Course List and Graduation Requirements for International Programs, Chemistry Program – School of Science (for Undergraduates Enrolled in October 2020)

Course Care Farm No of Compulsory Election Report			Chemistry Progra	m - School of Science (for Undergraduate:	s Enroll	ed in C	ctober 20			
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Laboratory in Physics							1			
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Sum for Liberal Arts and Sciences Courses 18 0 295 475					II	1.5			1.5	1.5
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Compulsory Courses (1) Chemistry Seminar			Sum for Liberal Arts and					0	29.5	47.5
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Mathematics Tutorial Ib								1		<u> </u>
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Courses in Specialized Fields	Courses in Specialized Fields						1			1
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Analytical Mechanics I]]
Earth and Planetary Science V 2 2 2 2 2 2 2 2 2					Ш	2]		2]
Environmental Earth Science VI 2]			1
Partial Sum							1			1
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Compulsory Courses (4) Graduation Research VII, VIII 20 20 37	ĺ					<u> </u>		28	8	40
Caradation Research VII, VIII 20 20 20 20 20 20 20			Compulsory Courses (4)							37
Specialized Course Elective Courses (5) Organic Chemistry V V 2 2 2 2 2 2 2 2			, ,, ,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				20	<u> </u>		<u> </u>
Polymer Chemistry V 2 2 2 2 2 2 2 2 2			Elective Courses ⑤				1			1
Specialized Course Elective Courses (5) Computational Chemistry V 2 2 2 2 2 2 2 2 2							1			1
Specialized Course Elective Courses (5) Current Organic and Polymer Chemistry VI 2 2 2 2							1			1
Cell Biology IV		Specialized Co					1			1
Cell Biology IV		COURT AND A COURT OF THE PROPERTY OF THE PROPE					1			7
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[•]Confirm the prerequisite for each subject with the syllabus.
•Refer to the details of the Term on the page 3 of "AY2020 Liberal Arts and Sciences Course Registration Guide for International Programs Students"

★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, Chemistry Program - School of Science (for Undergraduate)

1. Liberal Arts and Sciences Courses: A combined total of at least 47.5credits must be acquired.

(1) Basic General Education Courses

A total of at least 18 credits must be acquired, consisting of 2 credits from first year seminar A, 12 credits from Japanese/Languages except English, 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 and Liberal Education Courses in Humanities and Social Sciences:

A total of at least 6 elective course credits must be acquired from these two Courses Categories.

(3) Liberal Education Courses in Natural Sciences and Liberal Education Courses in Interdisciplinary Fields:

A total of at least 4 elective course credits must be acquired from these two Course Categories, consisting of 2credits from Liberal Education Courses in Natural Sciences.

(4) Basic Courses in Natural Sciences:

A total of at least 19.5 credits must be acquired, consisting of 18 course credits from this category of fundamental science courses except three Laboratory courses and at least 1.5 course credits from the three Laboratory Courses.

Courses in Specialized Fields: A combined total of at least 84 course credits must be acquired from these course categories.

- (1) Compulsory Courses: A total of 41 compulsory course credits must be acquired, consisting of a total of 37 from Compulsory Specialized Courses (4) and that of 4 compulsory course credits from Compulsory Basic Specialized Courses ①.

 (2) Compulsory Elective Courses: A total of at least 28 course credits must be acquired from Compulsory Elective Courses ②.
- (3) Elective Courses: A total of at least 15 course credits must be acquired from Elective Courses ③ and ⑤, consisting of a total of at least 8 course credits from Elective Basic Specialized Courses ③ and a total of at least 7 course credits from Elective Specialized Courses ⑤.
- (4) If a total of compulsory elective course credits acquired from ② is larger than 28 credits, a maximum of 4 credits out of the exceeding credits can be included in the acquired credits of Elective Specialized Courses ⑤.

Requirements for Advancement for International Programs, Chemistry Program - School of Science (for Undergraduate)

Time the Judgment is made	Course Categories and Required Number of Credits	Students unable to advance to the next year
	A total of a minimum of 20 course credits must be acquired at the end of the first grade.	1. Remain in the first year. 2. Must take no longer than 5 years to complete their first year. [Duration of enrollment (8 years)] minus [second to forth years(3 years)] 3. Students unable to advance to the next year within the 5-year limit stated in 2. above will be expelled from the school.