Course List and Graduation Requirements for International Programs, Biological Science Program – School of Agricultural Sciences (for Undergraduates Enrolled in October 2023)

							Credits					
Course Category			Course	Term	No of Credits	Compulsory	Compulsory Elective	Elective	Minimum Requirement			
			Introduction to skills for academic success	Introduction to skills for academic success	I	1	1			1		
	First Year Seminar			First Year Seminar Japanese	I Fall,Spring	<u>2</u> 8	<u>2</u> 8			<u>2</u> 8		
			Language and Culture	Japanese/Second Foreign Languages/English	Fall,Spring	6	6			6		
	Common Basic Courses Health and Sports Science Data Science		Health and Sports Science	Health and Sports Science: Lecture Exercise and Sports A Exercise and Sports B	I I	1	2 1 1			2		
			Data Science	Introduction to Data Science (Lecture) Data Science Exercise A	<u>п</u> П	1 1	1			1		
				Data Science Exercise B Partial Sum	I	1	23			23		
			Humanities and Social	Introduction to Cultural Studies ★	Spring	2	23		2	ZJ		
		Contemporary Liberal Arts	sciences	Introduction to Political Studies		2			2			
			Interdisciplinary/Integration of arts and sciences	Introduction to Economics ★ Introduction to Career Development Theory	Spring Fall	2			2			
				Art and Culture ★	Spring	2			2			
				Gender Studies Disaster Prevention and Mitigation	<u>III</u>	2			2	<u>-</u>		
	Liberal Arts			Biotechnology	Ⅲ Fall	2			2	4		
	Course			International Society in the Age of Globalization★ Exploration of Japan: From the Outside looking Inside	Spring	2			2	consisting of		
Liberal Arts				Go in Japanese Culture	Fall	2			2	2 credits		
and Sciences		Global Liberal Arts		Studium Generale A Studium Generale B	Fall Spring	2			2	from CLA.		
Courses				Introduction to Intercultural Competence	Fall	2			2			
				Immigration in Japan Content courses taught in Japanese		2			2			
		Problem/Project Ba	ased Learning Seminar	Summer Camp for General Academic Skills	VI	2			2			
				Calculus I Calculus II	I II	2			2 2			
				Linear Algebra I	I	2			2			
				Linear Algebra II	II	2			2			
				Complex Analysis Fundamentals of Physics I	III I	2			2			
				Fundamentals of Physics II	II	2			2	<u></u>		
	D.	aia Oassuraaa in Nats	l Caianasa	Fundamentals of Physics III Fundamentals of Chemistry I	II I	2			2	20		
	Ва	sic Courses in Nati	ural Sciences	Fundamentals of Chemistry II	II	2			2	20 including a total of at least 2 credits in Laboratory		
				Fundamentals of Biology I	I	2			2			
				Fundamentals of Biology II Fundamentals of Earth Science I	II I	2			2	courses		
				Fundamentals of Earth Science II	II	2			2	<u>-</u>		
				Laboratory in Physics	III	2			2			
				Laboratory in Chemistry Laboratory in Biology	II II	2			2			
		Sum for I	Liberal Arts and Sciences				23	0	24	47		
				Biochemistry I	III	2	2					
		Compulsory Courses ①		Cell Biology I	III	2	2			8		
				Cell Biology II Biochemistry II	III IV	2	2					
				Mathematics Tutorial Ia	I	1		1				
				Mathematics Tutorial Ib Fundamental Physics Tutorial Ia	Ī	1		1				
				Fundamental Physics Tutorial Ib	II	1		1	8			
				Mathematics Tutorial IIa Mathematics Tutorial IIb	II II	1		1				
	Basic Specialized			Fundamental Physics Tutorial II	II	1		1				
	Courses			Analytical Chemistry Organic Chemistry I	III III	2		<u>2</u> 2				
		Compulsory	/ Elective Courses ②	Analytical Mechanics I	III	2		2		8		
				Physical Chemistry I Mathematical Physics I	III III	2		2 2 2				
				Mathematical Physics Tutorial I	III	2						
				Statistical Physics I Quantum Mechanics I	III IV	2		2 2				
				Inorganic Chemistry I	IV	2		2				
				Electricity and Magnetism Earth and Planetary Sciences	IV V	2 2		2 2				
		<u> </u>		Earth and Planetary Sciences Environmental Earth Sciences	VI	2	2 2					
Courses in				Genetics I	,,,,	2	2					
Specialized Fields				Physiology and Developmental Biology	III IV	2	2					
5.45				Genetics II	IV	2	2					
		Compul	Isory Courses ③	Biochemistry III Cell Biology III	V	2	2			42		
				Bioagricultural Science Laboratory I	IV	5	5					
				Bioagricultural Science Laboratory II Introductory Seminar on the Major	V VII	5 2	5 2					
	Specialized Courses			Graduation Research in Bioscience	VII-VIII	20	20					
		Compulsory Elective Courses ④		Agricultural Science Physiology and Anatomy I	III III	2		2		30		
				Organic Chemistry II	IV	2		2				
				Biophysics Genetics III	IV V	2		2 2				
				Chemical Physics	V	2		2				
			Flective Courses (A)	Computational Chemistry Physiology and Anatomy II	V	2		2 2	-			
		Gompulsory	_	Plant Physiology	VI	2		2		30		
				Bioorganic Chemistry Advanced Bioagricultural Science Laboratory	VI VI	2 10		2 10]			
				Microbiology	VI	2		2	<u> </u>			
				Biochemistry IV	VI	2		2]			
				Cell Biology IV Current Organic and Polymer Chemistry	VI VI	2		2 2				
Sum for Courses in Specialized Fields							50	38	0	88		
Total Sum							73	38	24	135		
			Lotal Sum		•Confirm the prerequisite for each subject with the syllabus.							

[•]Confirm the prerequisite for each subject with the syllabus.

[•]Refer to the detail of the Term on the page 3 of "AY2023 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 47credits must be acquired.

(1) Common Basic Courses:

A total of at least 23 credits must be acquired, consisting of 1 credit of Introduction to skills for academic success, 2 credits of First year seminar, 14 credits from Language and Culture *, at least 2 credits each of Lecture and Exercise for Health and Sports Science, and 1 credit each of Lecture and Exercise for Data Science.

(2) Liberal arts Contemporary:

A total of at least 4 elective course credits must be acquired, consisting of at least 2 credits from Humanities and Social sciences or Interdisciplinary/Integration of arts and sciences.

(3) Basic Courses in Natural Sciences: A total of at least 20 credits must be acquired from these courses, including at least 2 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 Courses ③, 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 acquired by the end of the second year. However, 41 or more Liberal Arts and Sciences course credits are included among the 70 credits.	 (1) Students must remain in the second year. (2) The maximum duration of enrollment up to the second year is 6 years. (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 acquired by the end of the third year. Further, the courses of 110 credits must include a total of a minimum of 14 credits of Courses of Language and Culture as well as 16 credits of Basic Specialized Courses and 10 credits of Bioagricultural Science Laboratory.	 (1) Students who fail to advance will remain in the third year. (2) The maximum duration of enrollment up to the third year is 7 years. (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. (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.