

## COURSE SYLLABUS

### 1. Data about the program

1.1 Higher education institution	Babeş-Bolyai University
1.2 Faculty	Faculty of Biology and Geology
1.3 Doctoral school	<b>Doctoral School of Integrative Biology</b>
1.4 Field of study	<b>Integrative Biology</b>
1.5 Study cycle	Doctorate
1.6 Study program / Qualification	Doctoral training / PhD in Biology

### 2. Course data

2.1 Name of discipline	Classical and modern taxonomy						
2.2 Teacher responsible for lectures	Prof. László Rákosy						
2.3 Teacher responsible for seminars	2.2 Teacher responsible for lectures		Prof. László Rákosy				
	2.3 Teacher responsible for seminars		Prof. László Rákosy				
2.4 Year of study	1	2.5 Semester	2	2.6. Type of evaluation	E	2.7 Course framework	
<b>3. Estimated total time of teaching activities (hours per semester)</b>							
3.1 Hours per week		4	Out of which: 3.1 Lectures		2	3.3 Seminars / Laboratory classes	
3.4 Total hours in the curriculum		48	Out of which: 3.5 Lectures		24	3.6 Seminars / Laboratory classes	
Allocation of study time:							Hs.
Study supported by textbooks, other course materials, recommended bibliography and personal student notes							64
Additional learning activities in the library, on specialized online platforms and in the field							64
Preparation of seminars / laboratory classes, topics, papers, portfolios and essays							38
Tutoring							34
Examinations							4
2.4 Year of study	1	2.5 Semester	2	2.6. Type of evaluation	E	2.7 Course framework	
							Opt.

### 3. Estimated total time of teaching activities (hours per semester)

3.1 Hours per week		4	Out of which: 3.2 Lectures		2	3.3 Seminars / Laboratory classes	
3.4 Total hours in the curriculum		48	Out of which: 3.5 Lectures		24	3.6 Seminars / Laboratory classes	
Allocation of study time:							Hs.
Study supported by textbooks, other course materials, recommended bibliography and personal student notes							64

Additional learning activities in the library, on specialized online platforms and in the field	64
Preparation of seminars / laboratory classes, topics, papers, portfolios and essays	38
Tutoring	34
Examinations	4
Other activities: -	0
3.7 Individual study (total hours)	204
3.8 Total hours per semester	252
3.9 Number of credits	7

#### 4. Preconditions (where applicable)

4.1 Curriculum	•
4.2 Competences	•

#### 5. Conditions (where applicable)

5.1 Conducting lectures	Classroom, equipped with laptop, video projector and suitable software, Power Point, Word, multimedia applications, Internet
5.2 Conducting seminars / laboratory classes	The submission of a report on a specific topic is a prerequisite for participation in the examination

#### 6. Specific competences acquired

<b>Professional competences</b>	C12. Knowledge and understanding of advanced concepts, theories, and methods of biology; their proper use in professional communication. -
<b>Transversal competences</b>	CT1. Ability to work in life science research teams, solving problems and decision making, organizing group activities. - Use of specific taxonomy concepts in personal research - Use of theoretical notions in solving practical issues - Efficient use of information sources (Internet portals, software applications for specialized software, databases) both in Romanian and English.

#### 7. Course objectives (based on the acquired competencies grid)

7.1 The general objective of the course	- Knowledge and understanding of the principles of classical and modern taxonomy. - Knowledge of modern methods of taxonomic study - Skills of association of different specific methods of analysis and interpretation in taxonomy
7.2 Specific objectives	- Use of specific taxonomy concepts in personal research - Use of theoretical notions in solving practical issues - Efficient use of information sources (Internet portals, software applications for specialized software, databases) both in Romanian and English.

#### 8. Content

8.1 Lectures	Teaching methods	Comments
The syllogism of current systematics and the new paradigms of taxonomy	Lecture with heuristic	2 hs
The five directions of taxonomy	conversation	2 hs
Cladistics and phenetics		2 hs
Integrative taxonomy and evolution		4 hs
The particularities of plant taxonomy		4 hs
The particularities of animal taxonomy		4 hs
8.2. Seminars		
Presentation of the seminar theme, organization in groups, distribution of the topics of the presentations.		2 hs
Individual presentations of doctoral students	Each PhD student will present a topic of their choice related to taxonomy, in accordance with their PhD topic	12 hs
<b>Bibliography for Lectures:</b>		
Campbell biology / Jane B. Reece, Noel Meyers, Lisa A. Urry, Michael L. Cain, Steven A. Wasserman, Peter V. Minorsky, Robert B. Jackson, Bernard Cooke, 2015 -Capitolul: Phylogeny and the tree of life.		
Conix S. 2018.Integrative taxonomy and the operationalization of the evolutionary independence. Eur. J. of Philosophie of Science, <b>8</b> : 587–603		
Pante E., Schoelinck C., Puillandre N. 2015.From Integrative Taxonomy to Species Description: One Stepe Beyond. Systematic Biology 64(1):152-160		
<b>Bibliography for Seminars:</b>		
Internet and bibliographic sources specific to each topic, suggested by the supervisor.		

### 9. Aligning the contents of the discipline with the expectations of the epistemic community representatives, professional associations and standard employers operating in the program field

The content of the discipline is in accordance with what is taught in other university centers in the country and in abroad.

### 10. Examination

Activity type	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Weight in the final grade
10.4 Lectures	Assessment of knowledge	Written exam	20%
10.5 Seminars / laboratory classes	Activity during seminars	Discussions, answers to questions	80%
10.6 Minimum performance standard			
Basic knowledge for obtaining the grade 5.			

Date of issue  
29.07.2024

Signature of the teacher  
responsible for lectures

Signature of the teacher  
responsible for seminars

Prof. László Rákósy

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