

Appended Table 1 (Related to Article 6,7, and 13)
 【Life Science Course】

Course Category	Course	Credits	Required No. of credits		Recommended	Year taken	Department in charge	
			Required	Required elective				
Common Graduate Courses	Data Literacy	1		1		1-2	Headquarters for Education	
	Advanced Career Management	2						
	Select a course from Sustainable Development Courses in Common Graduate Courses (Doctoral Course)			1		3-4-5		
	Data Science	2		2	3-4-5			
	Pathway to Becoming a Data Scientist	1						
	Career Management Seminar	1						
Specialized Courses of the Frontier Development Program for Genome Editing	Lectures / Training	Basics and Practical Applications of Genome Editing	2	2		1	Graduate School of Integrated Sciences for Life	
		Basic Training of Genome Editing	2	2		1-2		
		Bioinformatics	2	2				
		Introduction to Genetics and Genomics	2	2				
		Clinical Applications of Genome Editing Technology	1	1				
		ELSI of Science and Technology	2	2		2		
	Advanced Courses	Trends of Genome Editing in Life Science	2		2		3-4-5	
		Trends of Genome Editing in Medical Science	2					
	Internship	Internship at CiRA	2			2	1-2-3-4-5	
		Internship at Cutting-edge Genome Editing Laboratories	2					
		Internship at Collaborative Research Companies	2					
	Graduate School of Integrated Sciences for Life	Common Courses in Graduate School	Special Lectures in Integrated Sciences for Life*	2	6		1	Graduate School of Integrated Sciences for Life
Research Methods in Life Science*			2			1-2		
Science Seminar A			2					
Research Plans in Life Science			2		3			
Career Development for Life Science			2	4		3-4-5		
Science Seminar B			2					
Specialized Courses in Program		Specialized Courses designated by the affiliated degree program			8		1-2	
		Research for Academic Degree Dissertation in the affiliated degree program*	4	4			1~2	
	Research for Academic Degree Dissertation in Integrated Life Sciences*	12	12			3~5		
Total required credits			33	18	0	Total 51 credits		

The asterisk (*) represents 'required course' in the Graduate School of Integrated Sciences for Life

Completion Requirements

I Acquisition of at least 51 credits as specified below:

1 Required

- Specialized Courses of the Frontier Development Program for Genome Editing 11 credits
- Common Courses in the Graduate School of Integrated Sciences for Life 6 credits
- Specialized Courses in Program in the Graduate School of Integrated Sciences for Life 16 credits

2 Required Elective

- Common Graduate Courses 4 credits or more
- Specialized Course for the Frontier Development Program for Genome Editing 2 credits or more
- Common Courses in the Graduate School of Integrated Sciences for Life 4 credits or more
- Specialized Courses in Program in the Graduate School of Integrated Sciences for Life 8 credits

3 Recommended

- Students are highly encouraged to participate in internships as part of their professional development in this program, even though the credits do not count toward the completion requirements.

II Fulfillment of requirements for the degrees in the affiliated graduate school (both master's course and doctoral course) .

NOTE : In case of overlapping courses, credits earned for the Degree PRG of the Graduate School will count towards the credits required for the Life Science Course completion.

Appended Table 2 (Related to Article 6,7, and 14)
 【Life Science Course (3-year curriculum)】

Course Category	Course	Credits	Required No. of credits		Recommended	Year taken	Department in charge	
			Required	Required elective				
Common Graduate Courses	Select a course from Sustainable Development Courses in Common Graduate Courses (Doctoral Course)			1		3-4-5	Headquarters for Education	
	Data Science	2		2	3-4-5			
	Pathway to becoming a Data Scientist	1						
	Career Management Seminar	1						
Specialized Courses of the Frontier Development Program for Genome Editing	Lectures / Training	Basic Training of Genome Editing	2	2		3	Graduate School of Integrated Sciences for Life	
		ELSI of Science and Technology	2	2		4		
		Basics and Practical Applications of Genome Editing	2		5	3-4-5		
		Bioinformatics	2					
		Introduction to Genetics and Genomics	2					
		Clinical Applications of Genome Editing Technology	1					
	Advanced Courses	Trends of Genome Editing in Life Science	2					2
		Trends of Genome Editing in Medical Science	2					
	Internship	Internship at CiRA	2			2		3-4-5
		Internship at Cutting-edge Genome Editing Laboratories	2					
		Internship at Collaborative Research Companies	2					
Graduate School of Integrated Sciences for Life	Common Courses in Graduate School	Research Plans in Life Science	2		4	3-4-5	Graduate School of Integrated Sciences for Life	
		Career Development for Life Science	2					
		Science Seminar B	2					
	Specialized Courses in Program	Research for Academic Degree Dissertation in Integrated Life Sciences*	12	12				3~5
Total required credits			16	14	0	Total 30 credits		

The asterisk(*) represents 'required course' in the Graduate School of Integrated Sciences for Life

Completion Requirements

I Acquisition of at least 30 credits as specified below;

1 Required

- Specialized Courses of the Frontier Development Program for Genome Editing 4 credits
- Specialized Courses in Program in the Graduate School of Integrated Sciences for Life (Research for Academic Degree Dissertation) 12 credits

2 Required Elective

- Common Graduate Courses 3 credits or more
- Specialized Course for the Frontier Development Program for Genome Editing 7 credits or more
- Common Courses in the Graduate School of Integrated Sciences for Life 4 credits or more

3 Recommended

- Students are highly encouraged to participate in internships as part of their professional development in this program, even though the credits do not count toward the completion requirements.

II Fulfillment of requirements for the degrees in the affiliated graduate school (doctoral course) .

NOTE : In case of overlapping courses, credits earned for the Degree PRG of the Graduate School will count towards the credits required for Life Science Course (3-year curriculum) completion.

Bylaws for the Completion of the Frontier Development Program for Genome Editing, Appended Table 3 (Related to Article 6,7, and 15)
 [Medical Course]

Course Category	Course	Credits	Required No. of credits		Recom mended	Year taken	Department in charge		
			Required	Required elective					
Common Graduate Courses	Select a course from Sustainable Development Courses in Common Graduate Courses (Doctoral Course)	/		1		1-2-3	Headquarters for Education		
	Data Science	2		1	1-2-3				
	Pathway to becoming a Data Scientist	1							
	Career Management Seminar	1							
Specialized Courses of the Frontier Development Program for Genome Editing	Lectures /Training	Basics and Practical Applications of Genome Editing	2	2		1	Graduate School of Integrated Sciences for Life		
		Basic Training of Genome Editing	2	2	1-2				
		Bioinformatics	2	2					
		Introduction to Genetics and Genomics	2	2					
		Clinical Applications of Genome Editing Technology	1	1					
		ELSI of Science and Technology	2	2		2			
	Advanced Courses	Trends of Genome Editing in Life Science	2		2	3-4			
		Trends of Genome Editing in Medical Science	2						
	Internship	Internship at CiRA	2		2	1-2-3-4			
		Internship at Cutting-edge Genome Editing Laboratories	2						
		Internship at Collaborative Research Companies	2						
	Graduate School of Biomedical and Health Sciences	Common Courses	Medical Ethics B*	1	1	2		1	Graduate School of Biomedical and Health Sciences
			Methods in Biomedical Sciences B	1					
Creation and Development of Biomedical Sciences			1						
Lecture on Biodesign B1			1						
Lecture on Biodesign B2			1						
Lecture on Translational Research B			1						
Multidisciplinary Cooperation B*			1	1					
Common Courses in Division		Principles of Oncology	1		2	1			
		Integrated Radiation Medical Science	1						
		Pharmacotherapeutic Research	1						
		Practice of Oncology	1						
		Cause of Death Investigation	1						
Specialized Courses in Program		Advanced Seminars in the Specialized Courses in the affiliated degree program	/		10	1			
	Advanced Reserch in the affiliated degree program	/	12		1~3				
Total required credits			25	18	0	Total 43 credits			

The asterisk(*) represents 'required course' in the Graduate School of Biomedical and Health Sciences

Completion Requirements

I Acquisition of at least 43 credits as specified below;

1 Required

- Specialized Courses for the Frontier Development Program for Genome Editing 11 credits
- Common Courses in the Graduate School of Biomedical and Health Sciences 2 credits
- Specialized Courses in Program in the Graduate School of Integrated Sciences for Life (Research Courses) 12 credits

2 Required Elective

- Specialized Courses for the Frontier Development Program for Genome Editing 2 credits or more
- Common Graduate Courses 2 credits or more
- Common Courses in the Graduate School of Biomedical and Health Sciences 2 credits or more
- Common Courses in Division of the Graduate School of Biomedical and Health Sciences 2 credits or more
- Specialized Courses in Program of the Graduate School of Biomedical and Health Sciences 10 credits or more

3 Recommended

- Students are highly encouraged to participate in internships as part of their professional development in this program, even though the credits do not count toward the completion requirements.

II Fulfillment of requirements for the degrees in the affiliated graduate school

NOTE : In case of overlapping courses, credits earned for the Degree PRG of the Graduate School will count towards the credits required for Medical Course completion.