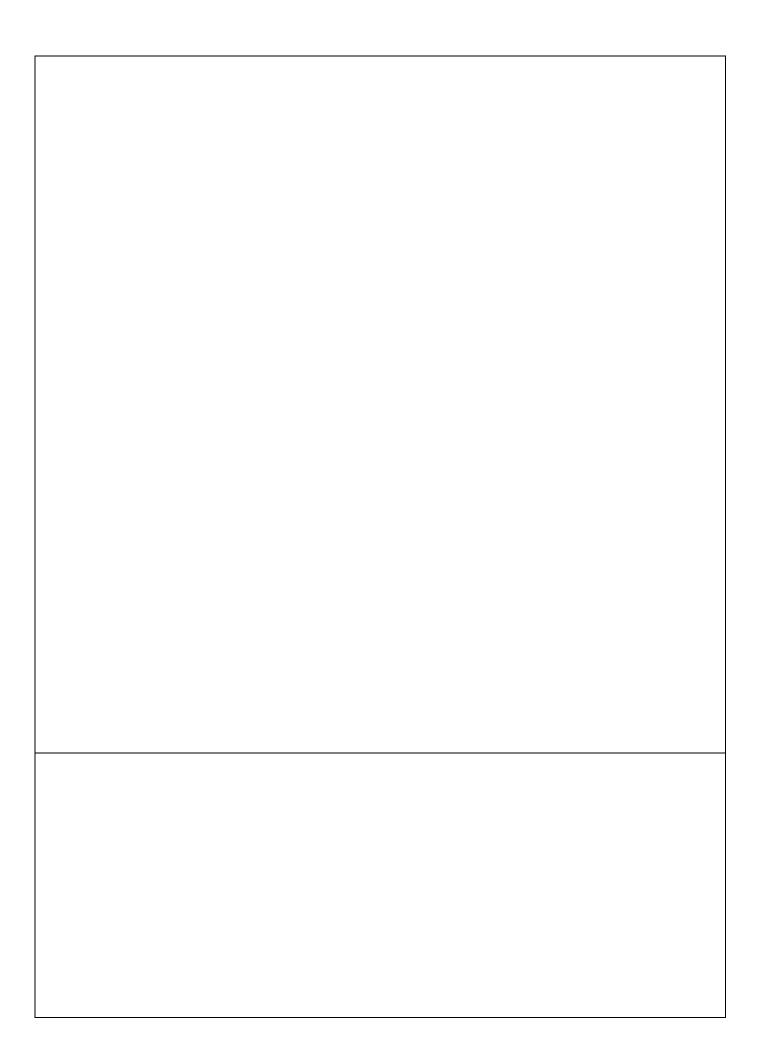


 			
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	rses in ducatio			Jniversity Education			Introduction to University Education	2	Required								
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			Area	Courses	1		D. D. D. L. L.	1 or 2	Elective/required								
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		şes				2		1	Required								
		Foreign Languages	:					1									
	Common Subjects	Lan				2		1	Required								
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Arts			rmation and Data Science Courses		-	2	Fundamental Date Science	2	Elective/required								
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Liberal							Trom becau cooperation courses	1									
						2		1	Required								
							General Chemistry	2									
						2	Fundamental Physical Chemistry	2	Elective/required								
							1 subjects (2 credits) from the two subjects above	1	1	ı		ı		ı			
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Basic Biological Science 1 Required	
English Seminar on Biological Science 1 Seminar on Biological Science 2	
Seminar on Biological Science 2	
Practice for Fundamental Biology II Practice for Fundamental Biology III Practice for Fundamental Biology III Practice for Fundamental Biology IV Special Study for Carduation Advanced Mathematics Advanced Mathematics Advanced Physics 2 Advanced Biology Advanced Earth and Planetary Science Biochemistry A Genetics A Genetics A Cell Biology A Developmental Biology A Required Required	
Practice for Fundamental Biology III Practice for Fundamental Biology IV Special Study for Carduation Advanced Mathematics At At Cast Cast Part Physiology A Part Physiology A Part Physiology A Part Physiology A Part Physiology B Part Cast Part Part Physiology B Part Cast Part Physiology B Part Physiology B Part Cast Part Physiology B Part	
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At least Plant Physiology B 2 Elective/required Plant Ecology B 2 Elective/required	
Biochemistry B Genetics B Molecular Cell Biology Comparative Embryology Plant Morphology Plant Morphology Cell Biology B Developmental Biology B Animal Physiology B	
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Animal Physiology B 2	
Genome Biology 2 Systems Biology 2	
Regeneration Biology 2	
Seminar for Developmental Biology 2	
Seminar for Cell Biology 2	
Seminar for Molecular Physiology 2	
Seminar for Plant Physiological Chemistry 2	
Seminar for Plant and Microbial Molecular Genomics 2	
Seminar for Molecular Genetics 2 Elective/required	
Seminar for Molecular Plant Biology 2 Seminar for Gene Chemistry 2	
Seminar for Gene Chemistry 2 Seminar for Evolution and Development 2	
Seminar for Island Biology 2	
Seminar for Plant Genetic Resources 2 Seminar for Amphibian Biology 2	
Seminar for Amphibian Biology 2	
Summer Course for Marine Biology A 1	
At least Practice for Phytogeography 1 Elective/required	
1 Practice for Ecology 1	
Summer Course for Marine Biology B 1	
Summer Course for Marine Biology B 2	
Biology Internship Tree elective	
Diology Internsinp 1	
Subjects" offered by other programs of School of	
Science	
Any subject 10	

Academic achievements of Biology Program Relationships between the evaluation items and evaluation criteria

skills to manage experiments. 2) Ability to record observed natural phenomena. 3) Ability to collect and assess data.

	Excellent	Very Good	Good
(1) Studying to understand liberal arts, peace, foreign languages, culture and society.	Superbly being able to understand.	Being able to understand well.	Being able to understand.
(2) Understanding and learning basic knowledge in scientific fields.	Superbly being able to understand and learn.	Being able to understand and acquire.	Being able to understand and acquire.
(3) To understand and acquire advanced knowledge on specialties in biology.	Superbly being able to understand and learn.	Being able to understand and acquire.	Being able to understand and acquire.
To acquire abilities to understand (1) information security compliance, to collect and evaluate data.	Superbly being able to understand the information security compliance, collect data, and assess them.	Being able to understand well about information security compliance and collect data and evaluate it.	To be able to collect and evaluate data by understanding Information Security Compliance.
Acquiring ability to apply basic knowledge (2) to biological issues and reading comprehension of English theses.	Superbly being able to solve several biological issues and read English theses.	Being able to sufficiently solve various biology issues, read english avademic articles.	To be able to solve physiological problems and to understand English academic papers.
Based on basic knowledge which is already acquired, to obtain the following experimental skills in order to practice			
(3) research: 1) Basic observation skills and	Superbly being able to acquire the ability of experimen	t	

Relationships between the evaluation items and class subjects

Subject Classification	Subject Name				Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	itoms	Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	Weighted values of evaluation items	
Liberal Arts Education	Peace Science Courses	2	Elective/requ ired	1-2T	100	1															100
Liberal Arts Education	Introduction to University Education	2	Required	1-1T	100	1															100
Liberal Arts Education	Introductory Seminar for First-Year Students	2	Required	1-2T													100	2			100
Liberal Arts Education	Advanced seminar	1	Free elective	1-2													100	2			100
Liberal Arts Education	Area Courses	12	Elective/requ ired	1-2	100	1															100
Liberal Arts Education	Basic English Usage I	1	Required	1	100	1															100
Liberal Arts Education	Basic English Usage II	1	Required	2	100	1															100
Liberal Arts Education		2	Required	1	100	2															100
Liberal Arts Education		2	Required	2	100	2															100
Liberal Arts Education	Foreign Languages: Basic	1	Free elective	1	100	1															100
Liberal Arts Education	Foreign Languages: Basic	1	Free elective	1	100	1															100
Liberal Arts Education	Foreign Languages: Basic	1	Free elective	2	100	1															100
Liberal Arts Education	Foreign Languages: Basic	1	Free elective	2	100	1															100
Liberal Arts Education	Introduction to Information and Data Sciences	2	Required	1-2T							100	2									100
Liberal Arts Education	Starting Programming from Scratch	2	Elective/requ ired	2-3T							100	2									100
Liberal Arts Education	Fundamental Date Science	2	Elective/requ ired	2-4T							100	2									100
Liberal Arts Education	Social Cooperation Courses	0	Free elective	1-2	100	1															100
Liberal Arts Education	Experimental Methods and	2	Required	2-3T											100	2					100
Liberal Arts Education	Experimental Methods and	2	Required	2-4T											100	2					100
Liberal Arts Education	General Chemistry	2	Elective/requ ired	1-1T			100	1													100
Liberal Arts Education	Fundamental Physical Chemistry	2	Elective/requ ired	2-3T			100	1													100
Liberal Arts Education	Experimental Methods and	2	Elective/requ ired	2-3T											100	1					100

											F	Evaluati	ion iten	ns							
					ŀ	Knowled	dge and	l Under	standir	ng		A	bilities	and Sk	ills		Com	prehens	sive Ab	ilities	Total
Subject			Type of		(1)	(2)	(3)	(1)	()	2)	(3	3)	(1)	()	2)	weighted
Classification	Subject Name	Credits	course registration	Grade	Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	evaluation	Weighted values of evaluation items in the subject	Weighted values of evaluation titems	Weighted values of evaluation items in the subject	Weighted values of evaluation items	values of evaluation items in the subject						
Liberal Arts Education	Experimental Methods and	2	Elective/requ ired	2-4T											100	1					100
Liberal Arts Education	Experimental Methods and Laboratory	2	Elective/requ ired	2-3T											100	1					100
Liberal Arts Education	Experimental Methods and Laboratory	2	Elective/requ ired	2-4T											100	1					100
Liberal Arts Education	Experimental Methods and Laboratory	2	Elective/requ ired	3-1T											100	1					100
Liberal Arts Education	Experimental Methods and Laboratory	2	Elective/requ ired	3-2T											100	1					100
Specialized Education	Introduction to Mathematics	2	Elective/requ ired	1-1T			100	1													100
Specialized Education	Introduction to Information Mathematics	2	Elective/requ ired	2-3T			100	1													100
Specialized Education	Introduction to Physics A	2	Elective/requ ired	1-2T			100	1													100
Specialized Education	Introduction to Physics B	2	Elective/requ ired	2-4T			100	1													100
Specialized Education	Introduction to Chemistry A	2	Elective/requ ired	1-1T			100	1													100
Specialized Education	Introduction to Chemistry B	2	Elective/requ ired	2-3T			100	1													100
Specialized Education	Introduction to Biological Sciences A	2	Elective/requ ired	1-2T			100	1													100
Specialized Education	Introduction to Biological Sciences B	2	Elective/requ ired	2-4T			100	1													100
Specialized Education	Introduction to Earth and Planetary Sciences A	2	Elective/requ ired	1-2T			100	1													100
Specialized Education	Introduction to Earth and Planetary Sciences B	2	Elective/requ ired	2-4T			100	1													100
Specialized Education	English Seminar on Biological Science	1	Required	2									100	2							100
Specialized Education	Basic Biological Science A	2	Required	1-1T					100	2											100
Specialized Education	Basic Biological Science B	2	Required	1-2T					100	2											100
Specialized Education	Seminar on Biological Science	2	Required	3-1T									100	2							100
Specialized Education	Practice for Fundamental Biology I	4	Required	3											100	2					100
Specialized Education	Practice for Fundamental Biology II	4	Required	4											100	2					100
Specialized Education	Practice for Fundamental Biology III	6	Required	5											100	2					100
Specialized Education	Practice for Fundamental Biology IV	4	Required	6											100	2					100
Specialized Education	Special Study for Graduation		Required	7-8															100	3	100
Specialized Education	Advanced Mathematics	2	Elective/requ ired	5-1T					100	1											100

											F	Evaluati	ion iten	ns							
					ŀ	Knowled	lge and	l Under	standir	ng		A	bilities	and Sk	ills		Com	prehen	sive Ab	ilities	Total
Subject			Type of		(1)	(2)	(3)	(1)	(2	2)	(;	3)	(1)	(2)	weighted values of
Classification	Subject Name	Credits	course registration	Grade	Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	evaluation	Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	Weighted values of evaluation titems	Weighted values of evaluation items in the subject	Weighted values of evaluation items	evaluation items in the subject
Specialized Education	Advanced Physics	2	Elective/requ ired	4-4T					100	1											100
Specialized Education	Advanced Chemistry	2	Elective/requ ired	6-4T					100	1											100
Specialized Education	Advanced Biology	2	Elective/requ ired	5-2T					100	1											100
Specialized Education	Advanced Earth and Planetary Science	2	Elective/requ ired	6-3T					100	1											100
Specialized Education	Microbiology	2	Elective/requ ired	3-2T					100	2											100
Specialized Education	Plant Ecology A	2	Elective/requ ired	3-2T					100	2											100
Specialized Education	Biochemistry A	2	Elective/requ ired	2-3T					100	2											100
Specialized Education	Genetics A	2	Elective/requ ired	2-3T					100	2											100
Specialized Education	Molecular Genetics A	2	Elective/requ ired	3-1T					100	2											100
Specialized Education	Cell Biology A	2	Elective/requ ired	3-2T					100	2											100
Specialized Education	Animal Physiology A	2	Elective/requ ired	4-4T					100	2											100
Specialized Education	Regulation of Animal Morphology	2	Elective/requ ired	4-3T					100	2											100
Specialized Education	Plant Taxonomy	2	Elective/requ ired	3-1T					100	2											100
Specialized Education	Developmental Biology A	2	Elective/requ ired	4-3T					100	2											100
Specialized Education	Plant Physiology A	2	Elective/requ ired	4-3T					100	2											100
Specialized Education	Biochemistry B	2	Elective/requ ired	5-2T					100	2											100
Specialized Education	Genetics B	2	Elective/requ ired	5-1T					100	2											100
Specialized Education	Molecular Cell Biology	2	Elective/requ ired	5-1T					100	2											100
Specialized Education	Biological Informatics	2	Elective/requ ired	4-4T					100	2											100
Specialized Education	Comparative Embryology	2	Elective/requ ired	5-1T					100	2											100
Specialized Education	Plant Morphology	2	Elective/requ ired	5-2T					100	2											100
Specialized Education	Molecular Genetics B	2	Elective/requ ired	4-4T					100	2											100
Specialized Education	Cell Biology B	2	Elective/requ ired	5-1T					100	2											100
Specialized Education	Developmental Biology B	2	Elective/requ ired	5-2T					100	2											100
Specialized Education	Animal Physiology B	2	Elective/requ ired	5-2T					100	2											100

											F	Evaluat	ion iten	ns							
					ŀ	Knowled	lge and	l Under	standir	ng		A	bilities	and Sk	ills		Com	prehen	sive Ab	ilities	Total
Subject			Type of		(1)		2)	(3)	(1)	(2	2)	(3	3)	((1)	()	2)	weighted values of
Classification	Subject Name	Credits	course registration	Grade	Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	evaluation	Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	Weighted values of evaluation t items	Weighted values of evaluation items in the subject	Weighted values of evaluation items	evaluation items in the subject
Specialized Education	Plant Physiology B	2	Elective/requ ired	4-4T					100	2											100
Specialized Education	Plant Ecology B	2	Elective/requ ired	4-3T					100	2											100
Specialized Education		2	Elective/requ ired	5-1T					100	2											100
Specialized Education	Genome Biology	2	Elective/requ ired	5-2T					100	2											100
Specialized Education	Systems Biology	2	Elective/requ ired	5-1T					100	2											100
Specialized Education	Regeneration Biology	2	Elective/requ ired	5-1T					100	2											100
Specialized Education	Seminar for Developmental Biology	2	Elective/requ ired	8									100	2							100
Specialized Education	Seminar for Cell Biology	2	Elective/requ ired	8									100	2							100
Specialized Education	Seminar for Molecular Physiology	2	Elective/requ ired	8									100	2							100
Specialized Education	Seminar for Plant Taxonomy and Ecology	2	Elective/requ ired	8									100	2							100
Specialized Education	Seminar for Plant Physiological Chemistry Seminar for Frant and	2	Elective/requ ired	8									100	2							100
Specialized Education	Microbial Molecular	2	Elective/requ ired	8									100	2							100
Specialized Education	Seminar for Molecular Genetics	2	Elective/requ ired	8									100	2							100
Specialized Education	Seminar for Molecular Plant Biology	2	Elective/requ ired	8									100	2							100
Specialized Education	Seminar for Gene Chemistry	2	Elective/requ ired	8									100	2							100
Specialized Education	Seminar for Evolution and Development	2	Elective/requ ired	8									100	2							100
Specialized Education	Seminar for Island Biology	2	Elective/requ ired	8									100	2							100
Specialized Education	Seminar for Plant Genetic Resources	2	Elective/requ ired	8									100	2							100
Specialized Education	Seminar for Amphibian Biology	2	Elective/requ ired	8									100	2							100
Specialized Education	Summer Course for Marine Biology A	1	Elective/requ ired	3											100	2					100
Specialized Education	Practice for Phytogeography	1	Elective/requ ired	3											100	2					100
Specialized Education	Practice for Ecology	1	Elective/requ ired	4											100	2					100
Specialized Education	Summer Course for Marine Biology B	1	Free elective	5											100	2					100
Specialized Education	Marine Biological Course	2	Free elective	3											100	2					100
Specialized Education	Marine course for marine biological education	1	Free elective	1-2											100	2					100

											E	valuati	on iten	1S							
					K	nowled	lge and	Under	standin	g		Al	oilities	and Ski	lls		Com	prehens	sive Ab	ilities	Total
Subject	_		Type of		(1	()		2)	(3	3)	(1)		2)	(3	3)	(1)		2)	weighted values of
Classification	Subject Name	Credits	course registration	Grade	evaluation	values of evaluation	evaluation items in	values of evaluation	Weighted values of evaluation items in the subject	values of evaluation		evaluation	evaluation items in	values of evaluation	values of	values of evaluation	varaes or	values of evaluation	evaluation items in	evaluation	evaluation items in the subject
Specialized Education	Biology Internship	1	Free elective	5									100	2							100

Sheet4

Academic achievements		st grade	21	nd grade	3rd (grade	4th gra	ade
Evaluation items	Spring semester	Fall semester	Spring semester	Fall semester	Spring semester	Fall semester	Spring semester	Fall semester
	opining demoster	r un somostor	opining somestor	Tuli somostor	opining somester	r un somostor	opining demoster	Tun somostor
							-	
	Foreign Languages: Basic	Foreign Languages: Basic						
	Foreign Languages: Basic	Foreign Languages: Basic						
Studying to understand liberal arts, peace, foreign languages, culture and society.								
	Introduction to University							
		Fundamental Physical Chemistry	У					
		Introduction to Information			-			
ପ୍ରି ପ Understanding and learning basic knowledge in								
를 Grider standing and learning basic knowledge in 및 scientific fields.		<u> </u>						
Understanding and learning basic knowledge in scientific fields. Public by the public	Introduction to Biological	Introduction to Biological		<u>. </u>			<u> </u>	
Un .	Introduction to Earth and	Introduction to Earth and			 -		<u> </u>	
anc				Developmental B	Cell B			
өбрә			Plant E	Plant P	Developmental B			
owle			Cell B	1 iditt i	- Developmental B			
Ä			Molecular G	Molecular G	<u> </u>			
			Workedian C	Animal P	<u> </u>			
					Animal D			
				Regulation of Animal M	Animal P			
To understand and acquire advanced knowledge on specialties in biology.				Plant P				
specialities in biology.				Plant E	Plant M			

	Academic achievements	1st grade		2nd grade		3rd grade		4th grade	
	Evaluation items	Spring semester	Fall semester	Spring semester	Fall semester	Spring semester	Fall semester	Spring semester	Fall semester
	To acquire abilities to understand information security compliance, to collect and evaluate data.	Introduction to Information and	Starting Programming from						
			English Seminar on Biological						Seminar for Developmental B
									Seminar for Cell B Seminar for Molecular Physiology
Abilities and Skills									Seminar for Plant Taxonomy and
									Seminar for Plant Physiological C
									Seminar for Plant and Microbial Molecular G Seminar for Molecular Genetics
									Seminar for Molecular Genetics Seminar for Molecular Plant
									B Seminar for Gene C
									Seminar for Evolution and
Abilli									Seminar for Island B
									Seminar for Plant Genetic
									Seminar for Amphibian Biology
	Based on basic knowledge which is already acquired, to obtain the following experimental skills in order to practice research: 1) Basic observation skills and skills to manage experiments. 2) Ability to record observed natural phenomena. 3) Ability to collect and assess data.			Experimental Methods and Laboratory Work					
			Experimental Methods and Laboratory Work	Experimental Methods and Laboratory Work	Drootice for Fundamental Dialogu	Dunation for Fundamental Dialogu	Dreatice for Fundamental Biology		
			Experimental Methods and Laboratory Work Experimental Methods and Laboratory Work		Practice for Fundamental Biology	Practice for Fundamental Biology Summer Course for Marine	Practice for Fundamental Biology		
			Experimental Methods and Laboratory Work	Suffiller Course for Marine		Summer Course for Marine			
			Experimental Methods and Laboratory Work						
Abilities	Understanding rudimentary matters for biological ways of experiments and writing reports through observation of research objects, collection, consideration, discussion and presentation.	Introductory Seminar for First-							
_									
Comprehensive									
rehe	To absorb cutting-edge knowledge, acquire high- level skills, learn how to conduct research, improve presentation ability through discussion, summarize research results as a graduation thesis, and deliver presentations.								
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Liberal Arts Education Subjects Basic Specialized Subjects Specialized Education Subjects Graduation Thesis