

Class Subjects and Course Registration

Department of Biofunctional Science and Technology (Master's Program)

Segment	Class Subject	Credit	Grade	Registration and Requirement		
Compulsory	Research for Academic Degree Dissertation *	8	1 · 2	○Registration		
	Science Seminar (A) (Note ¹) *	2	1 · 2			
Compulsory but optional	Basic subjects	① Science and Engineering Ethics	1	1 or 2	1 Compulsory 10 Credits * No need to register by the students. 2 Compulsory but optional 12 Credits (Should be selected after discussion with the Academic Supervisor)	
		② General Biosphere Science (1)	2	1 or 2		
		③ General Biosphere Science (2)	2	1 or 2		
		④ Graduate general education subjects (Basic) (Note ²)	1 or 2	1 or 2		
		Select 1 subject from ①-④ above				
		Core subjects	Applied Immunology	1	1 or 2	● 1 subject from the basic subjects 1 or 2 credits ※ Excess credits over 1 obtained from the basic subjects can be counted as those of the optional subjects From the Core Subjects ● Exercise designated by the Academic Supervisor 2 Credits ● Practice designated by the Academic Supervisor (Experiment/Practice) 1 Credit ● Other Core subjects than those above 8 Credits ※ Excess credits over eight obtained from the core subjects can be counted as those of the optional subjects. 3 Optional 8 Credits or more Should be selected from list of class subjects in this Graduate School. In addition, up to five credits obtained from class subjects provided by other graduate school can be incorporated. ○Requirement for completion 1 Specialized subjects Compulsory 10 Credits Compulsory but optional 12 Credits Optional 8 Credits or more Total 30 Credits or more 2 Research Guidance 3 Master's Thesis
			Molecular Immunology	1	1 or 2	
			Plant Molecular Bioscience	1	1 or 2	
			Structure and Function of Proteins-II	1	1 or 2	
			Gene Regulation (Note ³)	1	1 or 2	
			Molecular Cell Science A	1	1 or 2	
			Molecular Cell Science B	1	1 or 2	
			Ecological Chemistry	1	1 or 2	
			Bioactive Natural Products II	1	1 or 2	
			Biomolecular Science A	1	1 or 2	
			Biomolecular Science B	1	1 or 2	
			Exercises in Molecular and Applied Biosciences (A)	2	1 or 2	
			Practice in Molecular and Applied Biosciences	1	1 or 2	
			Glycobiology and Glycotechnology	1	1 or 2	
			Aquatic Toxicology	1	1 or 2	
			Function of Livestock Food Product	1	1 or 2	
			Biochemistry of Animal Foods II	1	1 or 2	
			Food Biophysics I	1	1 or 2	
			Food Physical Chemistry II	1	1 or 2	
			Food Engineering	1	1 or 2	
			Food Process Engineering	1	1 or 2	
			Microbiology for Food Safety II	1	1 or 2	
			Foodborne Pathogenic Genetics	1	1 or 2	
			Health and Nutrition Science	1	1 or 2	
			Biochemical and Molecular Nutrition	1	1 or 2	
			Environmental and Biomass Technology II	1	1 or 2	
			Microbial Engineering on Brewing II	1	1 or 2	
			Practical Exercises in Application of Brewing Resources	1	1 or 2	
		Exercises in Food Science and Biofunctions (A)	2	1 or 2		
		Practice in Food Science and Biofunctions	1	1 or 2		

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Optional	Exercises in Applied Immunology	1	1 or 2	
	Immunobiology	1	1 or 2	
	Structure and Function of Proteins-I	1	1 or 2	
	Basic Molecular Biology (Note ³)	1	1 or 2	
	Applied Microbiology	1	1 or 2	
	Applied Microbiology Seminar	1	1 or 2	
	Exercises in Ecological Chemistry	1	1 or 2	
	Bioactive Natural Products I	1	1 or 2	
	General Molecular Genetics	1	1 or 2	
	Practical Molecular Genetics	1	1 or 2	
	Aquatic Bioresource Chemistry	1	1 or 2	
	Hygienic Chemistry of Sea Food	1	1 or 2	
	Exercises in Function of Livestock Food Product	1	1 or 2	
	Biochemistry of Animal Foods I	1	1 or 2	
	Food Biophysics II	1	1 or 2	
	Food Physical Chemistry I	1	1 or 2	
	Exercise in Food Process Engineering	1	1 or 2	
	Process Engineering	1	1 or 2	
	Microbiology for Food Safety I	1	1 or 2	
	Exercises in Foodborne Pathogenic Genetics	1	1 or 2	
	Nutritional Biochemistry	1	1 or 2	
	Nutri-genomics	1	1 or 2	
Microbial Engineering on Brewing I	1	1 or 2		
Environmental and Biomass Technology I	1	1 or 2		
Application of Brewing Resources	1	1 or 2		

Note¹ See details in "Notes on Course Registration (1)".

Note² Select 1 subject in the lists of the "Graduate general education subjects (Basic)".

Note³ These lectures will not be offered after 2015 academic year.