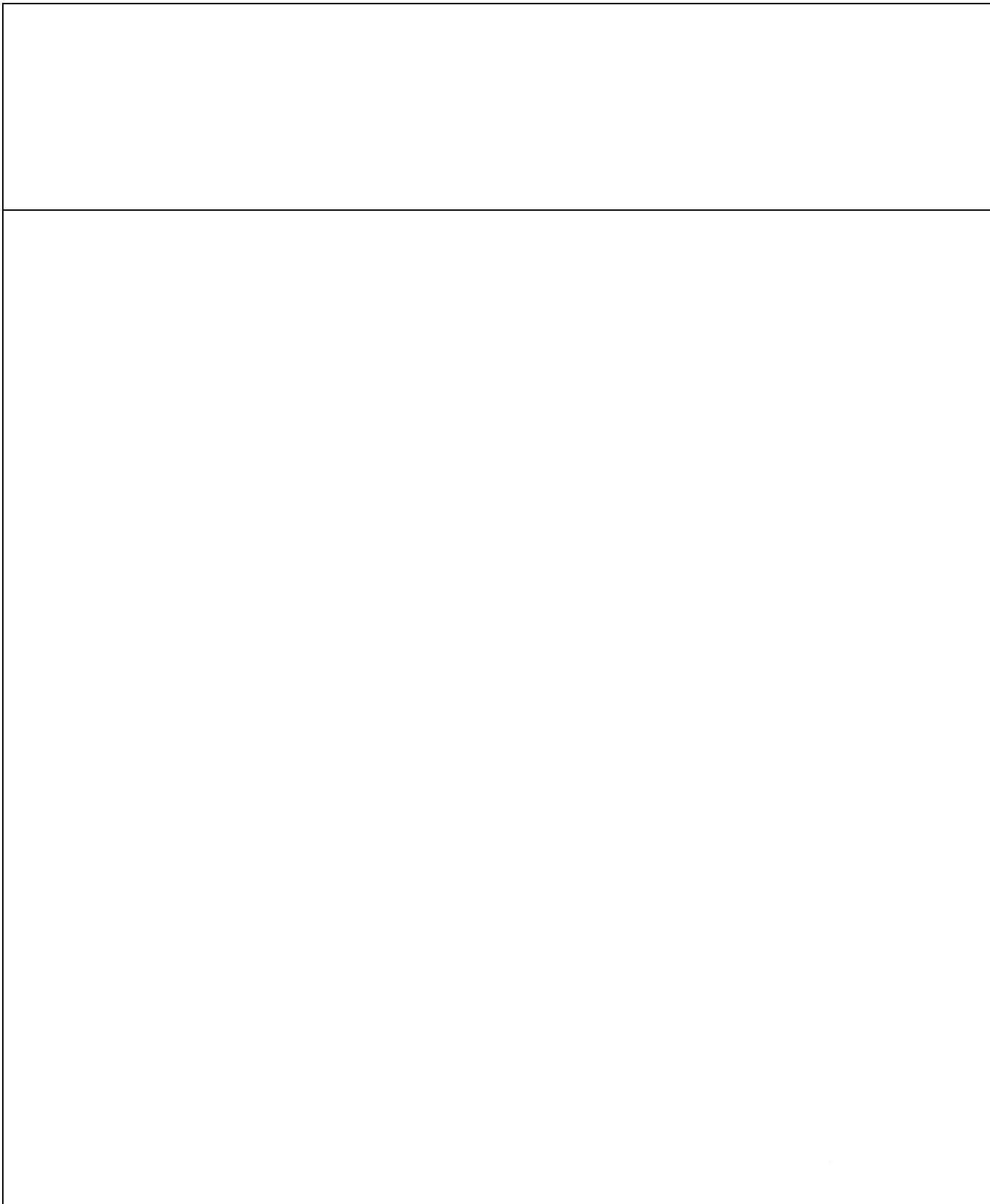
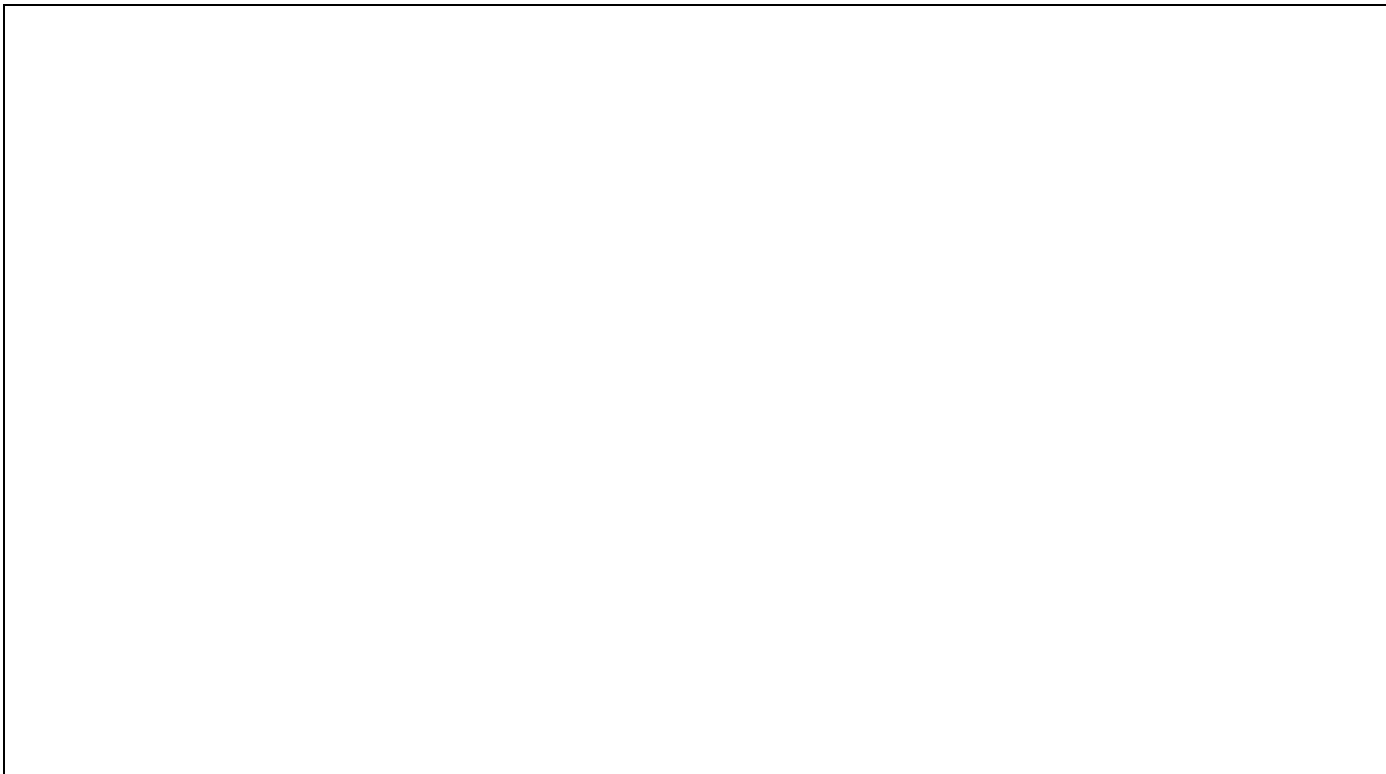


For entrants in FY 2022









Attachment 2

Study achievement		Evaluation criteria		
Evaluation items				
u n d e r s t a n d i n & g				

(1) Basic ability in communication, information processing, and physical activities required for acquiring expertise	Has superior ability in all the elements regarding communication, information processing, and physical activities required for acquiring expertise.	Has sufficient ability in all the elements regarding communication, information processing, and physical activities required for acquiring expertise.	Has basic ability in all the elements regarding communication, information processing, and physical activities required for acquiring expertise.
(2) Basic experimentation abilities and skills required for acquiring expertise	Has sufficient basic experimentation abilities and skills required for acquiring expertise, and is capable of autonomously applying them	Has sufficient basic experimentation abilities and skills required for acquiring expertise, and is capable of autonomously applying them under instruction.	Generally has sufficient basic experimentation abilities and skills required for acquiring expertise, and is capable of supporting their execution.
(3) Intellectual abilities and skills for research areas related to applied biological sciences	Has sufficient intellectual abilities and skills for areas related to integrated hydrosphere science, applied animal & plant science, food science, and molecular agricultural and life science that are related to applied biological science, and is capable of exercising them	Has intellectual abilities and skills for areas related to integrated hydrosphere science, applied animal & plant science, food science, and molecular agricultural and life science that are related to applied biological science, and is capable of exercising them	Has sufficient intellectual abilities and skills for areas related to integrated hydrosphere science, applied animal & plant science, food science, and molecular agricultural and life science that are related to applied biological science.
(4) Scientific English ability required for reading specialized treatises and providing presentations in English	Capable of exercising ample English language skills, fully understanding specialized treatises, organizing study results in English with excellent writing ability, and fully presenting the results in English.	Capable of exercising fundamental English language skills, understanding the whole story of specialized treatises, organizing study results in English with fundamental writing ability, and presenting the results in English.	Capable of exercising basic English language skills, understanding the main point of specialized treatises to some s s s covg rebur p p al scien ts g e

Role of liberal arts education in this program

The liberal arts education in this program aims to build both the language skills and the academic foundation required for the specialized education. It develops not only a capability for studying autonomously and a scientific intelligence based on the ability to collect, analyze and criticize data, but also language skills that allow the student to exchange ideas with others in English. Also, it enhances insight from a broad perspective for the essentials and the background of phenomena, and the linguistic ability and concern for peace which are

Attachment 3

Relation between evaluation items and class subjectsRelation between evaluation items and class subjectsRelation between evaluation items and class subjects

Subject category	Name of class subject	Number of credits	Required or Elective	Semester when the class is provided	Evaluation item																Total of weightings for evaluation items for the subject		
					Knowledge & understanding						Ability & skills						Comprehensive capability						
					(1)		(2)		(3)		(1)		(2)		(3)		(4)		(1)			(2)	
					Weighting for evaluation item for the subject	Weighting for evaluation item	Weighting for evaluation item for the subject	Weighting for evaluation item	Weighting for evaluation item for the subject	Weighting for evaluation item	Weighting for evaluation item for the subject	Weighting for evaluation item	Weighting for evaluation item for the subject	Weighting for evaluation item	Weighting for evaluation item for the subject	Weighting for evaluation item	Weighting for evaluation item for the subject	Weighting for evaluation item	Weighting for evaluation item for the subject	Weighting for evaluation item		Weighting for evaluation item for the subject	
Liberal arts education subjects	Peace Science Courses	2	Required	1st semester	100	1																100	
Liberal arts education subjects	Introductory Seminar for First-Year Students	2	Required	1st semester	100	1																100	
Liberal arts education subjects	Introduction to University Education	2	Required	1st semester	100	1																100	
Liberal arts education subjects	Foreign Languages	11	Required / Elective required	1st - 4th semesters							60	1					40	1				100	
Liberal arts education subjects	Information and Data Science Courses	4	Required	1st - 2nd semesters							100	1										100	
Liberal arts education subjects	Area Courses	9	Elective required	1st - 6th semesters	100	1																100	
Liberal arts education subjects	Health and Sports Courses	2	Elective required	1st - 2nd semesters							100	1										100	
Liberal arts education subjects	Basic Calculus or Elements of Calculus																						
																						100	
Liberal arts education subjects	General Chemistry	2	Required	1st semester																		100	
Liberal arts education subjects	Basic Laboratory Work in Chemistry	1	Required	1st semesters													100	1				100	
Liberal arts education subjects	"Experimental Methods and Laboratory Work in Biology I"	1	Required	2nd semesters													100	1				100	

Specialized subjects	Fish Production	3	Elective required	4th semester					100	1													100	
Specialized subjects	Plankton Biology	3	Elective required	4th semester					100	1													100	
Specialized subjects	Animal Science and Technology	3	Elective required	4th semester					100	1													100	
Specialized subjects	Physiology of Field Crop Production	3	Elective required	4th semester					100	1													100	
Specialized subjects	Introduction physiology of Domestic Animals	3	Elective required	4th semester					100	1													100	
Specialized subjects	Molecular Agro-life Science	3	Elective required	4th semester					100	1													100	
Specialized subjects	Molecular-level Understanding of Functionality of Foods	3	Elective required	4th semester					100	1													100	
Specialized subjects	Resource Management	3	Elective required	4th semester					100	1														
Specialized subjects	Packaged subjects provided in overseas partner university	12	Elective required	4th, 6th, and 8th semesters												80	1				20	1	100	
Specialized subjects	Specialized subjects packaged for each area	10	Required	5th - 8th semesters										100	1								100	
Specialized subjects	Graduate Thesis I	2	Required	5th semester																20	1	80	1	100
Specialized subjects	Graduate Thesis II	2	Required	6th semester																20	1	80	1	100
Specialized subjects	Graduate Thesis III	2	Required	7th semester																20	1	80	1	100
Specialized subjects	Graduate Thesis IV	2	Required	8th semester																20	1	80	1	100

Attachment 4

Curriculum map for Applied Biological Science Program

Study achievement Study achievement		1st year		2nd year		3rd year		4th year	
		1st semester	2nd semester	3rd semester	4th semester	5th semester	6th semester	7th semester	8th semester
Knowledge and understanding required to see a phenomenon from a broad, top-down perspective and for action based on comprehensive and cross-disciplinary thinking	Peace Science Courses ()	Research Front of Applied Biological Sciences ()							
	Seminar for developing intelligence ()								
Basic knowledge and understandings required for acquiring expertise	Introduction to University Education ()								
	Area Courses subjects ()								
	Basic Calculus / Elements of Calculus ()	Organic Chemistry ()	Statistics in Biology ()				Public Health ()		
	General Chemistry ()	Cell Science ()	Environmental Sciences for Bioproduction ()						
	Introduction to Applied Biological Science I ()	Species Biology ()							
	Introduction to Microbiology ()	Introduction to Molecular Biochemistry ()	Introduction to Physiology ()						
		Agricultural Production Resources ()	Overseas Exercise of Applied Biological Science I ()						
	Physics for Applied Biological Science ()	Overseas Exercise of Applied Biological Science II ()							
	Introduction to Applied Biological Science II ()								

Knowledge & understanding

Knowledge & understanding Knowledge and understanding regarding applied biological sciences		Ethics of Science and Technology ()						
		Introduction to Molecular Biochemistry ()						
		Seminar in Field Science ()						
				Global Environmental Issues and Managements ()				
				Modern Food Science ()				
				Insect Science ()				
				Fish Production ()				
				Plankton Biology ()				
				Animal Science and Technology ()				
				Physiology of Field Crop Production ()				
				Introduction physiology of Domestic Animals ()				
				Molecular Agro-life Science ()				
				Molecular-level Understanding of Functionality of Foods ()				
			Resource Management ()					

Ability & skills Ability & skills	Basic communication, information processing, and physical activities	Foreign Languages () ()						
		Information and Data Science Courses ()						
		Health and Sports Courses ()						
	Basic experiment abilities and skills required for acquiring expertise	"Basic Laboratory Work in Chemistry"						
			"Experimental Methods and Laboratory Work in Biology I"					
				Laboratory Work in General Biology I & II ()				
				Laboratory Work in General Chemistry ()				
				Laboratory Work in General Physics ()				
	Intellectual ability and skills for research areas regarding applied biological sciences					Specialized subjects packaged for each area ()		
Scientific English ability required for reading specialized treatises and providing presentations in English			Overseas Exercise of Applied Biological Science I ()	Packaged subjects provided in overseas partner university ()		Packaged subjects provided in overseas partner university ()	Packaged subjects provided in overseas partner university ()	
			Overseas Exercise of Applied Biological Science II ()					
	Foreign Languages () ()							

Comprehensive capability

Ability to collect information related to peripheral disciplines to complement the knowledge regarding the specialized area and consider issues regarding applied biological science from diversified points of view

Research Front of Applied Biological Sciences ()

Graduate Thesis I () Graduate Thesis II () Graduate Thesis III () Graduate Thesis IV ()

Ability to organize own ideas, demonstrate an apprehension based on those ideas, logically represent own conclusion orally or in writing, and exchange ideas in English regarding areas of applied biological sciences in which themes in integrated hydrosphere science, applied animal & plant science, food science, and molecular agricultural and life science are discussed from diverse points of view.

Packaged subjects provided in overseas partner university ()

Graduate Thesis I () Graduate Thesis II () Graduate Thesis III () Graduate Thesis IV ()

Packaged subjects provided in overseas partner university ()

Packaged subjects provided in overseas partner university ()

(Example) Liberal arts subjects Specialized fundam Specialized subjects Graduation thesis () Required subject () Elective require () Elective subjects

Note 1: The year indicated with a circle mark represents that in which students typically take the subject. The year with a double circle mark indicates the year in which students are highly recommended to take the subject. Students are allowed to take the subject in any year after that indicated with a circle or double circle mark. It is required to confirm the semester in which the subject is provided in the class schedule for liberal arts education subjects in the Students' Handbook because some subjects might be provided in different semester from that which is provided in this document.

Note 2: It is required to first take subjects that are provided in English.

Note 3: It is required to take more than 4 subjects from the fields of Arts and Humanities/Social Sciences and more than 4 subjects from Natural Sciences.

Note 4: Students who studied Mathematics III in high school are required to take the subject "Basic Calculus." Students who did not study Mathematics III in high school are required to take the subject "Elements of Calculus."

Note 5: It is required to take "Basic Laboratory Work in Chemistry" that is provided in the first semester in the first year. Only when failing to earn the credit for "Basic Laboratory Work in Chemistry", it is allowed to take the subject "Experimental Methods and Laboratory Work in Chemistry I" that is provided in the second semester in the first year.

		Introduction to Applied Biological Science II	2							
		Seminar in Field Science	2							
		Research Front of Applied Biological Sciences	2							
		Overseas Exercise of Applied Biological Science I	2							
		Overseas Exercise of Applied Biological Science II	1 2							
		Introduction to Physiology	2							
		Public Health	2							
		<p>Elective Required Subjects</p> <p>Take 4 credits from above subjects</p> <p>(Redundant credits over 4 credits move to Elective Subjects in Applied Biological Science Program)</p>								

Type	Subject type	Required No. of credits	Class subjects	No. of credits	Year in which the subject is taken										
					1 st grade				1 st grade						
					Spings	Fall	Spings	Fall	Spings	Fall	Spings	Fall			
Specialized Subjects	Specialized Subjects	56	Specialized subjects packaged for each area (Note1)	10											
			Graduate Thesis I	2											
			Graduate Thesis II	2											
			Graduate Thesis III	2											
			Graduate Thesis IV	2											
			a e a a o				18credits								
			Specialized English subject group (Note2)	Global Environmental Issues and Managements	3										
				Modern Food Science	3										
				Insect Science	3										
				Fish Production	3										
				Plankton Biology	3										
				Animal Science and Technology	3										
Physiology of Field Crop Production	3														
Introduction Physiology of Domestic Animals	3														
Molecular-level Understanding of Functionality of Foods	3														
Resource Management	3														
Molecular Agro-life Science	3														
Packaged subjects provided in overseas partner university (Note3)				13											
Elective Required Subjects				30credits											
Elective Subjects				8credits(Note4 7)											

(Note 1) "Specialized subjects packaged for each area" are composed as a subject group that consists of subjects selected from core disciplines for each of the 4 major programs (Integrated Hydrosphere Science, Applied Animal & Plant Sciences, Food Science, and Molecular Agricultural and Life Science) according to the study plan prepared by the mentor. Subject groups consist of different subjects for each student.

(Note 2) For "Specialized English subject group," it is required to take 3 unit subjects that include the exercise class for foreign students in AIMS program and earn 18 credits for 6 subjects or more. Note that the classes of the subject are provided from the last 10 days of September to the end of December.

(Note 3) For the "Packaged subjects provided in overseas partner university," students are required to select a specific subject by themselves to earn the credit in the destination university.

(Note 4) Any credit for a specialized subject for the four other major programs is accepted as a credit for elective subject.

(Note 5) Any credit for an elective required subject among specialized fundamental subjects is accepted as a credit for elective subject.73()57(f)80(o)66(r)68()57(e)71(l)," it is required tD 27Lang (c