

Course Number	06047
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2006 「The International Priority Graduate Programs (PGP)」

～Advanced Graduate Courses for International Students～

【1. Profile of the University】

①University Department	Kyushu University Graduate School of Bioresource and Bioenvironmental Sciences		
②President	KAJIYAMA Tisato		
③Address (Headquarters)	6-10-1 Hakozaki, Higashi-ku, Fukuoka 812-8581, Japan		
④Contact	Division	Director of the Faculty of Agriculture	
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⑤Web-Address	http://www.agr.kyushu-u.ac.jp/top/frame_tope.html		
⑥Enrollment (only GraduateSchool)	987 (include MEXT's Scholarship Students: 282)		

【2. Outline of the Course】

①Course	International Development Research Course: An international program for bioresource and bioenvironmental sciences based on a block module system.
②Degree	Master of Science / Doctor of Philosophy (Agricultural Science) (2 / 3 years)
③Graduate Course, Department	Graduate School of Bioresource and Bioenvironmental Sciences
	(Address) 6-10-1, Hakozaki, Higashi-ku, Fukuoka 812-8581, Japan
④Collaboration (Universities, Graduate courses, Departments)	Department of Applied Genetics and Pest Management Department of Plant Resources Department of Bioscience and Biotechnology Department of Animal and Marine Bioresource Sciences Department of Agricultural and Resource Economics Department of Bioproduction Environmental Sciences Department of Forest and Forest Products Sciences Department of Genetic Resource Technology
⑤Quota	25 (Master 15/ Doctor 10) (include MEXT's Scholarship Students :11(Master 4/Doctor 7)) (include Japanese :2)
⑥Faculties	218 (Full-time(only for this course):173 Full-time(at the department offering this course):20, Parttime:25)
⑦Representative of the Course	Job Title Dean, Graduate School of Bioresource and Bioenvironmental Sciences
	Name IMAIZUMI Kazumi

【3. Contents of the Course】

Overview

The Graduate School of Bioresource and Bioenvironmental Sciences regards the role of agricultural sciences to overcome issues related to global food and the environment and to contribute to worldwide progress in maintaining a stable supply of food and materials, conservation of the environment, and promotion of health and welfare. To fulfill this, the School includes leading researchers and specialists highly knowledgeable in the fields of life science, environmental science and socio-economics.

The International Development Research Course aims to build on the capacity of the above fields for international students from developed and developing countries whose aim is to contribute to worldwide sustainable development. The Course follows a 2 semester system, starting in October with the autumn term and followed by the spring term. The classes and thesis works will be carried out in English. On completing the courses, students will be awarded a Master of Science (M.Sc) or Doctor of Philosophy in Agriculture (Ph.D. Agr.).

Master's Course

The Master's program emphasizes the acquirement of synthetic and practical abilities. The course consists of lectures, practicals, seminars, and tutorials. Students must obtain 30 credits with a minimum pass grade of 60 %. An outline of the Master's course subjects is given in Table 1. Compulsory subjects consist of the thesis (12 credits) and laboratory seminars (6 credits); module subjects of 5 subjects from a total of at least 8 (10 credits); and specialized subjects of one specific subject (2 credits) given by the department to which the student belongs. Lectures are given in a **block module format**, that is, a semester comprises three blocks of 4-week intensive classes, each of which includes 1 to 2 module subjects.

Table 1. Subjects offered in the Master's Course

Code*	Subject	Credit	Code*	Subject	Credit
C01	Master's Thesis Research I	6	S01	Applied Genetics and Pest Management	2
C02	Master's Thesis Research II	6	S02	Plant Resources	2
C03	Seminar in a Specified Field I	2	S03	Bioscience and Biotechnology	2
C04	Seminar in a Specified Field II	2	S04	Animal and Marine Bioresource Science	2
C05	Seminar in a Specified Field III	2	S05	Agricultural and Resource Economics	2
(Subtotal)		(18)	S06	Bioproduction and Environmental Science	2
M01	Fundamentals of Agricultural Sciences	2	S07	Forest and Forest Production Science	2
M02	Biological Resources: Utilization & Conservation	2	S08	Genetic Resource Technology	2
M03	Soil and Water Environment	2	(Subtotal)		(2)
M04	Rural Development	2	Total		30
M05	Advanced Technology in Agriculture	2			
M06	Food Science and Food Systems	2			
M07	Special Lecture on International Development I	1			
M08	Special Lecture on International Development II	1			
(Subtotal)		(10)			

*C: compulsory subjects = 5 subjects (18 credit units); M: module subjects = 5 subjects (10 credit units) selected from a total of 8; S: specialized subjects = compulsory and particular to each department (2 credit units).

Doctor's Course

The Doctor's program promotes specialty-specific and creative scientific abilities. To be awarded a Ph.D., students must complete a six-semester course over a three-year period. The course consists of tutorials and tutorial exercises, usually given in a seminar format. Students must conduct thesis research under the supervision of advisory faculty members, and will be expected to have some of their work published in scientific journals. Students must submit their thesis in English to the committee of the course. Oral presentation of the thesis is required in the spring semester of the third year.

Supervising System

The Graduate School of Bioresource and Bioenvironmental Sciences consists of 8 departments, each of which comprises 2 to 6 divisions including over 60 laboratories (Table 2) covering various fields of agriculture, forestry, fishery, animal science, and agricultural economics. The students of the International Development Research Course are allocated in a laboratory and supervised by staff members of the **Faculty of Agriculture, Biotron Institute, Institute of Tropical Agriculture and Bioarchitecture Center**. The course is managed by the Steering Committee.

Table 2. Departments and Laboratories of the Graduate School

I. Applied Genetics & Pest Management		IV. Animal & Marine Bioresource Sciences	
1	Bioresources & Management	1	Advanced Marine & Marine Bioresources
2	Genetics & Plant Breeding	2	Animal Science
	① Plant Breeding		① Functional Anatomy
	② Sericultural Science		② Reproductive Physiology
3	Plant Pathology & Pesticide Science		③ Animal Feed Science
	① Plant Pathology	3	Marine Bioresources
	② Pesticide Science		① Marine Biology
4	Zoology & Entomology		② Fisheries Biology
	① Entomology	4	Fish Production Technology
	② Zoology	V. Agricultural & Resource Economics	
5	Biological Control	1	Agricultural Resource Economics & Business Administration
	① Insect Pathology & Microbial Control		① Environmental Life Economics
	② Insect Natural Enemies		② Agricultural Policy
II. Plant Resources			③ Farm Management
1	Applied Plant Science	2	Industrial Organization of Agribusiness
2	Agricultural Botany		① Food Industrial System Analysis
	① Crop Science		② Food Marketing
	② Horticultural Science	VI. Bioproduction Environmental Sciences	
3	Soil Science & Plant Production	1	Bioproduction & Environmental Information Science
	① Soil Chemistry	2	Regional Environment Science
	② Soil Biology & Biochemistry		① Irrigation & Water Utilization
	③ Plant Nutrition		② Drainage & Water Environment
	④ Plant Production Physiology		③ Environmental Soil Engineering
	⑤ Plant Metabolic Physiology		④ Applied Meteorology
4	Agricultural Ecology	3	Bioproduction System Science
5	Environmental Control for Biology*		① Bioproduction Engineering
6	Tropical Crops & Environment**		② Postharvest Science
III. Bioscience & Biotechnology		VII. Forest & Forest Products Sciences	
1	Applied Biological Regulation Technology	1	Systematic Forest & Forest Products Science
	① Applied Biological Regulation Technology	2	Forest Environment & Management Science
	② Bio-Process Design***		① Forest Management
	③ Metabolic Regulation Research***		② Erosion Control
2	Applied Biological Chemistry		③ Forest Policy
	① Biochemistry	3	Forest Bioscience
	② Chemistry & Technology of Animal Production		① Silviculture
	③ Nutrition Chemistry		② Wood Science
	④ Food Chemistry		③ Forest Chemistry & Biochemistry
3	Food Biotechnology	4	Biomaterial Science
	① Food Analysis		① Wood Material Technology
	② Food Hygienic Chemistry		② Bioresources Chemistry
	③ Food Process & Engineering		③ Biomacromolecular Materials
4	Microbial Science & Technology		④ Biomaterial Design
	① Applied Microbiology	5	Forest Ecosphere Management
	② Microbial Technology		① Forest Ecosystem Management
5	Marine Biological Chemistry		② Forest Resource Management
	① Marine Biochemistry	VIII. Genetic Resources Technology	
	② Marine Resource Chemistry	1	Molecular Gene Technology
	③ Marine Environmental Science	2	Protein Chemistry & Engineering
I~VIII:Department ;		3	Cellular Regulation Technology
1, 2, ... : Laboratory ;		4	Applied Genetic Resources
①、②、... : field			① Silkwarm Genetics
			② Plant Genetics
			③ Microbial Genetics