

Biology I

1. Name of module: **Biology I / BIO-B-BIO-1**
 2. Person responsible: **PD Dr. Christoph Schubart**
 3. Module contents: **Basics of cell and tissue structures, structures of organisms, basic construction plans of animals and plants.**

No.	Course	hours / week	CP
	A Compulsory courses		
1a	Lecture: General Biology – Botany/Cytology	2,5 (1 = WS)	2,5g
1b	Lecture: General Biology – Zoology	2,5 (1 = WS)	2,5g
2	Exercises: Cytology and Anatomy of Plants	4 (1 = WS)	5g
3	Exercises: Cytology and Anatomy of Animals	4 (1 = WS)	5g
	sum	13	15

g = graded

Biology II

1. Name of module: **Biology II / BIO-B-BIO-2**
 2. Person responsible: **Prof. Dr. Peter Poschlod**
 3. Module contents: **Basics of Ecology, basics of indigenous fauna and flora.**

No.	Course	hours / week	CP
	A Compulsory courses		
1	Lecture: Ecology	2 (2 = SS)	3g
2	Exercises: Form and Systematics of Plants	3 + 1 (2 = SS)	5g
3	Exercises: Form and Systematics of Animals	3 + 1 (2 = SS)	5g
4a	Excursions: Two Botanical Excursions	1 (2 = SS)	1
4b	Excursions: Two Zoological Excursions	1 (2 = SS)	1
	sum	12	15

g = graded

Biology III

1. Name of module: **Biology III / BIO-B-BIO-3**
2. Person responsible: **Prof. Dr. Inga Neumann**
3. Module contents: **Basics in current research fields of organismic biology (developmental biology, neurobiology/ethology, evolutionary biology, animal- and plant physiology).**

No.	Course	hours / week	CP
	A Compulsory courses		
1	Lecture: Animal Physiology	3 (3 = WS)	3g
2	Lecture: Plant Physiology	3 (3 = WS)	3g
3	Lecture: Evolutionary Biology	2 (4 = SS)	3g
4	Lecture: Ethology and Neurobiology	2 (4 = SS)	3g
5	Lecture: Developmental Biology	2 (4 = SS)	3g
	sum	12	15

g = graded

Biology IV

1. Name of module: **Biology IV / BIO-B-BIO-4**
2. Person responsible: **Prof. Dr. Michael Thomm**
3. Module contents: **Basics in biochemistry, genetics and microbiology.**

No.	Course	hours / week	CP
	A Compulsory courses		
1	Lecture and exercises: Biochemistry A	4 + 1 (3 = WS)	4g
2	Lecture and exercises: Biochemistry B	2 + 1 (4 = SS)	3g
3	Lecture and exercises: Genetics	3 + 1 (4 = SS)	4g
4	Lecture and exercises: Microbiology	3 + 1 (4 = SS)	4g
	sum	16	15

g = graded

Natural Science I

1. Name of module: **Natural Science I / BIO-B-NW-1**
2. Person responsible: **Prof. Dr. Hans-Robert Kalbitzer**
3. Module contents: **Basics in mathematics and physics, important for biological sciences.**

No.	Course	hours / week	CP
	A Compulsory courses		
1	Lecture and exercises: Mathematics	2 + 2 (1 = WS)	5
2	Lecture: Physics	4 (1 = WS)	5g
3	Practical and exercises: Physics	5 + 2 (3 = WS)	5g
	sum	15	15

g = graded

Natural Science II

1. Name of module: **Natural Science II / BIO-B-NW-2**
2. Person responsible: **Prof. Dr. Nikolaus Korber**
3. Module contents: **Basics and practical knowledge in inorganic and organic chemistry.**

No.	Course	hours / week	CP
	A Compulsory courses		
1	Lecture: Organic Chemistry I	4 (2 = SS)	5g
2	Lecture: Inorganic Chemistry	4 (1 = WS)	5
3	Practical: Inorganic Chemistry	4 + 2 (2 = SS)	5g
	sum	14	15

g = graded

Natural Science III

1. Name of module: **Natural Science III / BIO-B-NW-3**
2. Person responsible: **Prof. Burkhard König**
3. Module contents: **Basics in organic and physical chemistry, advanced practical skills in organic chemistry, special skills in a subject of natural science, relevant for students of biology.**

No.	Course	hours / week	CP
	A Compulsory courses		
1a	Lecture: Organic Chemistry II	3 (3 = WS)	3g
1b	Practical: Organic Chemistry	5 (3 = WS)	5g
2	Lecture and exercises: Physical Chemistry	2 + 1 (3 = WS)	3g
	B Elective courses		
3	Lectures in natural sciences	4 (3/4 = WS/SS)	4
	sum	15	15

g = graded

Practical Module

1. Name of module: **Practical Module / BIO-B-PR**
2. Person responsible: **Prof. Dr. Wolfgang Seufert**
3. Module contents **Practical skills, introduction, preparation and presentation of scientific results.**

No.	Course	hours / week	CP
	B Elective courses (3 practical courses have to be selected)		
1	Practical course: Genetics	4 (4 = vor WS)	4
2	Practical course: Microbiology	4 (4 = vor WS)	4
3	Practical course: Animal Physiology	4 (4 = SS)	4
4	Practical course: Plant Physiology and Biochemistry	4 (3 = WS)	4
5	Practical course: Physical Chemistry	4 (4 = vor SS)	4
6	Practical course: Evolutionary Biology and Molecular Ecology	4 (4 = SS)	4
7	Seminar	2 (3/4 = WS/SS)	3
	sum	14	15

Project Module I

1. Name of module: **Project Module I / BIO-B-PM-1**
2. Person responsible: **Prof. Dr. Christoph Oberprieler**
3. Module contents **Advanced theoretical and practical knowledge of modern biology and other scientific disciplines.**

No.	Course	hours / week	CP
	A Compulsory courses		
1	Lecture and exercise: Statistics and Bioinformatics	2 + 2 (5 = WS)	4
	B Elective courses		
2	Special biological lecture	4 (5/6 = WS/SS)	4
3	Special non-biological lecture	2 (5/6 = WS/SS)	2
4	Practical course I	9 (5/6 = WS/SS)	8
	sum	19	18

Project Module II

1. Name of module: **Project Module II / BIO-B-PM-2**
2. Person responsible: **Prof. Dr. Thomas Dresselhaus**
3. Module contents **Advanced theoretical and practical knowledge of modern biology by interdisciplinary soft skills and job qualifying skills.**

No.	Course	hours / week	CP
	B Elective courses		
1	Job orientation	4 (5/6 = WS/SS)	4
2	Seminar in English	2 (5/6 = WS/SS)	2
3	Practical course II	9 (5/6 = WS/SS)	8
	sum	15	14

Project Module III

- Name of module: **Project Module III / BIO-B-PM-3**
- Person responsible: **Betreuer der Bachelor-Arbeit – Prüfungsamt**
- Module contents **Practical skills in preparation for the bachelor thesis in a specific topic of biology, interdisciplinary soft skills.**

No.	Course	hours / week	CP
	B Elective courses		
1	Research course	18 (5/6 = WS/SS)	12
2	Seminar	2 (5/6 = WS/SS)	4
	sum	20	16