

1st YEAR (10 compulsory courses)

NUMB.	COURSE	YEAR	SEMESTER	LANGUAGE
1	Algebra I – Matrix Calculus	1st	Autumn	English
2	Analysis I - Foundations of Analysis	1st	Autumn	English
3	Programming I	1st	Autumn	English
4	Computer Practicum	1st	Autumn	English
5	Theoretical Computer Science I	1st	Autumn	English
6	Data Programming	1st	Spring	English
7	Organic Chemistry and Biochemistry	1st	Spring	English
8	Analysis II – Infinitesimal Calculus	1st	Spring	English
9	Genetics	1st	Spring	English
10	Algebra II – Linear Algebra	1st	Spring	English

2nd YEAR (10 compulsory, 1 elective course)

NUMB.	COURSE	YEAR	SEMESTER	LANGUAGE
1	Data Structures and Algorithms	2nd	Autumn	English
2	Introduction to Database Systems	2nd	Autumn	English
3	Analysis III – Functions of Many Variables	2nd	Autumn	English
4	Foundations of Physics with Biophysics	2nd	Autumn	English
5	Introduction to Machine Learning and Data Mining	2nd	Autumn	English
6	Introduction to Bioinformatics	2nd	Spring	English
7	Statistics	2nd	Spring	English
8	Programming II – Concepts of Programming Languages	2nd	Spring	English
9	Algorithms in Bioinformatics	2nd	Spring	English
10	Nucleotide Sequence Analysis	2nd	Spring - 4th quarter	English
11	<i>Internal elective course</i>	2nd		

3rd YEAR (7 compulsory, 4 elective courses and Seminar - Final project paper)

NUMB.	COURSE	YEAR	SEMESTER	LANGUAGE
1	Structures of Biological Molecules	3rd	Autumn - 1rd quarter	English
2	Biotechnology	3rd	Autumn - 2nd quarter	English
3	Evolutionary and Population Genetics	3rd	Autumn	English
4	Evolutionary Biology	3rd	Autumn	English
5	Functional Genomics	3rd	Spring - 3rd quarter	English
6	Mathematical Modelling in Bioinformatics	3rd	Spring - 3rd quarter	English
7	Systems III –Information Systems	3rd	Spring	English
8	Seminar - Final Project Paper	3rd	Autumn, Spring	English
9	<i>Internal elective course</i> ¹	2nd		
10	<i>Internal elective course</i>	3rd		
11	<i>External elective course</i>	3rd		
12	<i>External elective course</i>	3rd		

ELECTIVE COURSES

NUMB.	COURSE	ECTS CREDITS	AVAILABLE FOR THE YEAR OF STUDY	INTERNAL/ EXTERNAL ELECTIVE	COURSE LEADER	LANGUAGE	SEMESTER
1	Mathematical Chemistry	6	2nd, 3rd	internal or external	Nino Bašić	English	Autumn
2	Introduction to Environmental, Conservation and Animal Ethics	6	2nd, 3rd	internal or external	Carolyn Stephens	English	Autumn
3	Computer Science I (from the Mathematics study programme)	6	3rd	internal or external	Nino Bašić	English	Autumn
4	Theoretical Computer Science II - Formal Languages and Computability	6	3rd	internal or external	Balazs David	English	Spring
5	Biomolecular Modeling	6	2nd, 3rd	internal or external	Jure Pražnikar	English	Spring
6	Practical Training	6	3rd	internal or external	Matjaž Hladnik		

NOTES:

[1] The students of the 3rd year choose an internal elective course for the 2nd year.

This elective course is the substitution for the compulsory course of the 3rd year Physical Chemistry with Chemoinformatics that they attended in the 2nd year.

SUBSEQUENT CHANGES OF OFFERED COURSES:

Possible subsequent changes of the offered courses will be published on Faculty website. Please follow the published information on the Faculty website.

