SYLLABUS

Academic year 2024 - 2025

1. Details about the program

1.1. Higher Education Institution	**„Lucian Blaga" University of Sibiu**
1.2. Faculty	Faculty of Sciences
1.3. Department	Environmental Sciences, Physics, Physical Education and Sports
1.4. Field of study	BIOLOGY
1.5. Study cycle[1]	BACHELOR
1.6. Specialization	BIOLOGY

2. Details about the course

2.1. Course name	**Mountain fauna**			Code	FSTI.MFE.BIOEN.L.SA.4.1020.E-5.10
2.2. Course coordinator	Lecturer Ioan Tăușan PhD				
2.3. Practical activity coordinator	Lecturer Ioan Tăușan PhD				
2.4. Year of study[2]	1	2.5. Semester[3]	2	2.6. Type of assessment[4]	E
2.7. Type of discipline[5]	O	2.8. Formative category of the discipline[6]			F

3. Estimated total time

3.1. Proportion of the discipline within the curriculum – *number of hours / week*					
3.1.a.Lecture	3.1.b. Seminar	3.1.c. Laboratory	3.1.d. Project	3.1.e Other	Total
1		2			**3**
3.2. Proportion of the discipline within the curriculum – *number of hours / week*					
3.2.a.Lecture	3.2.b. Seminar	3.2.c. Laboratory	3.2.d. Project	3.2.e Other	Total[7]
14		28			**42**

Allocation of time budget for individual study [8]	**No. hours**
Study based on textbook, lecture notes, bibliography and course notes	28
Additional research: library, specialized electronic platforms and field or on-site investigation and documentation	25
Preparing for the seminar / laboratorires, home assignments, reports, portfolios and essays	20
Tutoring[9]	6
Examinations[10]	4

3.3. Total number of hours for individual study [11] ***(NOSI$_{sem}$)***	**83**
3.4. Total number of hours in the curriculum (*NOAD$_{sem}$*)	**42**
3.5. Total number of hours per semester[12] **(*NOAD$_{sem}$* + *NOSI$_{sem}$*)**	**125**
3.6. No of hours / ECTS	**42**
3.7. Number of credits[13]	**5**

4. Prerequisites (if applicable)

4.1. Prerequisite courses for enrollment to this subject (from the curriculum) [14]	Invertebrate zoology, Vertebrate zoology
4.2. Competencies	

5. Requirements (wherever applicable)

5.1. Lecture organization and structure[15]	Video Projector
5.2. Organization and structure of practical activities (lab/sem/pr/other) [16]	

6. Specific competencies[17]

Number of credits assigned to the discipline[18]			Distribution of credits according to competencies[19]
6.1. Professional competencies	CP1	Basic general knowledge for understanding the fundamental aspects specific to mountain fauna	1
	CP2	Knowledge and appropriate use of specialized notions and terms	0,5
	CP3	Defining / naming concepts, terms, relationships, processes	0,5
	CP4	Explaining and interpreting the processes and theoretical and practical ideas of the discipline	0,5
	CP5	Generalization, specialization, integration of some domains	0,5
	CP6	The ability to analyze and synthesize	0,5
6.2. Transversal competencies	CT1	The ability to collaborate with specialists from other fields	0,5
	CT2	Demonstrating positive and responsible attitudes towards the scientific field	0,5
	CT3	Participation in one's own professional development, involvement in scientific activities related to the discipline	0,5

7. Course objectives (reflected by the framework of specific competencies)

7.1. General objective	Understanding the notions related to the mountain fauna, the specifics of the fauna in the Carpathian area, with the rigor and diversity adaptations and the anthropogenic impact
7.2. Specific objectives	.

8. Course description

8.1. Lecture[20]	**Teaching methods**[21]	**No. of hours**
Course 1 Introductory notions - Fauna; definition, elements, genesis, distribution	Interactive lecture, explanation, conversation, problematisation	2
Course 2 The mountain as a habitat for animals - fundamental limiting factors - layering of vegetation - adaptations of animals to life in mountain regions	Interactive lecture, explanation, conversation, problematisation	2
Course 3 Degradation of the mountain biome and consequences for the fauna	Interactive lecture, explanation, conversation, problematisation	2
Course 4 Percilitate species in the mountain area, endemisms and rare species	Interactive lecture, explanation, conversation, problematisation	2
Course 5 Protection of mountain habitats	Interactive lecture, explanation, conversation, problematisation	2
Course 6 Mountain fauna in the world and in Romania	Interactive lecture, explanation, conversation, problematisation	2
Course 7 The altitudinal stratification of the mountain according to the fauna. The specificity of the fauna of the Carpathians.	Interactive lecture, explanation, conversation, problematisation	2
	Total number of lecture hours:	**14**

8.2. Practical activities (8.2.a. Seminar[22]/ 8.2.b. Laboratory[23]/ 8.2.c. Project[24] / 8.2.d. Other practical activities[25])	**Teaching methods**	**No. of hours**
Lab.1 First aid measures on the mountain	Explanation of working methods, material examination, discussion, soft-ware applications	2
Lab. 2 Specific equipment in mountain tours	Explanation of working methods, material examination, discussion, soft-ware applications	2
Lab. 3-4 Methods of collecting invertebrates specific to the mountain area	Explanation of working methods, material examination, discussion, soft-ware applications	10
Lab.5 – 6 Methods of collecting vertebrates specific to the mountain area	Explanation of working methods, material examination, discussion, soft-ware applications	10
Lab. 7 Project presentation	Explanation of working methods, material examination, discussion, soft-ware applications	4
	Total number of hours: seminar/laboratory	**28**

9. Bibliography

9.1. Recommended references	Sîrbu, I., Benedek A.M 2001 - Valea Lotrioarei : ghid de ecologie montană. Editura Mira Design
	Drăgulescu, C., Schneider, E., Benedek, A., 2007 - Fitodiversitatea habitatelor din Carpaţi. Editura Universităţii "Lucian Blaga".
9.2. Additional references	Sîrbu, I., Benedek, I., 2001 -Cartea muntelui : manual pentru tineri. Editura Mira Design
	Sîrbu, I., Benedek, I., 2012 – Ecologia practică. Editura Universităţii "Lucian Blaga
	Iorgu I. Ș. (eds.) 2015 - Ghid sintetic pentru monitorizarea speciilor de nevertebrate de interes comunitar din România. ISBN: 978-606-92462-3-8, București, 159pp.
	Ionescu, O., Ionescu, G, Adamescu, M., Cotovelea, A., 2013 - Ghid sintetic de monitorizare pentru speciile de mamifere de interes comunitar din România. Editura Silvică
	Ratcliffe, D. A. (2010). *Bird life of mountain and upland*. Cambridge University Press.

10. Correlating the course description with the expectations and requirements of representatives of the epistemic community, professional associations and significant employers and stakeholders related to the study program and the specific area[26]

The professional competences obtained by the students through the course hours and practical applications and the elaboration of the homework for this discipline, are in accordance with the requirements of the professional associates in the field of ecology.

11. Evaluare

Type of activity	11.1 Assessment criteria	11.2 Assessment methods		11.3 Percentage of the final grade	Notes.[27]
11.4a Exam / Coloquium	• Theoretical and practical knowledge (quantity, correctness,accuracy)	Midterm / ongoing assignments[28]:	-	50% (minimum 5)	
		Home assignments:	-		
		Other activities[29]:	-		
		Final assessment:	60%		
11.4b Seminar	• Frequency/relevance of contributions or answers	-		-	
11.4c Laboratory	• Knowledge of equipment, methods of using specific instruments and tools; assessment of tools or achievements, processing and interpretation of results	• Oral examination • Written questionnaire • Laboratory notebook, experimental work, scientific papers, etc. • Practical demonstrations		25% (minimum 5)	
11.4d Project	• Quality of achieved project, accuracy of project documentation, rationale and evidence of selected solutions	-		25% (minimum 5)	
11.5 Minimum performance standard[30]					

The course description includes components adapted to SEN (Special Educational Needs) persons, according to their type and degree, at all curricular elements and dimensions (competencies, objectives, course description, teaching methods, alternative assessment), in view of providing and ensuring equitable and fair opportunities to academic education for all students, with special attention to special educational needs.

Date of submission: 09 / 09 / 2024

Date of approval in the Department: 17 / 09 / 2024

	Degree, titlle, first name, surname	**Signature**
Course coordinator	Lecturer Ioan Tăușan PhD	
Study program coordinator	Assoc. prof. Ana-Maria Benedek-Sîrbu, PhD	
Director Department	Lecturer Ioan Tăușan PhD	

[1] *Licență / Master*
[2] *1-4 pentru licență, 1-2 pentru master*
[3] *1-8 pentru licență, 1-3 pentru master*
[4] *Examen, colocviu sau VP A/R – din planul de învățământ*
[5] *Regim disciplină: O=Disciplină obligatorie; A=Disciplină opțională; U=Facultativă*
[6] *Categoria formativă: S=Specialitate; F=Fundamentală; C=Complementară; I=Asistată integral; P=Asistată parțial; N=Neasistată*
[7] *Este egal cu 14 săptămâni x numărul de ore de la punctul 3.1 (similar pentru 3.2.a.b.c.d.e.)*
[8] *Liniile de mai jos se referă la studiul individual; totalul se completează la punctul 3.37.*
[9] *Între 7 și 14 ore*
[10] *Între 2 și 6 ore*
[11] *Suma valorilor de pe liniile anterioare, care se referă la studiul individual.*
[12] *Suma (3.5.) dintre numărul de ore de activitate didactică directă (NOAD) și numărul de ore de studiu individual (NOSI) trebuie să fie egală cu numărul de credite alocat disciplinei (punctul 3.7) x nr. ore pe credit (3.6.)*
[13] *Numărul de credit se calculează după formula următoare și se rotunjește la valori vecine întregi (fie prin micșorare fie prin majorare*

$$Nr.credite = \frac{NOCpSpD \times C_C + NOApSpD \times C_A}{TOCpSdP \times C_C + TOApSdP \times C_A} \times 30\ credite$$

Unde:

- NOCpSpD = Număr ore curs/săptămână/disciplina pentru care se calculează creditele
- NOApSpD = Număr ore aplicații (sem./lab./pro.)/săptămână/disciplina pentru care se calculează creditele
- TOCpSdP = Număr total ore curs/săptămână din plan
- TOApSdP = Număr total ore aplicații (sem./lab./pro.)/săptămână din plan
- C_C/C_A = Coeficienți curs/aplicații calculate conform tabelului

Coeficienți	Curs	Aplicații (S/L/P)
Licență	2	1
Master	2,5	1,5
Licență lb. străină	2,5	1,25

[14] *Se menționează disciplinele obligatoriu a fi promovate anterior sau echivalente*
[15] *Tablă, videoproiector, flipchart, materiale didactice specifice, platforme on-line etc.*
[16] *Tehnică de calcul, pachete software, standuri experimentale, platforme on-line etc.*
[17] *Competențele din Grilele aferente descrierii programului de studii, adaptate la specificul disciplinei*
[18] *Din planul de învățământ*
[19] *Creditele alocate disciplinei se distribuie pe competențe profesionale și transversale în funcție de specificul disciplinei*
[20] *Titluri de capitole și paragrafe*
[21] *Expunere, prelegere, prezentare la tablă a problematicii studiate, utilizare videoproiector, discuții cu studenții (pentru fiecare capitol, dacă este cazul)*
[22] *Discuții, dezbateri, prezentare și/sau analiză de lucrări, rezolvare de exerciții și probleme etc.*
[23] *Demonstrație practică, exercițiu, experiment etc.*
[24] *Studiu de caz, demonstrație, exercițiu, analiza erorilor etc*.
[25] *Alte tipuri de activități practice specifice*
[26] *Legătura cu alte discipline, utilitatea disciplinei pe piața muncii*
[27] *CPE – condiționează participarea la examen; nCPE – nu condiționează participarea la examen; CEF - condiționează evaluarea finală; N/A – nu se aplică*
[28] *Se va preciza numărul de teste și săptămânile în care vor fi susținute.*
[29] *Cercuri științifice, concursuri profesionale etc.*
[30] *Se particularizează la specificul disciplinei standardul minim de performanță din grila de competențe a programului de studii, dacă este cazul.*