

## The example of process of completion of Disease Mechanism Course (Doctor's Program)

### Disease Mechanism Course: Conferred academic degree: Ph.D. in Disease Mechanism

The researchers or advanced professionals in the fields of medical sciences and medical care who contribute to prevention and treatment of diseases.

Expected places of employment. Companies: pharmaceuticals, medical devices, health care, clinical development. Public servants : Ministry of Health, Labour and Welfare, Ministry of Education, Culture, Sports, Science and Technology, Ministry of Economy, Trade and Industry, local public servants, independent administrative agencies.

### A study model for the students with the aims of becoming researchers or advanced professionals in exploration division at pharmaceutical companies.

The students will conduct original and high-grade research based on a comprehensive view of specialized knowledge of disease mechanisms field and the other fields. The students will acquire skills suitable for Ph.D. in finding and solving problems, experimental techniques, presentation, report writing. The students will present their research results at the international academic meeting, publish more than one peer-reviewed paper written in English as first author and contribute to creation of innovation in disease mechanism field.

	Subjects	Required credits	Year 1 Spring	Year 1 Fall	Year 2 Spring	Year 2 Fall	Year 3 Spring	Year 3 Fall
Doctor's Program (Common to all courses)	Common subjects	3	CITI: Research Ethics (e-learning) (1), Internship Abroad (1), Life Science Innovation Seminar (1)					
	Graduate General Education Courses Program (required [elective])	3	Applied Ethics (1), Research Management Skills (1), English Presentations (1)					
	Specialized subjects (required)	18	Life Science Innovation Doctor's Special Seminar I (2) Life Science Innovation Doctor's Special Research I (4)		Life Science Innovation Doctor's Special Seminar II (2) Life Science Innovation Doctor's Special Research II (4)		Life Science Innovation Doctor's Special Seminar III (2) Life Science Innovation Doctor's Special Research III (4)	
	Total	More than 24	6		6		12	
			Determination of supervising faculty (~Jul)		Submission of research proposal (Jul) Mid-term presentation 1 and evaluation of level of achievement (Jul)		Submission of research proposal (Jul) Mid-term presentation 1 and evaluation of level of achievement (Jul) Decision of submission of a doctoral thesis	Submission of a doctoral thesis (Dec) Final examination (Jan) The conferment of degree (Mar)

## The example of process of completion of Drug Discovery Course (Doctor's Program)

### Drug Discovery Course: Conferred academic degree: Ph.D. in Medical Science

The researchers or advanced professionals in the fields of drug discovery who contribute to development of innovative pharmaceuticals.

Expected places of employment. Companies: pharmaceuticals , medical devices, clinical development, cosmetics. Public servants : Ministry of Health, Labour and Welfare, Ministry of Education, Culture, Sports, Science and Technology, Ministry of Economy, Trade and Industry , local public servants, independent administrative agencies.

### A study model for the students with the aims of becoming researchers or advanced professionals in exploration division at pharmaceutical companies.

The students will conduct original and high-grade research based on a comprehensive view of specialized knowledge of drug discovery field and the other fields. The students will acquire skills suitable for Ph.D. in finding and solving problems, experimental techniques, presentation, report writing. The students will present their research results at the international academic meeting, publish more than one peer-reviewed paper written in English as first author and contribute to creation of innovation in drug discovery field.

	Subjects	Required credits	Year 1 Spring	Year 1 Fall	Year 2 Spring	Year 2 Fall	Year 3 Spring	Year 3 Fall
Doctor's Program (Common to all courses)	Common subjects	3	CITI: Research Ethics (e-learning) (1), Internship Abroad (1), Life Science Innovation Seminar (1)					
	Graduate General Education Courses Program (required [elective])	3	Applied Ethics (1), Research Management Skills (1), English Presentations (1)					
	Specialized subjects (required)	18	Life Science Innovation Doctor's Special Seminar I (2) Life Science Innovation Doctor's Special Research I (4)		Life Science Innovation Doctor's Special Seminar II (2) Life Science Innovation Doctor's Special Research II (4)		Life Science Innovation Doctor's Special Seminar III (2) Life Science Innovation Doctor's Special Research III (4)	
	Total	More than 24	6		6		12	
			Determination of supervising faculty (~Jul)		Submission of research proposal (Jul) Mid-term presentation 1 and evaluation of level of achievement (Jul)		Submission of research proposal (Jul) Mid-term presentation 1 and evaluation of level of achievement (Jul) Decision of submission of a doctoral thesis	Submission of a doctoral thesis (Dec) Final examination (Jan) The conferment of degree (Mar)

## The example of process of completion of Food Innovation Course (Doctor's Program)

### Food Innovation Course: Conferred academic degree: Ph.D. in Food Innovation

The researchers or advanced professionals in the fields of food science who contribute to human health through development of innovative functional foods.

Expected places of employment. Companies: pharmaceuticals , medical devices, clinical development, cosmetics. Public servants : Ministry of Health, Labour and Welfare, Ministry of Education, Culture, Sports, Science and Technology, Ministry of Economy, Trade and Industry , local public servants, independent administrative agencies.

### A study model for the students with the aims of becoming researchers or advanced professionals in division of functional food development at food companies.

The students will conduct original and high-grade research based on a comprehensive view of specialized knowledge of food innovation field and the other fields. The students will acquire skills suitable for Ph.D. in finding and solving problems, experimental techniques, presentation, report writing. The students will present their research results at the international academic meeting, publish more than one peer-reviewed paper written in English as first author and contribute to creation of innovation in food innovation field.

	Subjects	Required credits	Year 1 Spring	Year 1 Fall	Year 2 Spring	Year 2 Fall	Year 3 Spring	Year 3 Fall
Doctor's Program (Common to all courses)	Common subjects	3	CITI: Research Ethics (e-learning) (1), Internship Abroad (1), Life Science Innovation Seminar (1)					
	Graduate General Education Courses Program (required [elective])	3	Applied Ethics (1), Research Management Skills (1), English Presentations (1)					
	Specialized subjects (required)	18	Life Science Innovation Doctor's Special Seminar I (2) Life Science Innovation Doctor's Special Research I (4)		Life Science Innovation Doctor's Special Seminar II (2) Life Science Innovation Doctor's Special Research II (4)		Life Science Innovation Doctor's Special Seminar III (2) Life Science Innovation Doctor's Special Research III (4)	
	Total	More than 24	6		6		12	
			Determination of supervising faculty (~Jul)		Submission of research proposal (Jul) Mid-term presentation 1 and evaluation of level of achievement (Jul)		Submission of research proposal (Jul) Mid-term presentation 1 and evaluation of level of achievement (Jul) Decision of submission of a doctoral thesis	Submission of a doctoral thesis (Dec) Final examination (Jan) The conferment of degree (Mar)

## The example of process of completion of Environmental Management Course (Doctor's Program)

### Food Innovation Course: Conferred academic degree: Ph.D. in Environmental Management

The researchers or advanced professionals in the fields of environmental science who contribute to solution of the energy and environment problems through development, conservation and management of the innovative environmental resources.

Expected places of employment. Companies: think tank, energy development, manufacturing industries, construction, pharmaceuticals. Public servants : Ministry of the Environment, Ministry of Agriculture, Forestry and Fisheries, Ministry of Economy, Trade and Industry, local public servants, independent administrative agencies.

### A study model for the students with the aims of becoming researchers or advanced professionals in environment consulting firms.

The students will conduct original and high-grade research based on a comprehensive view of specialized knowledge of environmental management field and the other fields. The students will acquire skills suitable for Ph.D. in finding and solving problems, experimental techniques, presentation, report writing. The students will present their research results at the international academic meeting, publish more than one peer-reviewed paper written in English as first author and contribute to creation of innovation in environmental management field.

	Subjects	Required credits	Year 1 Spring	Year 1 Fall	Year 2 Spring	Year 2 Fall	Year 3 Spring	Year 3 Fall
Doctor's Program (Common to all courses)	Common subjects	3	CITI: Research Ethics (e-learning) (1), Internship Abroad (1), Life Science Innovation Seminar (1), Internship I (1), Internship II (1)					
	Graduate General Education Courses Program (required [elective])	3	Applied Ethics (1), Research Management Skills (1), English Presentations (1)					
	Specialized subjects (required)	18	Life Science Innovation Doctor's Special Seminar I (2) Life Science Innovation Doctor's Special Research I (4)		Life Science Innovation Doctor's Special Seminar II (2) Life Science Innovation Doctor's Special Research II (4)		Life Science Innovation Doctor's Special Seminar III (2) Life Science Innovation Doctor's Special Research III (4)	
	Total	More than 24	6		6		14	
				Determination of supervising faculty (~Jul)		Submission of research proposal (Jul) Mid-term presentation 1 and evaluation of level of achievement (Jul)		Submission of research proposal (Jul) Mid-term presentation 1 and evaluation of level of achievement (Jul) Decision of submission of a doctoral thesis