

Recommended Course Sequence

Subject Biology and Environmental Protection								
Sem.	Module/Courses	Typ	SSt	ECTS	ECTS-Credit Points (workload)			
					5	10	15	20
I	1 Fundamentals of Natural Sciences							
	1.a. Applied Mathematics and Statistics	VO		1			1,5	
	1.b. Inorganic and Organic Chemistry for Biologists	VO		1			2	
	1.c. Geology, Origin of Life, Geological Eras	VO		1			1,5	
	2 General Biology 1							
	2.a. Cell Biology and Cell Physiology	VO		2			2,5	
2.b. Biochemistry	VO		2			2,5		
3 General Biology 2								
Systematics and Evolution <i>[STEOP]</i>	VO		3			5		
Total				10		15		15
II	8 Zoology 1							
	8.a. Anatomy and Body Plans of Animals	VO		2			2,5	
	8.b. Anatomy and Body Plans of Animals	UE		2			2,5	
	16 Learning Outside the Classroom							
Learning Outside the Classroom	EU		2			2,5		
Total				6		7,5		7,5
III	4 Botany 1							
	4.a. Plant Anatomy	VU		2			2,5	
	4.b. Plant Physiology for Prospective Teachers	VO		2			2,5	
	9 Zoology 2							
	9.a. Animal Physiology	VO		2			3,5	
	9.b. Developmental Biology	VO		1			1,5	
	15 Teaching Biology							
	15.a. Introduction to Teaching	VO		1			1	
15.b. Methods of Teaching Biology	SE		1			1,5		
Total				9		12,5		12,5
IV	5 Botany 2 <i>(Prerequisites: successful completion of compulsory modules 3)</i>							
	5.a. Flora and Vegetation in Central Europe	VO		1			1,5	
	5.b. Diversity of Domestic Plants	EU		2			2	
	5.c. Global Agricultural Plants	VO		1			1,5	
	12 Human Biology							
	12.a. Human Anatomy, Biology and Nutrition	VO		2			4	
	12.b. Pathology	VO		1			1	
12.c. Psychosomatics	VO		1			1		
12.d. Immunobiology	VO		1			1,5		
Total				9		12,5		12,5
V	6 Microbiology 1							
	6.a. Introduction to Microbiology: Significance of Microorganisms	VO		2			3	
	6.b. Applied Microbiology & Biotechnology	VO		1			2	
	10 Ecology 1							
10.a. Introduction to Ecology	VO		2			3		
10.b. Structure and Function of Selected Ecosystems	VO		1			2		
Total				6		10		10
VI	11 Ecology 2							
	11.a. Biodiversity of Native Habitats	PJ		3			4	
	11.b. Environmental and Nature Protection	VO		1			1	
	13 Molecular Biology <i>(Prerequisites: successful completion of compulsory module 2)</i>							
	13.a. Molecular Biology for Prospective Teachers	VO		1			2	
	13.b. Exercises in Molecular Biology for Prospective Teachers	UE		2			2,5	
	13.c. Genetics	VO		1			1,5	
	13.d. Genetic Engineering	VO		1			1,5	
	7 Microbiology 2 <i>(Prerequisites: successful completion of compulsory modules 1)</i>							
	7.a. Microbial Working Techniques	VU		3			4	
7.b. Medical Microbiology & Hygiene	VO		1			1		
Total				13		17,5		17,5
VII	17 Subject-Related Practical Course <i>(Prerequisites: successful completion of compulsory module 15)</i>							
	Subject-Related Practical Course	PR		1			5	
	14 Global Change and Environment							
	14.a. Global Ecology	VO		2			2,5	
	14.b. Global Ecology	SE		1			1	
	14.c. Pollution of Habitats and Environmental Toxicology	VO		1			1,5	
	19 Teaching Biology: Research and Practice							
19.a. Introduction to Research of Teaching Biology	VO		1			1		
19.b. One Practical Course must be selected	UE		2			2		
19.b. One Practical Course must be selected	UE		2			2		
Total				10		15		15
VIII	18 Research-Oriented Learning in the Biology Classroom <i>(Prerequisites: successful completion of compulsory modules 15)</i>							
	18.a. Didactical Basics of Research-Oriented Learning	UE		2			2	
	18.b. Biological Project	PJ		1			3	
	Bachelor's Thesis							
Eine Bachelorarbeit im Umfang von 5 ECTS-AP ist als eigenständige schriftliche Arbeit im Rahmen von Lehrveranstaltungen abzufassen.							5	
Total				3		10		10
Total				66		100		

Recommended Course Sequence

Education Studies							ECTS-Credit Points (workload)			
Sem.	Module/Courses	Type	h	ECTS	thereof pedagogical-practical studies per ECTS-Credits					
						5	10	15	20	
I	1 Introduction to Teaching: Becoming a Professional									
	1.a. School as an Educational Institution and Role of the Teacher [STEOP]		VO	2	2	0				
	1.b. School as an Educational Institution and Role of the Teacher		PS	2	2	2				
	Total			4	4	2	4			
II	1 Introduction to Teaching: Becoming a Professional									
	1.c. Dealing with the Challenges as a Teacher at School – Teaching Practice I		PR	2	3,5	3,5				
	Total			2	3,5	3,5	3,5			
III	2 Learning, Teaching and Research in the Context of Diversity (<i>Prerequisites: successful completion of Compulsory Module 1</i>)									
	2.a. Learning and Teaching in the Context of Diversity		VO	2	2	0				
	2.b. Learning and Teaching in the Context of Diversity		PS	1	2	1				
	2.c. Educational Research and Development of School and Teaching		VO	1	1,5	0				
	2.d. Educational Research and Development of School and Teaching		PS	1	2	1				
Total			5	7,5	2	7,5				
IV	3 Diagnosing, Counselling, Educating, Teaching, and Assessing (<i>Prerequisites: successful completion of Compulsory Module</i>)									
	3.a. Diagnosing and Counselling		VO	2	2	0				
	3.b. Diagnosing and Counselling		PS	2	2	1				
Total			4	4	1	4				
V	3 Diagnosing, Counselling, Educating, Teaching, and Assessing (<i>Prerequisites: successful completion of Compulsory Module</i>)									
	3.c. Educating and Assessing – Teaching Practice II		PR	2	3,5	2,5				
Total			2	3,5	2,5	3,5				
VI	4 Profession-specific profiling as a teacher in the occupational field of school I (<i>Prerequisites: successful completion of Compulsory Modules 1</i>)									
	Profession-specific knowledge and action		PS	2	2,5	2,5				
Total			2	2,5	2,5	2,5				
VII	5 Profession-specific profiling as a teacher in the occupational field of school II (<i>Prerequisites: successful completion of Compulsory Modules 2, 3 and 4</i>)									
	5.a. Profession-specific knowledge and action Teaching Practice IIIa and IIIb		PR	2	7,5	7,5				
	Total			2	7,5	7,5	7,5			
VIII	5 Profession-specific profiling as a teacher in the occupational field of school II (<i>Prerequisites: successful completion of Compulsory Modules 2, 3 and 4</i>)									
	5.b. Integration of profession-specific competences		PS	2	2,5	2				
Total			2	2,5	2	2,5				
I - VIII	6 Current Topics in School and Education Research									
	One course with a total of 2.5 ECTS-Credits must be selected from the following topical areas:									
	VO Gender Sensitivity in the Educational System									
	VO Inclusion and Heterogeneity in the Educational System									
	VO Multilingualism and Interculturality in the Educational System									
Total			2	2,5		2,5				
III - VIII	7 Current Topics in School and Education Research									
	Courses for advanced study of the topics of modules 1 to 4 or courses on topics in current education science of the accordingly marked course offer resp.									
Total			2	2,5	0,5	2,5				
Total				27	40	23,5				

* additionally, 10 ECTS-Credit per subject out of didactics is given

Composition of pedagogical-practical studies

Bachelor's Programmes: 23,5 ECTS-Credits educational basics + 10 ECTS-Credits didactics

Master's Programmes: 5 ECTS-Credits educational basics + 2 ECTS-Credits didactics