

SYLLABUS

Academic year 2023 - 2024

1. Details about the program

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|-----------------------------------|--|
| 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 | Ethology | Code | FSTI.MFE.BIOEN.L.SO.5.2100.E-4.2 |
| 2.2. Course coordinator | Assoc. Prof. Ioan Sîrbu, PhD | | |
| 2.3. Practical activity coordinator | Assoc. Prof. Ioan Sîrbu, PhD | | |
| 2.4. Year of study ² | 3 | 2.5. Semester ³ | 5 |
| 2.6. Type of assessment ⁴ | | | C |
| 2.7. Type of discipline ⁵ | O | 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 |
| 2 | - | 1 | - | - | 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 |
| 28 | - | 14 | - | - | 42 |
| Allocation of time budget for individual study⁸ | | | | | No. hours |
| Study based on textbook, lecture notes, bibliography and course notes | | | | | 14 |
| Additional research: library, specialized electronic platforms and field or on-site investigation and documentation | | | | | 15 |
| Preparing for the seminar / laboratorires, home assignments, reports, portfolios and essays | | | | | 15 |
| Tutoring ⁹ | | | | | 10 |
| Examinations ¹⁰ | | | | | 4 |
| 3.3. Total number of hours for individual study¹¹ (NOSI_{sem}) | | | | | 58 |
| 3.4. Total number of hours in the curriculum (NOAD_{sem}) | | | | | 42 |
| 3.5. Total number of hours per semester¹² (NOAD_{sem} + NOSI_{sem}) | | | | | 100 |
| 3.6. No of hours / ECTS | | | | | 25 |
| 3.7. Number of credits¹³ | | | | | 4 |

4. Prerequisites (if applicable)

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| 4.1. Prerequisite courses for enrollment to this subject (from the curriculum) ¹⁴ | |
| 4.2. Competencies | |

5. Requirements (wherever applicable)

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

6. Specific competencies¹⁷

| | | Number of credits assigned to the discipline ¹⁸ | 4 | Distribution of credits according to competencies ¹⁹ |
|---------------------------------------|-----|---|---|---|
| 6.1. Professional competencies | CP1 | Define the basic concepts, theories and methods in the field of ethology in order to facilitate the connections required in the field of biology | | 1 |
| | CP2 | Use of logical connections with other related basic scientific fields | | 0.5 |
| | CP3 | Analyse and communicate scientific information. | | 0.5 |
| | CP4 | Use of specialist language and academic style | | 1 |
| 6.2. Transversal competencies | CT1 | Implementation of effective and responsible work strategies, punctuality, reliability and personal responsibility, based on principles, norms and values of professional ethics code. | | 0.25 |
| | CT2 | Efficient work in multidisciplinary team on different hierarchical levels | | 0.25 |
| | CT3 | Documentation in English language for professional and personal development through training and effective adaptation to new scientific discoveries | | 0.5 |

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

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|--------------------------|---|
| 7.1. General objective | Introduction to the science of animal behaviour |
| 7.2. Specific objectives | The study of behaviour as an adaptative factor, the knowledge of ethological analysis, of the mechanisms involved in different types of behaviours and their significance. Knowledge of the adaptative functions of behaviour, of the evolutionary significance of different behaviours. Understanding the biological basis of human behaviour. |

8. Course description

| 8.1. Lecture ²⁰ | | Teaching methods ²¹ | No. of hours |
|----------------------------|------------------------------------|--|--------------|
| Lecture 1 | Definition and history of ethology | Interactive lecture, explanation, conversation, problematisation | 2 |

| | | | |
|---------------|---|--|--|
| Lecture 2 | Development and branches of ethology | Interactive lecture, explanation, conversation, problematisation | 2 |
| Lecture 3 | Causes of behaviours - motivations | Interactive lecture, explanation, conversation, problematisation | 2 |
| Lecture 4-5 | Potential, effective, key and triggering stimuli | Interactive lecture, explanation, conversation, problematisation | 4 |
| Lecture 6-7 | Triggering mechanisms of behaviours | Interactive lecture, explanation, conversation, problematisation | 4 |
| Lecture 8 | Substitution, ambivalent and reorientation behaviours | Interactive lecture, explanation, conversation, problematisation | 2 |
| Lecture 9 | Learning; ontogenetic development of behaviours | Interactive lecture, explanation, conversation, problematisation | 2 |
| Lecture 10-11 | The adaptative character of behaviours | Interactive lecture, explanation, conversation, problematisation | 4 |
| Lecture 12-13 | Behaviour phylogeny and evolution | Interactive lecture, explanation, conversation, problematisation | 4 |
| Lecture 14 | Biological causes of pathological behaviours | Interactive lecture, explanation, conversation, problematisation | 2 |
| | | | Total number of lecture hours: 28 |

| 8.2. Practical activities (8.2.a. Seminar ²²) | Teaching methods | No. of hours |
|---|--|--------------|
| Sem. 1. Methods used in ethological studies. Behaviour description and analysis | Interactive lecture with Power Point, explanation, conversation, problematisation, dialogue. | 2 |
| Sem. 2. Ethograms construction and interpretation | Interactive lecture with Power Point, explanation, conversation, problematisation, dialogue. | 2 |
| Sem. 3. Feeding and defence behaviours | Interactive lecture with Power Point, explanation, conversation, problematisation, dialogue. | 2 |
| Sem. 4. Reproductive behaviours. Parental care | Interactive lecture with Power Point, explanation, conversation, problematisation, dialogue. | 2 |
| Sem. 5. Social behaviours | Interactive lecture with Power Point, explanation, conversation, problematisation, dialogue. | 2 |
| Sem. 6-7. Human behaviour biology | Interactive lecture with Power Point, explanation, conversation, problematisation, dialogue. | 4 |
| Total number of hours: seminar | | 14 |

9. Bibliography

| | |
|-----------------------------|---|
| 9.1. Recommended references | Krebs, J.R., Davies, N.B., 1993 - An Introduction to Behavioural Ecology. Oxford, Blackwell Scientific Publications, London, Edinburgh, Boston, Melbourne, Paris, Berlin, Vienna. |
| | Pease, A., Pease, B., 2004 - The definitive book of body language. Pease International, www.peaseinternational.com. |
| 9.2. Additional references | Ruhela, A., Sinha, M., 2010 - Recent Trends in Animal Behaviour. Oxford Book Company, Jaipur. |
| | Slater, P.J.B. (Editor), 1989 - Encyclopedia of Animal Behaviour. Facts on File Inc., New York |

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|--|--|
| | Szekely, T., Moore, A.J., Komdeur, J., 2010 - Social Behaviour; Genes, Ecology and Evolution. Cambridge University Press. |
| | ***, 1987 - Psychology of Reproductive Behaviour; An Evolutionary Perspective. Ed. David Crews, Prentice-Hall, Inc., Englewood Cliffs, New Jersey. |

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 area²³

The course content enables students to obtain skills of understanding and reproduction of the terms, concepts and principles of ethology, gives them the ability to communicate using the specific scientific language and to interpret the observations on animal and human behaviour.

11. Evaluation

| Type of activity | 11.1 Assessment criteria | 11.2 Assessment methods | | 11.3 Percentage of the final grade | Notes. ²⁴ |
|---|--|--|------|------------------------------------|----------------------|
| 11.4a Exam / Colloquium | <ul style="list-style-type: none"> Theoretical and practical knowledge (quantity, correctness, accuracy) | Midterm / ongoing assignments ²⁵ : | % | 80% | |
| | | Home assignments: | % | | |
| | | Other activities ²⁶ : | % | | |
| | | Final assessment: | 100% | | |
| 11.4c Seminar | <ul style="list-style-type: none"> Knowledge of equipment, methods of using specific instruments and tools; assessment of tools or achievements, processing and interpretation of results | <ul style="list-style-type: none"> Written exam | | 20% | |
| 11.5 Minimum performance standard ²⁷ | | | | | |
| - | | | | | |

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: 25 / 09 / 2023

Date of approval in the Department: 19 / 10 / 2023

| | Degree, title, first name, surname | Signature |
|----------------------------------|---|-----------|
| Course coordinator | Assoc. Prof. Ioan Sîrbu, PhD | |
| Study program coordinator | Assoc. Prof. Ana-Maria Benedek-Sîrbu, PhD | |
| Director Department | Lecturer PhD. Voichița GHEOCA | |

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 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 Legătura cu alte discipline, utilitatea disciplinei pe piața muncii

²⁴ CPE – condiționează participarea la examen; nCPE – nu condiționează participarea la examen; CEF - condiționează evaluarea finală; N/A – nu se aplică

²⁵ Se va preciza numărul de teste și săptămânile în care vor fi susținute.

²⁶ Cercuri științifice, concursuri profesionale etc.

²⁷ Se particularizează la specificul disciplinei standardul minim de performanță din grila de competențe a programului de studii, dacă este cazul.