Course List and Graduation Requirements for International Programs, Biological Science Program – School of Agricultural Sciences (for Undergraduates Enrolled in October 2021)

							Credits			
Course Category			Course	Term	No of Credits	Compulsory	Compulsory Elective	Elective	Minimum Requirement	
		First Year Seminar	I First Year Seminar A	I	2	2	Lieduve		2	
		Language and Culture	Japanese/Languages except English	I, II	12	12			12	
	Basic General Education	Language and Galtare	Academic English Advanced I Health and Sports Science: Lecture	I	2	2 2			2 2	
		Health and Sports Science	Health and Sports Science: Practicum I	II	1	1				
		·	Health and Sports Science: Practicum II	III	1	1			2	
			Partial Sum History	l II	2	20		2	20	
		Humanities and Social	Literature	I	2			2	1	
	Sciences ★		Comparative Studies of Cultures	Ш	2			2]	
	Liberal Education Courses in Humanities and Social Sciences ★		Introduction to Cultural Studies Culture and Representation	II	2			2 2	-	
			Past and Present of Democracy	Ш П	2			2	1	
			International Society of Globalization Age	I	2			2]	
	Liberal Education Courses in Natural Sciences		Biotechnology Modern Biology	I	2			2 2	-	
			Science of Materials	III	2			2	10	
			Exploration of Japan: From the Outside Looking Inside	II	2			2		
			Introduction to Career Development Theory Preparedness for Imminent Natural Disasters	III	2			2	-	
I. The second Academ	Liberal Education		Thinking about Japanese Society in the 21st Century						1	
Liberal Arts and Sciences	Liberal Education Courses in Interdisciplinary		from Gender Perspectives	Ш	2			2		
Courses	110140 /		Special Lecture (Studium Generale I) Special Lecture (Studium Generale II)	I	2			2	-	
			Special Lecture (Studium Generale II) Special Lecture (Go in Japanese Culture)	III	1			2	1	
			Special Lecture (Summer Camp for General Academic Skills)	ĪV	2			2		
			Calculus I	I	2			2	-	
			Calculus II Linear Algebra I	I	2			2 2	1	
			Linear Algebra II	II	2			2	1	
			Complex Analysis	III	2			2	-	
			Fundamentals of Physics I Fundamentals of Physics II	I	2			2 2	1	
			Fundamentals of Physics III	II	2			2]	
	Basic Courses in N	Natural Sciences	Fundamentals of Chemistry I	I	2			2	18	
			Fundamentals of Chemistry II Fundamentals of Biology I	I	2			2 2	including a total of at least 1.5 credits in Laboratory	
			Fundamentals of Biology II	II	2			2	courses	
			Fundamentals of Earth Science I Fundamentals of Earth Science II	I	2			2	-	
			Laboratory in Physics	III	1.5			1.5	1	
			Laboratory in Chemistry	II	1.5			1.5]	
	Cum for I have Arts and C		Laboratory in Biology	II	1.5	18	0	1.5 30	48	
	Sum for Liberal Arts and		Biochemistry I	III	2	2	U	30	<u> 48</u>	
		Compulsory Courses ①	Cell Biology I	III	2	2			8	
	Basic Specialized Courses		Cell Biology II	III	2	2			0	
			Biochemistry II Mathematics Tutorial Ia	IV T	2	2	1			
			Mathematics Tutorial Ib	I	1		1			
			Fundamental Physics Tutorial Ia	I	1		1			
		Compulsory Elective Courses 24	Fundamental Physics Tutorial Ib Mathematics Tutorial IIa	I	1		1			
			Mathematics Tutorial IIb	II	1		1			
			Fundamental Physics Tutorial IIa	II	1		1			
			Fundamental Physics Tutorial IIb Analytical Chemistry	III	2		<u>1</u> 2			
			Organic Chemistry I	III	2		2			
			Analytical Mechanics I	III	2		2		8	
			Physical Chemistry I Mathematical Physics I	III	2		2 2			
			Mathematical Physics Tutorial I	III	2		2			
			Statistical Physics I	III	2		2]		
			Quantum Mechanics I Inorganic Chemistry I	IV IV	2		2 2	2		
			Electricity and Magnetism	IV	2		2			
Courses in Specialized Fields			Earth and Planetary Sciences	V	2		2]		
		<u> </u>	Environmental Earth Sciences Genetics I	VI	2	2	2	<u> </u>	<u> </u>	
			Physiology and Developmental Biology	III IV	2	2				
			Genetics II	IV	2	2				
		Compulsory Courses ③	Biochemistry III Cell Biology III	V	2	2 2			42	
			Bioagricultural Science Laboratory	IV•V	10	10				
			Introductory Seminar on the Major	VII	2	2				
			Graduation Research in Bioscience	<u> </u>	20	20	0	<u> </u>	<u> </u>	
		Compulsory Elective Courses ④	Agricultural Science Physiology and Anatomy I	III	2		2 2			
			Organic Chemistry II	ΙV	2		2]		
			Biophysics Constina III	IV V	2		2	l		
			Genetics III Chemical Physics	V	2		2 2	1		
			Computational Chemistry	V	2		2]		
			Physiology and Anatomy II	V	2		2	-	30	
			Plant Physiology Bioorganic Chemistry	VI VI	2		2 2			
			Advanced Bioagricultural Science Laboratory	VI	10		10]		
			Microbiology	VI	2		2	-		
			Biochemistry IV Cell Biology IV	VI VI	2		2 2	1		
			Current Organic and Polymer Chemistry	VI	2		2	<u> </u>		
		Sum for Courses in Spe				50	38	0	88	
	1					68	38	30	<u> </u>	
		Total Sum						-211	136	

[•]Refer to the detail of the Term on the page 3 of "AY2021 Liberal Arts and Sciences Course Registration Guide for International Programs Sutdents"

[★]Some of the courses on this column are offered in every other year. Confirm the offering term with the "Liberal Arts and Sciences Class Timetable" of the said year.

Graduation Requirements for International Programs, Biological Science Program – School of Agricultural Sciences (for Undergraduate)

1. Liberal Arts and Sciences Courses: A combined total of at least 48credits must be acquired.

- (1) Basic General Education Courses: A total of at least 20 credits must be acquired, consisting of 2 credits from first year seminar A, 12 credits from Japanese/
 Languages except English, 2 credits from Academic English Advanced I, 2 credits of Health and Sports Science: Lecture, and at least 2 credits from Health and Sports Science: Practicum courses.
- (2) Basic Courses in Humanities and Social Sciences, Liberal Education Courses in Natural Sciences, Liberal Education Courses in Humanities and Social Sciences, and Liberal Education Courses in Interdisciplinary Fields: A total of at least 10 course credits must be acquired from these four Course Categories.
- (3) Basic Courses in Natural Sciences: A total of at least 18 credits must be acquired from these courses, including at least 1.5 course credits from the three Laboratory Courses.

2. Courses in Specialized Fields: A combined total of at least 88 course credits must be acquired from these course categories.

- (1) Compulsory Courses: A total of 42 course credits must be acquired from Compulsory Specialized Courses③, and a total of 8 course credits must be acquired from Compulsory Basic Specialized Courses ①.
- (2) Compulsory Elective Courses: A total of at least 8 course credits must be acquired from Compulsory Elective Basic Specialized Courses ② and a total of at least 30 course credits must be acquired from Compulsory Elective Specialized Courses ④.

Requirements for Advancement for International Programs, Biological Science Program - School of Agricultural Sciences (for Undergraduate)

Time the Judgment is made	Course Categories and Number of Credits Required	What the students who fail to advance have to obey		
At the End of the Second Grade	A total of a minimum of 70 credits must be	(1) Students must remain in the second year.(2) The maximum duration of enrollment up to the second year is 6 years.		
	acquired by the end of the second year.	(Equals to the maximum duration of enrollment (8 years) minus the enrollment duration for the third and fourth years (two years))		
		However, the total duration of leaves of absence will not be counted for calculating the enrollment period.		
		(3) Students who fail to advance to the third year after years of study mentioned above (2) will be expelled from school.		
At the End of the Third Grade	A total of a minimum of 110 credits must be	(1) Students who fail to advance will remain in the third year.		
	acquired by the end of the third year.	(2) The maximum duration of enrollment up to the third year is 7 years.		
	Further, the courses of 110 credits must include a total of a minimum of 14 credits of	(Equals to the maximum duration of enrollment (8 years) minus the enrollment duration for the fourth years (one year))		
		However, the total duration of leaves of absence will not be counted for calculating the enrollment period.		
	10 and the CD's and adhered Colores	(3) Students who fail to advance to the fourth year after 7 years of study will be expelled from school.		

Note: The 110 credits outlined here were totaled, from credits earned for advancement to the next year, with the maximum number of required credits by course category for the graduation credit requirements. Credits exceeding this amount will not be counted towards the required 110 credits.