

COURSE SYLLABUS

Academic year 2025 - 2026

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 (in english)

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	2	2.5. Semester ³	4
2.6. Type of assessment ⁴	E		
2.7. Type of discipline ⁵	A	2.8. Formative category of the discipline ⁶	S

3. Estimated total time

3.1. Proportion of the discipline within the curriculum – <i>number of hours / week</i>					
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 – <i>number of hours / week</i>					
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 study⁸					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 study¹¹ (NOS_{Isem})					83
3.4. Total number of hours in the curriculum ($NOAD_{sem}$)					42
3.5. Total number of hours per semester¹² ($NOAD_{sem} + NOS_{Isem}$)					125
3.6. No of hours / ECTS					25
3.7. Number of credits¹³					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. Learning outcomes ¹⁷

Number of credits assigned to the discipline: 5				
Learning outcomes				Credit allocation based on learning outcomes
No.	Knowledge	Aptitudes	Responsibility and autonomy	
LO 1	The student/graduate describes, defines, and discusses fundamental principles in the field of biology, as well as interdisciplinary aspects (e.g., evolutionism, general ecology, plant physiology, animal physiology).	The student/graduate applies working methods using modern instruments/equipment and classical laboratory techniques to perform, design experiments, record and analyze appropriately the results obtained.	The student/graduate uses their own knowledge and experience to develop the scientific community and society in general by participating in professional and/or community activities	1.5
LO 2	The student/graduate correctly uses and explains the specific terminology used in the field of Biology, the main concepts and laws, the characteristics of biological systems from the perspective of the principles of organization and functioning of living matter.	The student/graduate defines, describes, discusses/presents the major concepts in the field of Biology.	The student/graduate demonstrates responsibility and autonomy in the use of scientific knowledge in the field of Biology, by conducting research, developing or improving concepts, theories, operational methods or biotechnological products, making ethical and professional decisions within the scientific process.	1.5
LO 3	The student/graduate defines, explains, and exemplifies basic and modern experimental techniques	The student/graduate uses, investigates, and critically analyzes the principles of operation and use of equipment/instruments, techniques/working methods	The student/graduate applies the knowledge learned in other courses	2

	in the analysis and characterization of biological systems, records and presents experimental results, and explains the principles of scientific methods.	for investigating the functioning of biological systems.	to explain the interactions of organisms with the environment.	
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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 ¹⁸	Teaching methods ¹⁹	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, explanations, conversation, problematisation	2
Course 3 Degradation of the mountain biome and consequences for the fauna	Interactive lecture, explanation, conversation, problematisation	2
Course 4 Endangered 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 ²⁰ / 8.2.b. Laboratory ²¹ / 8.2.c. Project ²² / 8.2.d. Other practical activities ²³)	Teaching methods	No. of hours
Lab.1 First aid measures on the mountain	Explanation of working methods, material examination, discussion	2
Lab. 2 Specific equipment in mountain campagins	Explanation of working methods, material examination, discussion	2
Lab. 3-7 Methods of collecting invertebrates specific to the mountain area – Field application	Explanation of working methods, material examination, discussion, pratical demonstration	10
Lab.5 – 12 Methods of collecting vertebrates specific to the mountain area – Field application	Explanation of working methods, material examination, discussion, pratical demonstration	10
Lab. 13-14 Mountain fauna conservation issues – Case studies	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 Carpați. Editura Universității "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 Universității "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). <i>Bird life of mountain and upland</i> . 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 area²⁴

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.
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11. Evaluation

Type of activity	11.1 Assessment criteria	11.2 Assessment methods		11.3 Percentage of the final grade	Notes. ²⁵
11.4a Exam / Coloquium	• Theoretical and practical knowledge (quantity, correctness, accuracy)	Midterm / ongoing assignments ²⁶ :	-	50% (minimum 5)	
		Home assignments:	-		

		Other activities ²⁷ :	-		
		Final assessment:	100%		
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 ²⁸					

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 / 2025

Date of approval in the Department: 17 / 09 / 2025

	Degree, title, first name, surname	Signature
Course coordinator	Lecturer Ioan Tăușan, PhD	
Study program coordinator	Assoc. prof. Ana-Maria Benedek-Sîrbu, PhD	
Head of 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 alocate 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)

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

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 The learning outcomes will be stated in accordance with the specific standards of the ARACIS expert commissions (<https://www.aracis.ro/ghiduri/>)

¹⁸ Titluri de capitole și paragrafe

¹⁹ Expunere, prelegere, prezentare la tablă a problematicei studiate, utilizare videoproiector, discuții cu studenții (pentru fiecare capitol, dacă este cazul)

²⁰ Discuții, dezbateri, prezentare și/sau analiză de lucrări, rezolvare de exerciții și probleme etc.

²¹ Demonstrație practică, exercițiu, experiment etc.

²² Studiu de caz, demonstrație, exercițiu, analiza erorilor etc.

²³ Alte tipuri de activități practice specifice

²⁴ Legătura cu alte discipline, utilitatea disciplinei pe piața muncii

²⁵ CPE – condiționează participarea la examen; nCPE – nu condiționează participarea la examen; CEF - condiționează evaluarea finală; N/A – nu se aplică

²⁶ Se va preciza numărul de teste și săptămânile în care vor fi susținute.

²⁷ Cercuri științifice, concursuri profesionale etc.

²⁸ Se particularizează la specificul disciplinei standardul minim de performanță din grila de competențe a programului de studii, dacă este cazul.