

## BIOLOGY – BACHELOR'S DEGREE

### 1st SEMESTER

course	Lectures	Auditory class	Conversatory classes	Laboratory classes	Seminars	Total time	Exams	ECTS
Mathematics	10	15				25		2
Physics	10			15		25		2
Physical and biological models	10			15		25		2
General and analytical chemistry	15			45		60	E	4
General botany	15			45		60	E	4
General zoology	15			45		60	E	4
Human anatomy and biology	15			45		60	E	4
Parazytology	10			20		30		3
Basic taxonomy	10					10		1
Information technology				20		20		2
Intellectual property	15					15		1
Basic entrepreneurship	15					15		1
<b>TOTAL</b>						405	4	30

### 2nd SEMESTER

Course	Lectures	Auditory class	Conversatory classes	Laboratory classes	Seminars	Total time	Exams	ECTS
Mathematics	10	10				20		1
Organic chemistry	15			30		45	E	4
Physical chemistry	15					15		1
Cell biology	15			40		55	E	5
Taxonomy of invertebrates	15			30		45		3
Taxonomy of invertebrates – field exercises			15					
Taxonomy in botany	15			45		60	E	5
Practicum in botany			35			35		2
Ecology	20			25		45	E	4
Ecology – field exercises			10			10		1
Foreign language			40					3
<b>TOTAL</b>						390	4	30

### 3rd SEMESTER

Course	Lectures	Auditory class	Conversatory classes	Laboratory classes	Seminars	Total Time	Exams	ECTS
Biochemistry	10			40		50	E	4
Taxonomy of invertebrates	15			30		45	E	3
Mycology	15			30		35	E	3
Mycology – field exercises			10			10		1
Taxonomy of invertebrates – field exercises			10			10		1
Specialization workshop		22				22		1
Foreign language			40			40		3
<b>TOTAL</b>						212		16

Socialization module for choose	Biology and nature	ECTS 14
	Biology and ecology	ECTS 14

#### 4th SEMESTER

Course	Lectures	Auditory class	Conversatory classes	Laboratory classes	Seminars	Total time	Exams	ECTS
Animal physiology	15			40		55	E	3
Plant physiology	15			40		55	E	2
Taxonomy of vertebrates	15			40		55	E	2
Taxonomy of vertebrates – field exercises			15			15		1
Dendrology	10			10		20		1
Dendrology – field exercises			15					1
Foreign languages			30			30	E	4
<b>TOTAL</b>						245	4	14

#### Courses to choose

Course	Lectures	Auditory class	Conversatory classes	Laboratory classes	Seminars	Total Time	Exams	ECTS
Bachelor's seminar					5	5		1
Whole university lectures – Polish (2)	15					15		1
Whole university lecture – English (1)	15					15		2
Physical education		30				30		1
<b>TOTAL</b>						60-75		4

Socialization module for choose	Biology and nature	ECTS 12
	Biology and ecology	ECTS 12

## 5th SEMESTER

Course	Lectures	Auditory class	Conversatory classes	Laboratory classes	Seminars	Total time	Exams	ECTS
Introduction to statistical analysis	10		20			30	E	3
Genetics	15			30		45		3
Basic microbiology and immunology	15			30		45	E	3
Sexuology	10	15				25		1
<b>TOTAL</b>						145	2	10

## Courses to choose

Course	Lectures	Auditory class	Conversatory classes	Laboratory classes	Seminars	Total Time	Exams	ECTS
Bachelor's seminar					10	10		1
Bachelor's workshop				20		20		2
Whole university lectures – Polish (2)	15					15		1
Whole university lecture – English (1)	15					15		2
<b>TOTAL</b>						45-60		5

Socialization module for choose	Biology and nature	ECTS 15
	Biology and ecology	ECTS 15

## 6th SEMESTER

Course	Lectures	Auditory class	Conversatory classes	Laboratory classes	Seminars	Total time	Exams	ECTS
Environmental protection	10			15		25	E	2
Environmental protection – field exercises			10			10		1
Genetics	10			15		25	E	3
Basic evolutionism	15	10				25	E	2
Flora and fauna of the chosen habitats			18			18		1
Basic toxicology	10		10			20		1
Biology of birds	10		10			20		1
<b>TOTAL</b>						143	2	11

## Courses to choose

Course	Lectures	Auditory class	Conversatory classes	Laboratory classes	Seminars	Total Time	Exams	ECTS
Bachelor's seminar					10	10		1
Bachelor's workshop				20		20		1
<b>TOTAL</b>						30		2

Socialization module for choose	Biology and nature	ECTS 9
	Biology and ecology	ECTS 9