63	<i>Parasitology</i>	380618S06O063	-	-	-	-	-	1	-	1	C6	4
64	<i>Ornithology</i>	380618S06O064	-	-	-	-	-	1	-	1	C6	4
Optional course 9												
65	<i>Human general geography</i>	380618F06O065	-	-	-	-	-	2	2	-	C6	4
66	<i>Global environmental changes</i>	380618S06O066	-	-	-	-	-	2	2	-	C6	4
67	<i>Environmental economy</i>	380618F06O067	-	-	-	-	-	2	2	-	C6	4



Prof. PhD. Ing. Ioan Bănuț

Dean,  
Assoc. prof. PhD. Angela Bănăduc

Head of Department,  
Lect. PhD. Voichița Gheoca

Facultative courses												
68	Integrated pest control	380608S05F068	1	1	-	C5	3					
69	Impact studies drafting methodology	380608S06F069	-	-	-	-	-	1	1	-	C6	3
Total facultative hours per week			1	1	-	1C	3	1	1	-	1C	3
			2					2				

### IX. Synthetic situation of the disciplines, number of hours and their weight in the educational plan

Total of disciplines in the educational plan = 69

Total of disciplines (obligatory and optional) for the credits achievement = 48

Total hours: 1888 hours (including practice for the elaboration of the bachelor degree thesis) + 168 hours for practical training = 2056 hours

The ratio between the course hours and the applicative activities (seminar and laboratory) hours:  $900/904 = 0,996$  ( $900/1156 = 77,9$  including the practical training and practice for the elaboration of the bachelor degree thesis)

The percentage of study subjects by formative category

Discipline type	Optionality	Number	Total (%)
Fundamental disciplines	compulsory	12	20 (40%)
	optional	4	
	facultative	4	
Specialization disciplines	compulsory	15	22 (44%)
	optional	5	
	facultative	2	
Complementary disciplines	compulsory	6	8 (16%)
	optional	0	
	facultative	2	

The percentage of didactic activity hours considering the optionality

Subject type	Nr	%
Compulsory disciplines	1498*	81,1%
Optional disciplines	350	18,9%
Facultative disciplines	308	

\* + practical training and practice for the elaboration of the bachelor degree thesis

Rector,  
Prof. PhD eng. Ioan Boudrea



Decan,  
Assoc. prof. PhD. Angela Bănăduc

Head of Department,  
Lect. PhD. Voichița Gheoca