

# Course descriptions

## TABLE OF CONTENTS

1. N-BIGE-956/22	Advanced Genetics ( <b>state exam</b> ).....	3
2. N-BIGE-955/22	Advanced Molecular Biology ( <b>state exam</b> ).....	4
3. N-mBGE-116/22	Advanced diploma thesis seminar (1).....	5
4. N-mBGE-117/22	Advanced diploma thesis seminar (2).....	6
5. N-mBGE-103/22	Advanced genetics (1) - Gene mapping and ontogenetics.....	7
6. N-mBGE-110/22	Advanced genetics (2) - Mutagenesis and genotoxicology.....	8
7. N-mBGE-113/22	Advanced genetics (3) - Quantitative, population and behavioral genetics.....	9
8. N-mBGE-106/22	Advanced practicals in genetics (1).....	11
9. N-mBGE-115/22	Advanced seminar 1.....	12
10. N-mBGE-131/22	Animal genetics.....	13
11. N-mBGE-132/22	Applied Genetics.....	14
12. N-mCBI-127/22	Basics of Neurobiology.....	15
13. N-XXXX-005/21	Bioarchaeology.....	16
14. N-mBGE-128/22	Cell and molecular biology of the yeast.....	17
15. N-mCBI-120/22	Crystallography of Proteins and Nucleic Acids.....	18
16. N-mOBH-100/22	Defence of diploma thesis ( <b>state exam</b> ).....	19
17. N-mXCJ-078/22	Deutsch für Naturwissenschaftler A1 (začiatočníci).....	20
18. N-mXCJ-080/22	Deutsch für Naturwissenschaftler A2 (začiatočníci).....	21
19. N-mXCJ-079/22	Deutsch für Naturwissenschaftler B1 (pokročilí).....	22
20. N-mXCJ-081/22	Deutsch für Naturwissenschaftler B2 (pokročilí).....	23
21. N-mBGE-118/22	Diploma project (1).....	24
22. N-mBGE-119/22	Diploma project (2).....	25
23. N-mBGE-126/22	Diploma thesis practicals 1.....	26
24. N-mBGE-127/22	Diploma thesis practicals 2.....	27
25. N-mXCJ-076/22	EAP 1/English for Academic Purposes.....	28
26. N-mXCJ-077/22	EAP 2/English for Academic Purposes.....	29
27. N-mBGE-122/22	Excursion for Genetics.....	30
28. N-XXXX-004/21	Genetics for everyone.....	31
29. N-mCBI-119/22	Genomics.....	32
30. N-XXXX-001/21	Geography of the World in the 21.st century.....	34
31. N-XXXX-007/21	Geology in Nutshell.....	35
32. N-XXXX-009/21	Global Environmental Issues.....	36
33. N-mXXX-003/22	Green University 1.....	37
34. N-mXXX-004/22	Green University 2.....	38
35. N-mBMO-105/22	Human Molecular Genetics.....	39
36. N-BIGE-957/22	Human and animal molecular biology and genetics ( <b>state exam</b> ).....	40
37. N-XXXX-008/21	Man as a part of the nature.....	41
38. 2-AIN-501/00	Methods in Bioinformatics.....	42
39. N-mCBI-107/22	Molecular Biology of the Cell (2).....	44
40. N-mCBI-118/22	Molecular Biology of the Cell (2) - Seminar.....	45
41. N-BIGE-959/22	Molecular biology and genetics of microorganisms ( <b>state exam</b> ).....	46
42. N-mBGE-101/22	Molecular biology of the cell (1).....	47
43. N-XXXX-011/21	Perspectives in Chemistry.....	48
44. N-XXXX-010/22	Perspectives of Biochemistry.....	49
45. N-mXTV-110/22	Physical Education 10.....	50
46. N-mXTV-107/22	Physical Education 7.....	51

47. N-mXTV-108/22	Physical Education 8.....	52
48. N-mXTV-109/22	Physical Education 9.....	53
49. N-mBGE-129/22	Plant Genes Manifestations.....	54
50. N-BIGE-958/22	Plant molecular biology and genetics ( <b>state exam</b> ).....	55
51. N-XXXX-003/21	Plants known and unknown.....	56
52. N-XXXX-002/21	Practical Geography for Natural Scientists.....	57
53. N-XXXX-012/21	Practical Geology for Everyone.....	58
54. N-mBGE-107/22	Pre-diploma practice.....	59
55. N-mBGE-125/22	Pre-diploma training.....	60
56. N-mCBI-114/22	Principles of Molecular Immunology.....	61
57. N-mXTV-112/22	River rafting.....	62
58. N-mBGE-114/22	Selected topics from genetics.....	63
59. N-mBGE-104/22	Seminar 1.....	64
60. N-mBGE-105/22	Seminar 2.....	65
61. N-mBGE-100/22	Seminar from molecular biology of the cell (1).....	66
62. N-mXCJ-090/24	Slovak for Foreign Students.....	67
63. N-mBGE-120/22	Special seminar 2.....	68
64. N-mUXX-204/22	Summer Physical-Education Training.....	69
65. N-XXXX-006/21	Theory of species.....	70
66. N-mXCJ-084/22	UNICert Deutsch 1.....	71
67. N-mXCJ-085/22	UNICert Deutsch 2.....	72
68. N-mXCJ-082/22	UNICert English 1.....	73
69. N-mXCJ-083/22	UNICert English 2.....	74
70. N-mUXX-203/22	Winter Physical-Education Training.....	75
71. N-mXTV-111/22	Ďumbier mountain hiking.....	76

## STATE EXAM DESCRIPTION

<b>Academic year:</b> 2024/2025	
<b>University:</b> Comenius University Bratislava	
<b>Faculty:</b> Faculty of Natural Sciences	
<b>Course ID:</b> PriF.KGe/N-BIGE-956/22	<b>Course title:</b> Advanced Genetics
<b>Number of credits:</b> 2	
<b>Educational level:</b> II.	
<b>State exam syllabus:</b>	
<b>Last change:</b> 18.07.2022	
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.	

## STATE EXAM DESCRIPTION

<b>Academic year:</b> 2024/2025	
<b>University:</b> Comenius University Bratislava	
<b>Faculty:</b> Faculty of Natural Sciences	
<b>Course ID:</b> PriF.KGe/N-BIGE-955/22	<b>Course title:</b> Advanced Molecular Biology
<b>Number of credits:</b> 2	
<b>Educational level:</b> II.	
<b>State exam syllabus:</b>	
<b>Last change:</b> 18.07.2022	
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.	

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KGe/N-mBGE-116/22		<b>Course title:</b> Advanced diploma thesis seminar (1)			
<b>Educational activities:</b> <b>Type of activities:</b> seminar <b>Number of hours:</b> <b>per week: 2 per level/semester: 26</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 3.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 45					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					
<b>Last change:</b> 27.01.2023					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KGe/N-mBGE-117/22		<b>Course title:</b> Advanced diploma thesis seminar (2)			
<b>Educational activities:</b> <b>Type of activities:</b> seminar <b>Number of hours:</b> <b>per week: 2 per level/semester: 26</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 4.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 18					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					
<b>Last change:</b> 27.01.2023					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KGe/N-mBGE-103/22		<b>Course title:</b> Advanced genetics (1) - Gene mapping and ontogenetics			
<b>Educational activities:</b> <b>Type of activities:</b> lecture <b>Number of hours:</b> <b>per week: 4 per level/semester: 52</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 5					
<b>Recommended semester:</b> 1.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 80					
A	B	C	D	E	FX
26,25	38,75	13,75	10,0	7,5	3,75
<b>Lecturers:</b> doc. RNDr. Vladimíra Džugasová, PhD., doc. RNDr. Eliška Gálová, PhD., Mgr. Lucia Mentelová, PhD., doc. Mgr. Miroslava Slaninová, Dr., prof. RNDr. Andrea Ševčovičová, PhD., doc. MUDr. Ing. Peter Celec, DrSc., Mgr. Stanislav Kyzek, PhD.					
<b>Last change:</b> 18.07.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KGe/N-mBGE-110/22		<b>Course title:</b> Advanced genetics (2) - Mutagenesis and genotoxicology			
<b>Educational activities:</b> <b>Type of activities:</b> lecture <b>Number of hours:</b> <b>per week: 4 per level/semester: 52</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 5					
<b>Recommended semester:</b> 2.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 77					
A	B	C	D	E	FX
24,68	31,17	24,68	15,58	1,3	2,6
<b>Lecturers:</b> prof. RNDr. Andrea Ševčovičová, PhD., Mgr. Miroslav Chovanec, PhD., RNDr. Miroslava Matúšková, PhD., RNDr. Alena Gábelová, CSc., RNDr. Zuzana Kozovská, PhD., Mgr. Andrea Babelová, PhD., Ing. Martina Neboháčová, PhD., Mgr. Božena Smolková, PhD., RNDr. Eva Horváthová, PhD., RNDr. Michal Konečný, PhD.					
<b>Last change:</b> 15.08.2025					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025	
<b>University:</b> Comenius University Bratislava	
<b>Faculty:</b> Faculty of Natural Sciences	
<b>Course ID:</b> PriF.KGe/N-mBGE-113/22	<b>Course title:</b> Advanced genetics (3) - Quantitative, population and behavioral genetics
<b>Educational activities:</b> <b>Type of activities:</b> lecture <b>Number of hours:</b> <b>per week:</b> 4 <b>per level/semester:</b> 52 <b>Form of the course:</b> on-site learning	
<b>Number of credits:</b> 5	
<b>Recommended semester:</b> 3.	
<b>Educational level:</b> II.	
<b>Prerequisites:</b>	
<b>Course requirements:</b> Obtaining at least 60% of points from the course evaluation. The assessment consists of two components: a group project and an individual written exam. A maximum of 20% of points can be obtained for the group project report and the presentation of the group project. The individual written test consists of theoretical questions and computational examples. To obtain grade A it is necessary to obtain at least 92% of points, to obtain grade B at least 85% of points, to obtain grade C at least 77% points, to obtain grade D at least 69% points and to obtain grade E at least 60% of the total course evaluation. Credits will not be awarded to a student who scores less than 60% of the points.	
<b>Learning outcomes:</b> Students will gain knowledge about genetic laws, evolutionary forces and their effects on populations of biological species. They will be able to use the acquired skills to determine what factors affect the structure and evolution of the population and to verify various evolutionary hypotheses by studying simple models. They will be able to use the acquired knowledge in the design and evaluation of experiments in which individuals forming populations at different levels of structure are evaluated. Based on the acquired knowledge, they will be able to monitor the evolution of populations, their divergence, the presence of selection, genetic distances, etc. The acquired knowledge can be used in the field of conservation biology in the protection of endangered species. Another goal of the course is that after completing the course, students understand the basic principles and methods of behavioral genetics, know how to use these principles in the study of behavior and have an idea of how to distinguish between different forms of behavioral genetic and non-genetic component. By completing the course, students should gain knowledge of the potential of genetics to understand issues related to cognition, emotions, personality. Ethical issues arising from some areas of behavioral genetics will also be discussed.	
<b>Class syllabus:</b> History of population genetics. Probability in population genetics. Genetic variability in populations, its sources: mutations, linkage and recombination, migration and their rates. Hardy-Weinberg's law. Neutral model, random genetic drift and Wright-Fisher model. Effective	

population size. Inbreeding. Neutral model and coalescent theory. Darwinian selection. Population substructure. Linkage and linkage disequilibrium. Genetics and analysis of quantitative traits, GWAS.

The course will also discuss topics in behavioral genetics, many of which will use the principles of quantitative and population genetics: the history of behavioral genetics, the design of genetic experiments aimed at studying behavior; heritability; methods for identifying genes involved in specific types of behavior; basic principles of cognitive biology; microorganisms as cognitive systems; behavioral genetics of insects, birds, mammals and primates; human behavioral genetics and its methodological tools; neurogenetics; learning and memory; general and specific cognitive abilities; cognitive disorders and their genetic basis; psychopathology and personality disorders; social behavior and its genetic component; genetic reasons for antisocial behavior; sexual orientation; evolutionary aspects of behavior and its genetic control.

**Recommended literature:**

1. Barton, N.H., Briggs, D.E.G., Eisen, J.A., Goldstein, D.B., Patel, N.H. Evolution. First Edition. Cold Spring Harbor Laboratory Press 2007.
2. Hamilton, M.B. Population Genetics. Second edition. Wiley-Blackwell Publication, Vivar Printing Sdn, Malaysia, 2012, 407 s. ISBN 978-1-4051-3277-0
3. Relichova, J. Genetika populací. Masarykova Univerzita Brno, 2009, 187 s. ISBN 978-80-210-475-2.
4. Hartl, D.L., Clark, A.G. Principles of Population Genetics. Third edition. Sinauer Associates, Inc, Publishers, Sunderland, Massachusetts, 1997, 542 s.
5. Wakeley, J. Coalescent Theory. An Introduction. Harvard University. Roberts & Company Publishers, Greenwood Willage, Colorado, 2009, 326 s.
6. Plomin, R., DeFries, J.C., McClearn, G., McGuffin, P. (2008). Behavioral genetics. 5th Edition. Worth Publishers and W.H. Freeman and Comp.
7. Anholt, R.R.H., Mackay, T.F.C. (2010). Principles of behavioral genetics. Academic Press.
8. Alcock, J. (2009). Animal behavior. 9th Edition. Sinauer Associates, Inc.
9. Bazzett, T.J. (2008). An introduction to behavioral genetics. Sinauer Associates, Inc.

**Languages necessary to complete the course:**

Slovak in combination with English (study literature in English)

**Notes:**

the course is provided only in the winter semester

**Past grade distribution**

Total number of evaluated students: 78

A	B	C	D	E	FX
8,97	24,36	33,33	23,08	10,26	0,0

**Lecturers:** Mgr. Katarína Bodřová, PhD., prof. RNDr. Ľubomír Tomáška, DrSc., doc. MUDr. Ing. Peter Celec, DrSc., RNDr. Boris Bilčík, PhD., RNDr. Dušan Žitňan, DrSc., RNDr. Michal Konečný, PhD.

**Last change:** 22.09.2022

**Approved by:** prof. RNDr. Ľubomír Tomáška, DrSc.

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KGe/N-mBGE-106/22		<b>Course title:</b> Advanced practicals in genetics (1)			
<b>Educational activities:</b> <b>Type of activities:</b> practicals <b>Number of hours:</b> <b>per week: 4 per level/semester: 52</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 4					
<b>Recommended semester:</b> 1.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 81					
A	B	C	D	E	FX
87,65	12,35	0,0	0,0	0,0	0,0
<b>Lecturers:</b> RNDr. Regina Sepšiová, PhD., Mgr. Katarína Procházková, PhD., Mgr. Stanislav Kyzek, PhD., Mgr. Ivana Kyzeková, PhD., Mgr. Martina Babinská					
<b>Last change:</b> 18.07.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KGe/N-mBGE-115/22		<b>Course title:</b> Advanced seminar 1			
<b>Educational activities:</b> <b>Type of activities:</b> seminar <b>Number of hours:</b> <b>per week: 2 per level/semester: 26</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 3.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 78					
A	B	C	D	E	FX
66,67	21,79	10,26	1,28	0,0	0,0
<b>Lecturers:</b> doc. Mgr. Miroslava Slaninová, Dr., Mgr. Filip Červenák, PhD., Mgr. Stanislav Kyzek, PhD.					
<b>Last change:</b> 18.07.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KGe/N-mBGE-131/22		<b>Course title:</b> Animal genetics			
<b>Educational activities:</b> <b>Type of activities:</b> lecture / seminar <b>Number of hours:</b> <b>per week:</b> 1 / 1 <b>per level/semester:</b> 13 / 13 <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 2., 4.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 34					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b> doc. Mgr. Miroslava Slaninová, Dr., Mgr. Lucia Mentelová, PhD., Mgr. Martina Gálíková, PhD., Mgr. et Mgr. Peter Klepsatel, PhD.					
<b>Last change:</b> 15.08.2025					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KGe/N-mBGE-132/22		<b>Course title:</b> Applied Genetics			
<b>Educational activities:</b> <b>Type of activities:</b> lecture <b>Number of hours:</b> <b>per week: 1 per level/semester: 13</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 1					
<b>Recommended semester:</b> 4.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b> PriF.KGe/N-mBGE-103/22 - Advanced genetics (1) - Gene mapping and ontogenetics and PriF.KGe/N-mBGE-110/22 - Advanced genetics (2) - Mutagenesis and genotoxicology					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 53					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b> prof. RNDr. Ľubomír Tomáška, DrSc., RNDr. Michal Konečný, PhD.					
<b>Last change:</b> 18.07.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KBCh/N-mCBI-127/22		<b>Course title:</b> Basics of Neurobiology			
<b>Educational activities:</b> <b>Type of activities:</b> lecture <b>Number of hours:</b> <b>per week:</b> 2 <b>per level/semester:</b> 26 <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 1., 3.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 77					
A	B	C	D	E	FX
96,1	3,9	0,0	0,0	0,0	0,0
<b>Lecturers:</b> MUDr. RNDr. Dominika Fričová, PhD.					
<b>Last change:</b> 27.07.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KAn/N-XXXX-005/21		<b>Course title:</b> Bioarchaeology			
<b>Educational activities:</b> <b>Type of activities:</b> seminar <b>Number of hours:</b> <b>per week: 2 per level/semester: 26</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 3					
<b>Recommended semester:</b> 1., 3.					
<b>Educational level:</b> I., II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 1253					
A	B	C	D	E	FX
68,08	10,38	6,78	5,75	4,79	4,23
<b>Lecturers:</b> doc. RNDr. Radoslav Beňuš, PhD., Mgr. Silvia Bodoriková, PhD., RNDr. Michaela Dörnhöferová, PhD.					
<b>Last change:</b> 07.11.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KGe/N-mBGE-128/22		<b>Course title:</b> Cell and molecular biology of the yeast			
<b>Educational activities:</b> <b>Type of activities:</b> practicals / lecture <b>Number of hours:</b> <b>per week:</b> 3 / 2 <b>per level/semester:</b> 39 / 26 <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 6					
<b>Recommended semester:</b> 1.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 61					
A	B	C	D	E	FX
60,66	24,59	11,48	1,64	0,0	1,64
<b>Lecturers:</b> doc. RNDr. Vladimíra Džugasová, PhD.					
<b>Last change:</b> 15.08.2025					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KBCh/N-mCBI-120/22		<b>Course title:</b> Crystallography of Proteins and Nucleic Acids			
<b>Educational activities:</b> <b>Type of activities:</b> lecture <b>Number of hours:</b> <b>per week: 2 per level/semester: 26</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 2.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 5					
A	B	C	D	E	FX
60,0	20,0	20,0	0,0	0,0	0,0
<b>Lecturers:</b> RNDr. Ľubica Urbániková, CSc.					
<b>Last change:</b> 27.07.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## STATE EXAM DESCRIPTION

<b>Academic year:</b> 2024/2025	
<b>University:</b> Comenius University Bratislava	
<b>Faculty:</b> Faculty of Natural Sciences	
<b>Course ID:</b> PriF.KGe/N-mOBH-100/22	<b>Course title:</b> Defence of diploma thesis
<b>Number of credits:</b> 10	
<b>Educational level:</b> II.	
<b>State exam syllabus:</b>	
<b>Last change:</b> 18.07.2022	
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.	

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KJ/N-mXCJ-078/22		<b>Course title:</b> Deutsch für Naturwissenschaftler A1 (začiatocníci)			
<b>Educational activities:</b> <b>Type of activities:</b> seminar <b>Number of hours:</b> <b>per week: 2 per level/semester: 26</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 1., 3.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 53					
A	B	C	D	E	FX
98,11	0,0	0,0	0,0	0,0	1,89
<b>Lecturers:</b> Mgr. Karin Rózsová Wolfová					
<b>Last change:</b> 24.07.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KJ/N-mXCJ-080/22		<b>Course title:</b> Deutsch für Naturwissenschaftler A2 (začiatocníci)			
<b>Educational activities:</b> <b>Type of activities:</b> seminar <b>Number of hours:</b> <b>per week:</b> 2 <b>per level/semester:</b> 26 <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 2.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 39					
A	B	C	D	E	FX
94,87	0,0	0,0	0,0	0,0	5,13
<b>Lecturers:</b> Mgr. Karin Rózsová Wolfová					
<b>Last change:</b> 24.07.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KJ/N-mXCJ-079/22		<b>Course title:</b> Deutsch für Naturwissenschaftler B1 (pokročili)			
<b>Educational activities:</b> <b>Type of activities:</b> seminar <b>Number of hours:</b> <b>per week:</b> 2 <b>per level/semester:</b> 26 <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 1., 3.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 19					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b> Mgr. Karin Rózsová Wolfová					
<b>Last change:</b> 24.07.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KJ/N-mXCJ-081/22		<b>Course title:</b> Deutsch für Naturwissenschaftler B2 (pokročili)			
<b>Educational activities:</b> <b>Type of activities:</b> seminar <b>Number of hours:</b> <b>per week: 2 per level/semester: 26</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 2.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 10					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b> Mgr. Karin Rózsová Wolfová					
<b>Last change:</b> 24.07.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KGe/N-mBGE-118/22		<b>Course title:</b> Diploma project (1)			
<b>Educational activities:</b> <b>Type of activities:</b> practicals <b>Number of hours:</b> <b>per week: 8 per level/semester: 104</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 8					
<b>Recommended semester:</b> 3.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 78					
A	B	C	D	E	FX
92,31	3,85	2,56	0,0	0,0	1,28
<b>Lecturers:</b> doc. Mgr. Miroslava Slaninová, Dr., prof. RNDr. Ľubomír Tomáška, DrSc., doc. RNDr. Vladimíra Džugasová, PhD., doc. RNDr. Eliška Gálová, PhD., Mgr. Katarína Gaplovská, PhD., Mgr. Lucia Mentelová, PhD., RNDr. Regina Sepšiová, PhD., prof. RNDr. Andrea Ševčovičová, PhD., Mgr. Silvia Bágeľová Poláková, PhD., Mgr. Katarína Procházková, PhD., Mgr. Filip Červenák, PhD., Mgr. Stanislav Kyzek, PhD., Mgr. Ivana Kyzeková, PhD., Mgr. Anetta Bakošová, PhD., RNDr. Michal Konečný, PhD., Mgr. Mária Peťková, PhD., Mgr. Nina Mayerová, PhD., Mgr. Veronika Vozáriková, PhD., Mgr. Martin Lukačišin, PhD.					
<b>Last change:</b> 18.07.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KGe/N-mBGE-119/22		<b>Course title:</b> Diploma project (2)			
<b>Educational activities:</b> <b>Type of activities:</b> practicals <b>Number of hours:</b> <b>per week: 12 per level/semester: 156</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 12					
<b>Recommended semester:</b> 4.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 79					
A	B	C	D	E	FX
91,14	1,27	2,53	1,27	1,27	2,53
<b>Lecturers:</b> prof. RNDr. Ľubomír Tomáška, DrSc., doc. RNDr. Vladimíra Džugasová, PhD., doc. RNDr. Eliška Gálová, PhD., Mgr. Katarína Gaplovská, PhD., Mgr. Lucia Mentelová, PhD., RNDr. Regina Sepšiová, PhD., doc. Mgr. Miroslava Slaninová, Dr., prof. RNDr. Andrea Ševčovičová, PhD., Mgr. Silvia Bágeľová Poláková, PhD., Mgr. Katarína Procházková, PhD., Mgr. Filip Červenák, PhD., Mgr. Stanislav Kyzek, PhD., Mgr. Ivana Kyzeková, PhD., Mgr. Anetta Bakošová, PhD., RNDr. Michal Konečný, PhD., Mgr. Mária Peťková, PhD., Mgr. Nina Mayerová, PhD., Mgr. Veronika Vozáriková, PhD., Mgr. Martin Lukačišin, PhD.					
<b>Last change:</b> 18.07.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KGe/N-mBGE-126/22		<b>Course title:</b> Diploma thesis practicals 1			
<b>Educational activities:</b> <b>Type of activities:</b> practicals <b>Number of hours:</b> <b>per week: 3 per level/semester: 39</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 3					
<b>Recommended semester:</b> 1.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 79					
A	B	C	D	E	FX
91,14	7,59	0,0	1,27	0,0	0,0
<b>Lecturers:</b> Mgr. Silvia Bágel'ová Poláková, PhD., Mgr. Katarína Procházková, PhD., RNDr. Regina Sepšiová, PhD., Mgr. Filip Červenák, PhD., doc. Mgr. Miroslava Slaninová, Dr., prof. RNDr. Andrea Ševčovičová, PhD., Mgr. Ivana Kyzeková, PhD., doc. RNDr. Vladimíra Džugasová, PhD., prof. RNDr. Ľubomír Tomáška, DrSc., doc. RNDr. Eliška Gálová, PhD., Mgr. Katarína Gaplovská, PhD., Mgr. Stanislav Kyzek, PhD., Mgr. Lucia Mentelová, PhD., Mgr. Anetta Bakošová, PhD., RNDr. Michal Konečný, PhD., Mgr. Mária Peťková, PhD., Mgr. Martin Lukačišin, PhD., Mgr. Nina Mayerová, PhD., Mgr. Veronika Vozáriková, PhD.					
<b>Last change:</b> 18.07.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KGe/N-mBGE-127/22		<b>Course title:</b> Diploma thesis practicals 2			
<b>Educational activities:</b> <b>Type of activities:</b> practicals <b>Number of hours:</b> <b>per week: 4 per level/semester: 52</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 4					
<b>Recommended semester:</b> 2.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 76					
A	B	C	D	E	FX
93,42	3,95	1,32	0,0	0,0	1,32
<b>Lecturers:</b> Mgr. Silvia Bágel'ová Poláková, PhD., RNDr. Regina Sepšiová, PhD., Mgr. Filip Červenák, PhD., doc. Mgr. Miroslava Slaninová, Dr., prof. RNDr. Andrea Ševčovičová, PhD., Mgr. Ivana Kyzeková, PhD., doc. RNDr. Vladimíra Džugasová, PhD., Mgr. Stanislav Kyzek, PhD., prof. RNDr. Ľubomír Tomáška, DrSc., doc. RNDr. Eliška Gálová, PhD., Mgr. Katarína Gaplovská, PhD., Mgr. Lucia Mentelová, PhD., Mgr. Anetta Bakošová, PhD., Mgr. Katarína Procházková, PhD., RNDr. Michal Konečný, PhD., Mgr. Mária Peťková, PhD., Mgr. Martin Lukačišin, PhD., Mgr. Nina Mayerová, PhD.					
<b>Last change:</b> 18.07.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KJ/N-mXCJ-076/22		<b>Course title:</b> EAP 1/English for Academic Purposes			
<b>Educational activities:</b> <b>Type of activities:</b> seminar <b>Number of hours:</b> <b>per week: 2 per level/semester: 26</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 1.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 269					
A	B	C	D	E	FX
76,95	17,84	3,35	0,0	1,12	0,74
<b>Lecturers:</b> PhDr. Štefánia Dugovičová, PhD., Mgr. Lenka Jeleňová, Mgr. Barbara Kordíková, PhD., PaedDr. Stanislav Kováč, PhD., RNDr. Tatiana Slováková, PhD.					
<b>Last change:</b> 26.09.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KJ/N-mXCJ-077/22		<b>Course title:</b> EAP 2/English for Academic Purposes			
<b>Educational activities:</b> <b>Type of activities:</b> seminar <b>Number of hours:</b> <b>per week: 2 per level/semester: 26</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 2.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 224					
A	B	C	D	E	FX
83,48	12,05	1,79	0,45	0,45	1,79
<b>Lecturers:</b> PhDr. Štefánia Dugovičová, PhD., Mgr. Lenka Jeleňová, Mgr. Barbara Kordíková, PhD., PaedDr. Stanislav Kováč, PhD., RNDr. Tatiana Slováková, PhD., PhDr. Oľga Pažitková, CSc.					
<b>Last change:</b> 26.09.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KGe/N-mBGE-122/22		<b>Course title:</b> Excursion for Genetics			
<b>Educational activities:</b> <b>Type of activities:</b> excursion <b>Number of hours:</b> <b>per week: per level/semester:</b> 2d <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 2., 4.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 58					
A	B	C	D	E	FX
96,55	0,0	0,0	0,0	0,0	3,45
<b>Lecturers:</b> doc. RNDr. Eliška Gálová, PhD., RNDr. Regina Sepšiová, PhD.					
<b>Last change:</b> 18.07.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KGe/N-XXXX-004/21		<b>Course title:</b> Genetics for everyone			
<b>Educational activities:</b> <b>Type of activities:</b> lecture <b>Number of hours:</b> <b>per week: 2 per level/semester: 26</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 3					
<b>Recommended semester:</b> 2., 4.					
<b>Educational level:</b> I., II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 1468					
A	B	C	D	E	FX
94,01	0,68	0,0	0,0	0,0	5,31
<b>Lecturers:</b> RNDr. Regina Sepšiová, PhD., doc. Mgr. Miroslava Slaninová, Dr., Mgr. Filip Červenák, PhD., prof. RNDr. Andrea Ševčovičová, PhD., doc. RNDr. Eliška Gálová, PhD., Mgr. Stanislav Kyzek, PhD.					
<b>Last change:</b> 15.08.2025					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025	
<b>University:</b> Comenius University Bratislava	
<b>Faculty:</b> Faculty of Natural Sciences	
<b>Course ID:</b> PriF.KBCh/N-mCBI-119/22	<b>Course title:</b> Genomics
<b>Educational activities:</b> <b>Type of activities:</b> lecture <b>Number of hours:</b> <b>per week: 2 per level/semester: 26</b> <b>Form of the course:</b> on-site learning	
<b>Type, volume, methods and workload of the student - additional information</b> Form of Study: lecture Number of contact hours: per week: 2 per level/semester: 26 Form of the course: on-site learning, remote	
<b>Number of credits:</b> 2	
<b>Recommended semester:</b> 2.	
<b>Educational level:</b> II.	
<b>Prerequisites:</b>	
<b>Course requirements:</b> There will be a written test during the examination period of the semester. The grading scale is as follows: A – 92%, B – 84%, C – 76%, D – 68%, E – 60%. Credits will not be awarded to a student who gets less than 60% from the test. Scale of assessment (preliminary/final): 0/100	
<b>Learning outcomes:</b> During the course, students will gain an overview of experimental strategies that allow them to determine the complete sequences of genomes, identify and annotate genes and then examine their biological functions. After completing the course, students will learn the basics of genomics, transcriptomics, proteomics, interactomics, epigenomics, systems and synthetic biology, functional and comparative analysis of complete genomes and get acquainted with the importance of these disciplines for modern biomedical research and biotechnological applications.	
<b>Class syllabus:</b> Genomics and its importance for modern biomedical research. From individual genes to complete genomes. Physical genome mapping techniques. Experimental strategies for complete genome sequencing projects (from bacterial genomes to human genomes). Genomics and personalized medicine. "Personal genomes" and ethical aspects of genomics. Personalized therapy. Molecular phylogenomics. Paleogenomics. Metagenomics. Determination of DNA sequences of complex biological communities. Analysis of the dynamics of microorganism communities. New approaches in DNA sequencing technology. From chemical and enzymatic methods to automatic DNA analyzers. Nucleic acid sequencing methods by SBS, SBL and SBH approaches. Nanopore sequencing.	

Principles of annotation and sequence analysis of complete genomes. Categorization of genes and functional elements in genomes. Bioinformatics principles of identification of new genes. Genes and genomic databases and datamining.

Comparative and evolutionary genomics. Evolutionary processes taking place at the genome level. Functional analysis of complete genomes. Principles of transcriptome and proteome analysis. Epigenomics.

Chemical genomics and perturbation biology.

Introduction to systems biology and mathematical modeling. Biological systems as computer models. Fundamentals of mathematical models in biology.

Synthetic biology. The concept of minimal genome. Methods of synthetic biology. DNA synthesis strategies, from oligonucleotide preparation to genome synthesis. Synthetic microorganisms. Biotechnological applications of synthetic organisms.

**Recommended literature:**

Nosek, J. a kol. (2013) Genomics (in Slovak). CreateSpace Independent Publishing Platform.

Brown, T.A. (2002) Genomes. 2nd. edition. Garland Science.

Watson, J.D. a kol. (2007) Recombinant DNA: Genes and Genomes – A short course. 3rd edition. CSHL Press.

**Languages necessary to complete the course:**

Slovak in combination with English (textbooks in English)

**Notes:**

the course is provided only in the summer semester

**Past grade distribution**

Total number of evaluated students: 54

A	B	C	D	E	FX
27,78	29,63	20,37	11,11	5,56	5,56

**Lecturers:** prof. RNDr. Jozef Nosek, DrSc., Mgr. Peter Baráth, PhD., doc. Mgr. Bronislava Brejová, PhD., Mgr. Jaroslav Budiš, PhD., doc. Mgr. Richard Kollár, PhD., Ing. Martina Neboháčová, PhD., prof. RNDr. Ľubomír Tomáška, DrSc., doc. RNDr. Ivan Valent, CSc., doc. Mgr. Tomáš Vinař, PhD.

**Last change:** 18.05.2025

**Approved by:** prof. RNDr. Ľubomír Tomáška, DrSc.

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KRGRR/N- XXXX-001/21		<b>Course title:</b> Geography of the World in the 21.st century			
<b>Educational activities:</b> <b>Type of activities:</b> lecture / seminar <b>Number of hours:</b> <b>per week:</b> 1 / 1 <b>per level/semester:</b> 13 / 13 <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 3					
<b>Recommended semester:</b> 2., 4.					
<b>Educational level:</b> I., II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 147					
A	B	C	D	E	FX
83,67	2,72	6,12	0,68	0,68	6,12
<b>Lecturers:</b> Mgr. Rastislav Cákoci, PhD., RNDr. Katarína Danielová, PhD., doc. RNDr. Daniel Gurňák, PhD., doc. RNDr. František Križan, PhD., doc. RNDr. Eva Rajčáková, CSc., Mgr. Michala Sládeková Madajová, PhD., RNDr. Angelika Švecová, PhD., doc. Mgr. Martin Šveda, PhD., prof. RNDr. Ladislav Tolmáči, PhD., RNDr. Mgr. Anna Tolmáči, PhD., Mgr. Gabriel Zubriczký, PhD.					
<b>Last change:</b> 15.05.2021					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KGP/N-XXXX-007/21		<b>Course title:</b> Geology in Nutshell			
<b>Educational activities:</b> <b>Type of activities:</b> practicals / lecture <b>Number of hours:</b> <b>per week:</b> 1 / 2 <b>per level/semester:</b> 13 / 26 <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 3					
<b>Recommended semester:</b> 2., 4.					
<b>Educational level:</b> I., II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 57					
A	B	C	D	E	FX
89,47	0,0	0,0	0,0	8,77	1,75
<b>Lecturers:</b> prof. RNDr. Roman Aubrecht, Dr., prof. Mgr. Natália Hlavatá Hudáčková, PhD., doc. RNDr. Jozef Hók, CSc., prof. RNDr. Michal Kováč, DrSc., doc. RNDr. Alexander Lačný, PhD., doc. RNDr. Jana Fridrichová, PhD., RNDr. Ondrej Nemeč, PhD.					
<b>Last change:</b> 20.01.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KPI/N-XXXX-009/21		<b>Course title:</b> Global Environmental Issues			
<b>Educational activities:</b> <b>Type of activities:</b> lecture <b>Number of hours:</b> <b>per week: 2 per level/semester: 26</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 3					
<b>Recommended semester:</b> 2., 4.					
<b>Educational level:</b> I., II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 1121					
A	B	C	D	E	FX
90,45	0,0	0,27	0,0	0,0	9,28
<b>Lecturers:</b> doc. RNDr. Katarína Pavličková, CSc., prof. RNDr. Pavel Dlapa, PhD., doc. RNDr. Martina Zvaríková, PhD., doc. RNDr. Ľubomír Jurkovič, PhD.					
<b>Last change:</b> 09.11.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KEM/N-mXXX-003/22		<b>Course title:</b> Green University 1			
<b>Educational activities:</b> <b>Type of activities:</b> practicals / seminar <b>Number of hours:</b> <b>per week:</b> 2 / 2 <b>per level/semester:</b> 26 / 26 <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 1., 2., 3., 4., 5., 6..					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 32					
A	B	C	D	E	FX
93,75	0,0	0,0	0,0	0,0	6,25
<b>Lecturers:</b> RNDr. Jaroslav Bella, doc. Mgr. Miroslava Slaninová, Dr., Mgr. Martin Šebesta, PhD., RNDr. Hubert Žarnovičan, PhD.					
<b>Last change:</b> 24.08.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KEM/N-mXXX-004/22		<b>Course title:</b> Green University 2			
<b>Educational activities:</b> <b>Type of activities:</b> practicals / seminar <b>Number of hours:</b> <b>per week:</b> 2 / 2 <b>per level/semester:</b> 26 / 26 <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 1., 2., 3., 4., 5., 6..					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 16					
A	B	C	D	E	FX
93,75	0,0	0,0	0,0	0,0	6,25
<b>Lecturers:</b> RNDr. Jaroslav Bella, doc. Mgr. Miroslava Slaninová, Dr., Mgr. Martin Šebesta, PhD., RNDr. Hubert Žarnovičan, PhD.					
<b>Last change:</b> 24.08.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KMB/N-mBMO-105/22		<b>Course title:</b> Human Molecular Genetics			
<b>Educational activities:</b> <b>Type of activities:</b> practicals / lecture <b>Number of hours:</b> <b>per week:</b> 3 / 2 <b>per level/semester:</b> 39 / 26 <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 6					
<b>Recommended semester:</b> 2.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 140					
A	B	C	D	E	FX
27,14	15,71	20,71	17,14	12,14	7,14
<b>Lecturers:</b> doc. Mgr. Andrej Ficek, PhD., doc. Mgr. Andrea Šoltýsová, PhD., Mgr. Marián Baldovič, PhD., doc. RNDr. Ján Radvánszky, PhD., Mgr. Nikoleta Alchus Laiferová, PhD.					
<b>Last change:</b> 24.07.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## STATE EXAM DESCRIPTION

<b>Academic year:</b> 2024/2025	
<b>University:</b> Comenius University Bratislava	
<b>Faculty:</b> Faculty of Natural Sciences	
<b>Course ID:</b> PriF.KGe/N-BIGE-957/22	<b>Course title:</b> Human and animal molecular biology and genetics
<b>Number of credits:</b> 1	
<b>Educational level:</b> II.	
<b>State exam syllabus:</b>	
<b>Last change:</b> 18.07.2022	
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.	

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KPI/N-XXXX-008/21		<b>Course title:</b> Man as a part of the nature			
<b>Educational activities:</b> <b>Type of activities:</b> lecture <b>Number of hours:</b> <b>per week: 2 per level/semester: 26</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 3					
<b>Recommended semester:</b> 1., 3.					
<b>Educational level:</b> I., II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 1306					
A	B	C	D	E	FX
90,28	0,38	0,0	0,0	0,08	9,26
<b>Lecturers:</b> doc. RNDr. Martina Zvaríková, PhD., prof. RNDr. Pavel Dlapa, PhD., RNDr. Malvína Reiffers Čierniková, PhD., prof. RNDr. Elena Masarovičová, DrSc., prof. PaedDr. Pavol Prokop, DrSc., prof. RNDr. Peter Fedor, DrSc., prof. Ing. Eva Chmielewská, CSc., RNDr. Martin Labuda, PhD., doc. RNDr. Eva Pauditšová, PhD., RNDr. Hubert Žarnovičan, PhD., doc. RNDr. Stanislav Rapant, DrSc., doc. RNDr. Ľubomír Jurkovič, PhD., doc. Mgr. Tomáš Lánczos, PhD., doc. RNDr. Katarína Pavličková, CSc.					
<b>Last change:</b> 09.11.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025	
<b>University:</b> Comenius University Bratislava	
<b>Faculty:</b> Faculty of Natural Sciences	
<b>Course ID:</b> PriF-FMFI.KI/2-AIN-501/00	<b>Course title:</b> Methods in Bioinformatics
<b>Educational activities:</b> <b>Type of activities:</b> practicals / lecture <b>Number of hours:</b> <b>per week:</b> 2 / 2 <b>per level/semester:</b> 26 / 26 <b>Form of the course:</b> on-site learning	
<b>Number of credits:</b> 6	
<b>Recommended semester:</b> 1., 3.	
<b>Educational level:</b> I., II.	
<b>Prerequisites:</b>	
<b>Antirequisites:</b> FMFI.KAI+KI/1-BIN-301/15	
<b>Course requirements:</b> Homework assignments (30%), group project (10%), individual project (40%), weekly quizzes (10%), activity at practicals (10%). Grades: A 90%, B 80%, C 70%, D 60%, E 50%. More information on the course website. Scale of assessment (preliminary/final): 100/0	
<b>Learning outcomes:</b> Students will be familiar with basic problems and methods in bioinformatics; they will be able to choose an appropriate method for a given biological problem and to interpret its results.	
<b>Class syllabus:</b> Basic concepts from probability, algorithms and machine learning. Sequencing and assembling genomes. Gene finding. Sequence alignment. Evolutionary models and phylogenetic trees. Comparative and population genomics. RNA structure. Motif finding and gene expression analysis. Protein structure and function. Selected current topics. Life science students will focus on understanding and correct application of these methods on real data.	
<b>Recommended literature:</b> Biological sequence analysis : Probabilistic models of proteins and nucleic acids / Richard Durbin ... [et al.]. Cambridge : Cambridge University Press, 1998 Understanding bioinformatics / Marketa Zvelebil, Jeremy O. Baum. New York : Garland Science, 2008	
<b>Languages necessary to complete the course:</b> Slovak, English	
<b>Notes:</b>	

<b>Past grade distribution</b>					
Total number of evaluated students: 103					
A	B	C	D	E	FX
46,6	23,3	15,53	7,77	5,83	0,97
<b>Lecturers:</b> doc. Mgr. Bronislava Brejová, PhD., doc. Mgr. Tomáš Vinař, PhD.					
<b>Last change:</b> 25.09.2024					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KBCh/N-mCBI-107/22		<b>Course title:</b> Molecular Biology of the Cell (2)			
<b>Educational activities:</b> <b>Type of activities:</b> lecture <b>Number of hours:</b> <b>per week: 4 per level/semester: 52</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 5					
<b>Recommended semester:</b> 2.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 90					
A	B	C	D	E	FX
5,56	27,78	27,78	25,56	10,0	3,33
<b>Lecturers:</b> doc. Mgr. Peter Polčic, PhD., Mgr. Katarína Gaplovská, PhD., doc. RNDr. Marek Mentel, PhD., prof. RNDr. Ľubomír Tomáška, DrSc., doc. RNDr. Ivan Valent, CSc., doc. RNDr. Igor Zeman, PhD.					
<b>Last change:</b> 12.09.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KBCh/N-mCBI-118/22		<b>Course title:</b> Molecular Biology of the Cell (2) - Seminar			
<b>Educational activities:</b> <b>Type of activities:</b> seminar <b>Number of hours:</b> <b>per week: 2 per level/semester: 26</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 2.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 47					
A	B	C	D	E	FX
55,32	38,3	4,26	0,0	0,0	2,13
<b>Lecturers:</b> doc. Mgr. Peter Polčic, PhD., Mgr. Filip Červenák, PhD., Mgr. Katarína Gaplovská, PhD.					
<b>Last change:</b> 12.09.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## STATE EXAM DESCRIPTION

<b>Academic year:</b> 2024/2025	
<b>University:</b> Comenius University Bratislava	
<b>Faculty:</b> Faculty of Natural Sciences	
<b>Course ID:</b> PriF.KGe/N-BIGE-959/22	<b>Course title:</b> Molecular biology and genetics of microorganisms
<b>Number of credits:</b> 1	
<b>Educational level:</b> II.	
<b>State exam syllabus:</b>	
<b>Last change:</b> 18.07.2022	
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.	

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KGe/N-mBGE-101/22		<b>Course title:</b> Molecular biology of the cell (1)			
<b>Educational activities:</b> <b>Type of activities:</b> lecture <b>Number of hours:</b> <b>per week:</b> 4 <b>per level/semester:</b> 52 <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 5					
<b>Recommended semester:</b> 1.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 93					
A	B	C	D	E	FX
23,66	19,35	9,68	18,28	23,66	5,38
<b>Lecturers:</b> prof. RNDr. Ľubomír Tomáška, DrSc., prof. RNDr. Jozef Nosek, DrSc., Ing. Martina Neboháčová, PhD., doc. RNDr. Igor Zeman, PhD.					
<b>Last change:</b> 22.09.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KJCh/N-XXXX-011/21		<b>Course title:</b> Perspectives in Chemistry			
<b>Educational activities:</b> <b>Type of activities:</b> lecture <b>Number of hours:</b> <b>per week: 2 per level/semester: 26</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 1., 3.					
<b>Educational level:</b> I., II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 56					
A	B	C	D	E	FX
37,5	32,14	8,93	3,57	0,0	17,86
<b>Lecturers:</b> doc. RNDr. Martin Putala, CSc., prof. RNDr. Ivan Černušák, DrSc., doc. RNDr. Erik Rakovský, PhD., Mgr. Peter Hrobárik, PhD., doc. RNDr. Oľga Rosskopfová, PhD., Mgr. Táňa Sebechlebská, PhD., Ing. Darina Tóthová, CSc., doc. RNDr. Radoslav Halko, PhD., prof. RNDr. Marian Masár, PhD., doc. RNDr. Jana Korduláková, PhD., doc. Mgr. Peter Polčic, PhD., doc. RNDr. Andrej Boháč, CSc.					
<b>Last change:</b> 07.11.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KBCh/N-XXXX-010/22		<b>Course title:</b> Perspectives of Biochemistry			
<b>Educational activities:</b> <b>Type of activities:</b> lecture <b>Number of hours:</b> <b>per week: 2 per level/semester: 26</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 2., 4.					
<b>Educational level:</b> I., II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 411					
A	B	C	D	E	FX
92,46	0,0	0,0	0,0	0,0	7,54
<b>Lecturers:</b> doc. RNDr. Marek Mentel, PhD., prof. RNDr. Katarína Mikušová, DrSc., prof. RNDr. Anton Horváth, CSc., Mgr. Stanislav Huszár, PhD., doc. RNDr. Jana Korduláková, PhD., Ing. Martina Neboháčová, PhD., doc. Mgr. Peter Polčic, PhD., Mgr. Viktória Hodorová, PhD., RNDr. Ingrid Sveráková, PhD., doc. RNDr. Igor Zeman, PhD.					
<b>Last change:</b> 19.09.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KTV/N-mXTV-110/22		<b>Course title:</b> Physical Education 10			
<b>Educational activities:</b> <b>Type of activities:</b> practicals <b>Number of hours:</b> <b>per week: 2 per level/semester: 26</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 4.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 260					
A	B	C	D	E	FX
98,46	0,38	0,38	0,0	0,0	0,77
<b>Lecturers:</b> Mgr. Kristína Vanýsková, Mgr. Miriam Kirchmayerová, PhD., Mgr. Martin Mokošák, PhD., Mgr. Igor Remák, PhD., PaedDr. Mgr. Lenka Vandáková, Mgr. Denisa Strečanská, Mgr. Alexander Homer, Mgr. Peter Nehila, Mgr. PaedDr. Simona Rášiová, Mgr. Genc Berisha, PhD.					
<b>Last change:</b> 01.08.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KTV/N-mXTV-107/22		<b>Course title:</b> Physical Education 7			
<b>Educational activities:</b> <b>Type of activities:</b> practicals <b>Number of hours:</b> <b>per week: 2 per level/semester: 26</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 1.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 373					
A	B	C	D	E	FX
96,78	0,27	0,27	0,54	0,27	1,88
<b>Lecturers:</b> Mgr. Kristína Vanýsková, Mgr. Miriam Kirchmayerová, PhD., Mgr. Martin Mokošák, PhD., Mgr. Igor Remák, PhD., PaedDr. Mgr. Lenka Vandáková, Mgr. Denisa Strečanská, Mgr. Alexander Homer, Mgr. Peter Nehila, Mgr. Genc Berisha, PhD.					
<b>Last change:</b> 01.08.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KTV/N-mXTV-108/22		<b>Course title:</b> Physical Education 8			
<b>Educational activities:</b> <b>Type of activities:</b> practicals <b>Number of hours:</b> <b>per week: 2 per level/semester: 26</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 2.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 405					
A	B	C	D	E	FX
96,79	0,25	0,0	0,0	0,0	2,96
<b>Lecturers:</b> Mgr. Kristína Vanýsková, Mgr. Miriam Kirchmayerová, PhD., Mgr. Martin Mokošák, PhD., Mgr. Igor Remák, PhD., PaedDr. Mgr. Lenka Vandáková, Mgr. Denisa Strečanská, Mgr. Alexander Homer, Mgr. Peter Nehila, Mgr. PaedDr. Simona Rášiová, Mgr. Genc Berisha, PhD.					
<b>Last change:</b> 01.08.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KTV/N-mXTV-109/22		<b>Course title:</b> Physical Education 9			
<b>Educational activities:</b> <b>Type of activities:</b> practicals <b>Number of hours:</b> <b>per week: 2 per level/semester: 26</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 3.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 340					
A	B	C	D	E	FX
97,06	0,0	0,29	0,0	0,0	2,65
<b>Lecturers:</b> Mgr. Kristína Vanýsková, Mgr. Miriam Kirchmayerová, PhD., Mgr. Martin Mokošák, PhD., Mgr. Igor Remák, PhD., PaedDr. Mgr. Lenka Vandáková, Mgr. Denisa Strečanská, Mgr. Alexander Homer, Mgr. Peter Nehila, Mgr. PaedDr. Simona Rášiová, Mgr. Genc Berisha, PhD.					
<b>Last change:</b> 01.08.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KGe/N-mBGE-129/22		<b>Course title:</b> Plant Genes Manifestations			
<b>Educational activities:</b> <b>Type of activities:</b> practicals / lecture <b>Number of hours:</b> <b>per week:</b> 3 / 2 <b>per level/semester:</b> 39 / 26 <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 6					
<b>Recommended semester:</b> 2.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 45					
A	B	C	D	E	FX
80,0	15,56	4,44	0,0	0,0	0,0
<b>Lecturers:</b> Mgr. Stanislav Kyzek, PhD., doc. RNDr. Eliška Gálová, PhD., Mgr. Monika Bathóová, PhD., doc. Mgr. Boris Bokor, PhD., doc. Mgr. Viktor Demko, PhD., doc. Mgr. Michal Martinka, PhD.					
<b>Last change:</b> 18.07.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## STATE EXAM DESCRIPTION

<b>Academic year:</b> 2024/2025	
<b>University:</b> Comenius University Bratislava	
<b>Faculty:</b> Faculty of Natural Sciences	
<b>Course ID:</b> PriF.KGe/N-BIGE-958/22	<b>Course title:</b> Plant molecular biology and genetics
<b>Number of credits:</b> 1	
<b>Educational level:</b> II.	
<b>State exam syllabus:</b>	
<b>Last change:</b> 18.07.2022	
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.	

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KBo/N-XXXX-003/21		<b>Course title:</b> Plants known and unknown			
<b>Educational activities:</b> <b>Type of activities:</b> lecture <b>Number of hours:</b> <b>per week: 2 per level/semester: 26</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 3					
<b>Recommended semester:</b> 1., 3.					
<b>Educational level:</b> I., II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 1141					
A	B	C	D	E	FX
66,7	21,56	6,05	0,0	1,75	3,94
<b>Lecturers:</b> Ing. Mgr. Eva Zahradníková, PhD., doc. Mgr. Katarína Mišíková, PhD., doc. RNDr. Jana Ščevková, PhD.					
<b>Last change:</b> 30.08.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KRGRR/N- XXXX-002/21		<b>Course title:</b> Practical Geography for Natural Scientists			
<b>Educational activities:</b> <b>Type of activities:</b> lecture / seminar <b>Number of hours:</b> <b>per week:</b> 1 / 1 <b>per level/semester:</b> 13 / 13 <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 3					
<b>Recommended semester:</b> 1., 3.					
<b>Educational level:</b> I., II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 77					
A	B	C	D	E	FX
85,71	0,0	0,0	0,0	1,3	12,99
<b>Lecturers:</b> Mgr. Rastislav Cákoci, PhD., RNDr. Katarína Danielová, PhD., doc. RNDr. Daniel Gurňák, PhD., doc. RNDr. František Križan, PhD., doc. RNDr. Eva Rajčáková, CSc., Mgr. Michala Sládeková Madajová, PhD., RNDr. Angelika Švecová, PhD., doc. Mgr. Martin Šveda, PhD., prof. RNDr. Ladislav Tolmáči, PhD., RNDr. Mgr. Anna Tolmáči, PhD., Mgr. Gabriel Zubriczký, PhD.					
<b>Last change:</b> 15.05.2021					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KIHG/N-XXXX-012/21		<b>Course title:</b> Practical Geology for Everyone			
<b>Educational activities:</b> <b>Type of activities:</b> lecture <b>Number of hours:</b> <b>per week: 2 per level/semester: 26</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 3					
<b>Recommended semester:</b> 1., 3.					
<b>Educational level:</b> I., II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 386					
A	B	C	D	E	FX
76,68	9,84	4,4	1,55	0,52	6,99
<b>Lecturers:</b> doc. RNDr. Renáta Fľaková, PhD., doc. RNDr. Renáta Adamcová, PhD., prof. RNDr. Roman Pašteka, PhD., prof. RNDr. Martin Bednarik, PhD., doc. RNDr. Dávid Krčmář, PhD., doc. RNDr. Andrej Mojzeš, PhD., RNDr. Ivana Ondrejková, PhD., doc. Mgr. Vladimír Greif, PhD., Mgr. Rudolf Tornyai, PhD., RNDr. Tatiana Durmeková, PhD., Mgr. Martin Zatlakovič, PhD., doc. RNDr. Milan Seman, CSc.					
<b>Last change:</b> 18.09.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KGe/N-mBGE-107/22		<b>Course title:</b> Pre-diploma practice			
<b>Educational activities:</b> <b>Type of activities:</b> practicals <b>Number of hours:</b> <b>per week: 4 per level/semester: 52</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 4					
<b>Recommended semester:</b> 2.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 81					
A	B	C	D	E	FX
64,2	24,69	6,17	2,47	0,0	2,47
<b>Lecturers:</b> Mgr. Lucia Mentelová, PhD., prof. RNDr. Andrea Ševčovičová, PhD., RNDr. Regina Sepšiová, PhD., doc. RNDr. Vladimíra Džugasová, PhD., doc. RNDr. Eliška Gálová, PhD., Mgr. Katarína Juríková, PhD., Mgr. Ivana Kyzeková, PhD., Mgr. Stanislav Kyzek, PhD.					
<b>Last change:</b> 14.07.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KGe/N-mBGE-125/22		<b>Course title:</b> Pre-diploma training			
<b>Educational activities:</b> <b>Type of activities:</b> practice <b>Number of hours:</b> <b>per week: per level/semester:</b> 3t <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 4					
<b>Recommended semester:</b> 2.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 73					
A	B	C	D	E	FX
90,41	8,22	1,37	0,0	0,0	0,0
<b>Lecturers:</b> Mgr. Katarína Procházková, PhD., Mgr. Silvia Bágeľová Poláková, PhD., RNDr. Regina Sepšiová, PhD., Mgr. Filip Červenák, PhD., doc. Mgr. Miroslava Slaninová, Dr., prof. RNDr. Andrea Ševčovičová, PhD., Mgr. Ivana Kyzeková, PhD., doc. RNDr. Vladimíra Džugasová, PhD., prof. RNDr. Ľubomír Tomáška, DrSc., doc. RNDr. Eliška Gálová, PhD., Mgr. Katarína Gaplovská, PhD., Mgr. Stanislav Kyzek, PhD., Mgr. Lucia Mentelová, PhD., Mgr. Anetta Bakošová, PhD., RNDr. Michal Konečný, PhD., Mgr. Mária Peťková, PhD., Mgr. Martin Lukačišin, PhD., Mgr. Nina Mayerová, PhD.					
<b>Last change:</b> 18.07.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KBCh/N-mCBI-114/22		<b>Course title:</b> Principles of Molecular Immunology			
<b>Educational activities:</b> <b>Type of activities:</b> lecture <b>Number of hours:</b> <b>per week:</b> 2 <b>per level/semester:</b> 26 <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 1., 3.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 54					
A	B	C	D	E	FX
44,44	33,33	18,52	3,7	0,0	0,0
<b>Lecturers:</b> Mgr. Vladimír Leksa, PhD.					
<b>Last change:</b> 27.07.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KTV/N-mXTV-112/22		<b>Course title:</b> River rafting			
<b>Educational activities:</b> <b>Type of activities:</b> other <b>Number of hours:</b> <b>per week: per level/semester:</b> 3d <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 1					
<b>Recommended semester:</b> 2., 4.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 58					
A	B	C	D	E	FX
82,76	0,0	0,0	0,0	0,0	17,24
<b>Lecturers:</b> Mgr. Miriam Kirchmayerová, PhD., Mgr. Martin Mokošák, PhD., Mgr. Igor Remák, PhD., PaedDr. Mgr. Lenka Vandáková, Mgr. Kristína Vanýsková, Mgr. Denisa Strečanská, Mgr. Alexander Homer, Mgr. Peter Nehila, Mgr. PaedDr. Simona Rášiová, Mgr. Genc Berisha, PhD.					
<b>Last change:</b> 01.08.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KGe/N-mBGE-114/22		<b>Course title:</b> Selected topics from genetics			
<b>Educational activities:</b> <b>Type of activities:</b> lecture <b>Number of hours:</b> <b>per week:</b> 2 <b>per level/semester:</b> 26 <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 3.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 32					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b> Mgr. Katarína Procházková, PhD.					
<b>Last change:</b> 15.08.2025					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KGe/N-mBGE-104/22		<b>Course title:</b> Seminar 1			
<b>Educational activities:</b> <b>Type of activities:</b> seminar <b>Number of hours:</b> <b>per week: 2 per level/semester: 26</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 1.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 82					
A	B	C	D	E	FX
97,56	2,44	0,0	0,0	0,0	0,0
<b>Lecturers:</b> RNDr. Regina Sepšiová, PhD.					
<b>Last change:</b> 15.08.2025					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KGe/N-mBGE-105/22		<b>Course title:</b> Seminar 2			
<b>Educational activities:</b> <b>Type of activities:</b> seminar <b>Number of hours:</b> <b>per week: 2 per level/semester: 26</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 2.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 77					
A	B	C	D	E	FX
97,4	0,0	0,0	0,0	0,0	2,6
<b>Lecturers:</b> doc. RNDr. Vladimíra Džugasová, PhD.					
<b>Last change:</b> 15.08.2025					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KGe/N-mBGE-100/22		<b>Course title:</b> Seminar from molecular biology of the cell (1)			
<b>Educational activities:</b> <b>Type of activities:</b> seminar <b>Number of hours:</b> <b>per week: 2 per level/semester: 26</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 1.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 83					
A	B	C	D	E	FX
68,67	26,51	3,61	0,0	0,0	1,2
<b>Lecturers:</b> Ing. Martina Neboháčová, PhD., RNDr. Regina Sepšiová, PhD., Mgr. Katarína Gaplovská, PhD.					
<b>Last change:</b> 02.08.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KJ/N-mXCJ-090/24		<b>Course title:</b> Slovak for Foreign Students			
<b>Educational activities:</b> <b>Type of activities:</b> seminar <b>Number of hours:</b> <b>per week:</b> 4 <b>per level/semester:</b> 52 <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 1., 2., 3., 4..					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 6					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b> Mgr. Karin Rózsová Wolfová					
<b>Last change:</b> 05.09.2024					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KGe/N-mBGE-120/22		<b>Course title:</b> Special seminar 2			
<b>Educational activities:</b> <b>Type of activities:</b> seminar <b>Number of hours:</b> <b>per week: 2 per level/semester: 26</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 4.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 78					
A	B	C	D	E	FX
98,72	0,0	1,28	0,0	0,0	0,0
<b>Lecturers:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					
<b>Last change:</b> 18.07.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KTV/N-mUXX-204/22		<b>Course title:</b> Summer Physical-Education Training			
<b>Educational activities:</b> <b>Type of activities:</b> other <b>Number of hours:</b> <b>per week: per level/semester:</b> 7d <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 2., 4.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 42					
A	B	C	D	E	FX
85,71	0,0	0,0	0,0	0,0	14,29
<b>Lecturers:</b> Mgr. Kristína Vanýsková, Mgr. Miriam Kirchmayerová, PhD., Mgr. Martin Mokošák, PhD., Mgr. Igor Remák, PhD., PaedDr. Mgr. Lenka Vandáková, Mgr. Denisa Strečanská, Mgr. Alexander Homer, Mgr. Peter Nehila, Mgr. PaedDr. Simona Rášiová, Mgr. Genc Berisha, PhD.					
<b>Last change:</b> 01.08.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KZ/N-XXXX-006/21		<b>Course title:</b> Theory of species			
<b>Educational activities:</b> <b>Type of activities:</b> seminar <b>Number of hours:</b> <b>per week: 2 per level/semester: 26</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 2., 4.					
<b>Educational level:</b> I., II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 260					
A	B	C	D	E	FX
51,54	21,15	10,77	2,31	0,77	13,46
<b>Lecturers:</b> doc. Mgr. Peter Vďačný, PhD.					
<b>Last change:</b> 07.11.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KJ/N-mXCJ-084/22		<b>Course title:</b> UNICert Deutsch 1			
<b>Educational activities:</b> <b>Type of activities:</b> seminar <b>Number of hours:</b> <b>per week:</b> 2 <b>per level/semester:</b> 26 <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 1.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 4					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b> Mgr. Karin Rózsová Wolfová					
<b>Last change:</b> 24.07.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KJ/N-mXCJ-085/22		<b>Course title:</b> UNICert Deutsch 2			
<b>Educational activities:</b> <b>Type of activities:</b> seminar <b>Number of hours:</b> <b>per week: 2 per level/semester: 26</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 3					
<b>Recommended semester:</b> 2.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 2					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b> Mgr. Karin Rózsová Wolfová					
<b>Last change:</b> 24.07.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KJ/N-mXCJ-082/22		<b>Course title:</b> UNICert English 1			
<b>Educational activities:</b> <b>Type of activities:</b> seminar <b>Number of hours:</b> <b>per week: 2 per level/semester: 26</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 1.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 123					
A	B	C	D	E	FX
90,24	3,25	1,63	2,44	0,0	2,44
<b>Lecturers:</b> PhDr. Štefánia Dugovičová, PhD., Mgr. Lenka Jeleňová, Mgr. Barbara Kordíková, PhD., PaedDr. Stanislav Kováč, PhD., RNDr. Tatiana Slováková, PhD.					
<b>Last change:</b> 26.09.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KJ/N-mXCJ-083/22		<b>Course title:</b> UNICert English 2			
<b>Educational activities:</b> <b>Type of activities:</b> seminar <b>Number of hours:</b> <b>per week: 2 per level/semester: 26</b> <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 3					
<b>Recommended semester:</b> 2.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 113					
A	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0
<b>Lecturers:</b> PhDr. Štefánia Dugovičová, PhD., Mgr. Lenka Jeleňová, Mgr. Barbara Kordíková, PhD., PaedDr. Stanislav Kováč, PhD., RNDr. Tatiana Slováková, PhD.					
<b>Last change:</b> 26.09.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KTV/N-mUXX-203/22		<b>Course title:</b> Winter Physical-Education Training			
<b>Educational activities:</b> <b>Type of activities:</b> other <b>Number of hours:</b> <b>per week: per level/semester:</b> 7d <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 2					
<b>Recommended semester:</b> 1., 3.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 75					
A	B	C	D	E	FX
88,0	0,0	0,0	0,0	0,0	12,0
<b>Lecturers:</b> Mgr. Martin Mokošák, PhD., Mgr. Miriam Kirchmayerová, PhD., Mgr. Igor Remák, PhD., PaedDr. Mgr. Lenka Vandáková, Mgr. Kristína Vanýsková, Mgr. Alexander Homer, Mgr. Peter Nehila, Mgr. PaedDr. Simona Rášiová, Mgr. Denisa Strečanská, Mgr. Genc Berisha, PhD.					
<b>Last change:</b> 01.08.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					

## COURSE DESCRIPTION

<b>Academic year:</b> 2024/2025					
<b>University:</b> Comenius University Bratislava					
<b>Faculty:</b> Faculty of Natural Sciences					
<b>Course ID:</b> PriF.KTV/N-mXTV-111/22		<b>Course title:</b> Ďumbier mountain hiking			
<b>Educational activities:</b> <b>Type of activities:</b> other <b>Number of hours:</b> <b>per week: per level/semester:</b> 3d <b>Form of the course:</b> on-site learning					
<b>Number of credits:</b> 1					
<b>Recommended semester:</b> 1., 3.					
<b>Educational level:</b> II.					
<b>Prerequisites:</b>					
<b>Course requirements:</b>					
<b>Learning outcomes:</b>					
<b>Class syllabus:</b>					
<b>Recommended literature:</b>					
<b>Languages necessary to complete the course:</b>					
<b>Notes:</b>					
<b>Past grade distribution</b> Total number of evaluated students: 105					
A	B	C	D	E	FX
82,86	0,0	0,0	0,0	0,0	17,14
<b>Lecturers:</b> Mgr. Miriam Kirchmayerová, PhD., Mgr. Martin Mokošák, PhD., Mgr. Igor Remák, PhD., PaedDr. Mgr. Lenka Vandáková, Mgr. Kristína Vanýsková, Mgr. Denisa Strečanská, Mgr. Alexander Homer, Mgr. Peter Nehila, Mgr. PaedDr. Simona Rášiová, Mgr. Genc Berisha, PhD.					
<b>Last change:</b> 01.08.2022					
<b>Approved by:</b> prof. RNDr. Ľubomír Tomáška, DrSc.					