# 2018 Enrollment Hokkaido University Graduate School of Agriculture Doctoral Course Application Guidelines

Graduate School of Agriculture, Hokkaido University

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# **Application Guidelines**

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How to Request a Copy of the Application Guidelines (Doctoral Course)

Send a self-addressed stamped envelope to the address below. (The envelope should be  $24 \text{ cm} \times 33.2 \text{ cm}$  and have \$205 worth of postage stamps affixed to it or \$485 if you want express delivery. Be sure to write your name, address, and postal code on the envelope.) In the lower left portion of the front of the outer envelope, write in red letters "Request for Doctoral Course Application Guideline."

## Where to submit requests:

Student Affairs Section, Administrative Office of Agriculture and Global Food Resources, Hokkaido University

Kita 9, Nishi 9, Kita-ku, Sapporo 060-8589

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## Educational Philosophy of the Graduate School of Agriculture

The Graduate School of Agriculture aims to produce students who have both basic and specialized knowledge of agriculture by providing advanced, interdisciplinary, and comprehensive education and research opportunities that incorporate both the humanities and the sciences as well as students who have a diverse range of knowledge and the good judgment needed to respond to the various issues facing all of humankind today, including stable food supplies, food safety, the preservation of the global environment, and biomass uses.

#### 1. Number of Students to be Admitted

Division of Bio-systems Sustainability8	
Division of Agrobiology14	
Division of Applied Bioscience6	
Division of Environmental Resources	Total: 42

# 2. Examinations (Specialized Subjects and Foreign Language)

- Select one of the specialized subjects listed below in your preferred chair that corresponds to the academic advisor you intend to work with on your graduate school studies.
- Foreign-language exams are given by individual divisions. However, those who have completed (or expect to complete) the Hokkaido University graduate school's master's course are exempt from the foreign-language exam.
- List of Academic Advisor and exam subjects

D	CI :	Exam Subject				
Division	Chair	Academic	e Advisor	Specialized Subject	Remarks	
		Professor	Yasutaka Yamamoto	Agricultural Policy		
		Lecturer	Daisuke Sawauchi			
		Professor	Shunsuke Yanagimura	Farm Business		
		Lecturer	Tomomi Komatsu	Management		
		Professor	Takumi Kondo	Agricultural and Rural		
		Associate Professor	Hideo Aizaki	Development Economics		
		Professor	Akihiko Sakashita			
	systems	Associate Professor	Park Hong	Agricultural Cooperative		
Division of		Associate Professor	Kuniyuki Kobayashi			
Sustainability		Professor	Hiroshi Sakazume			
		Lecturer	Yoshiharu Shimizuike	Agricultural Marketing		
		Associate Professor	Tomoaki Nakatani	Applied Statistics		
		Lecturer	Yoko Saito	Agricultural Resource Economics		
			Shin Dongcheol	A : 10 10 (:	1	
			Gao Huichen	Agricultural Cooperative	1	
		Associate Professor	Shigenobu Koseki	Agricultural and Food Process Engineering		
	Function of Food	Associate Professor	Junichi Wakamatsu	Meat Science		

Assistant Professor   Taichin Suzuki   Professor   Professor   Assush Vokota   Recurrence   Assush Vokota   Recurrence   Assush Vokota   Recurrence   Assush Vokota   Recurrence   Associate Professor   Yudiharu Fukushi   Recurrence   Recurr		[	Professor	Takanori Nishimura		
Professor Lecturer Satoru Pudiya General Microbiology  Associate Professor Keita Arakawa Woody Plant Biology  Associate Professor Keita Arakawa Woody Plant Biology  Associate Professor Tach Takasuki  Professor Tach Takasuki  Assistant Professor Tach Takasuki  Associate Professor Tach Takasuki  Associate Professor Hayato Maruyama  Professor Professor Hayato Maruyama  Professor Watanabe  Associate Professor Wang Xiafeng  Associate Professor Wang Xiafeng  Associate Professor Tomomichi Kato  Specially Appointed  Associate Professor Tomomichi Kato  Specially Appointed  Associate Professor Youturn Okan  Affiliate Professor Tomogoshi Hirota  Affiliate Professor Tomogoshi Hirota  Affiliate Professor Tomogoshi Hirota  Affiliate Associate  Professor Tomogoshi Hirota  Associate Professor Tomogoshi Hirota  Associate Professor Tomogoshi Hirota  Assistant Professor Tomogoshi Hirota  Affiliate Associate  Professor Tomogoshi Hirota  Affiliate Associate  Professor Tomogoshi Hirota  Affiliate Professor Tomogoshi Hirota  Affiliate Professor Tomogoshi Hirota  Affiliate Associate  Professor Tomogoshi Hirota  Associate Professor Wataka Sato  Affiliate Associate  Professor Tomogoshi Hirota  Associate Professor Massama Sato  Associate Professor Hiroshi Onouchi  Associate Professor Atsuo Kimura  Locturer Tetsuya Yamada  Professor Hasun Takamure  Assistant Professor Tomohiko Kuba  Division of  Agrobiology  Professor Tomohiko Kuba  Locturer Tetsuya Yamada  Professor Tomohiko Kuba  Locturer Tetsuya Yamada  Professor Tomohiko Kuba  Locturer Tetsuya Yamada  Professor Tomohiko Kuba  Locturer Tetsuya Hasuna  Assistant Professor To			Assistant Professor		Muscle Biology	
Lecturer			Professor	Haruhide Mori	Biochemistry	
Associate Professor Valchara Pukushi Conversion  Chair of Biomuss Conversion  Chair of Biomuss Conversion  Chair of Biomuss Conversion  Associate Professor Valchara Pukushi Locturer  Assistant Professor Tacht Takasuka Bioorganic Chemistry  Professor Tacht Takasuka Bioorganic Chemistry  Associate Professor Shinichi Akimoto  Associate Professor Watanabe Coology  Professor Toron Sone Interactions  Associate Professor Hiroshi Tani  Associate Professor Wang Xiifeng  Associate Professor Wang Xiifeng  Associate Professor Voshitaka Uchida  Associate Professor Tomonichi Kato  Specially Appointed Professor Voshitaka Uchida  Assistant Professor Watanabe  Affiliate Professor Tomonichi Kato  Specially Appointed Professor Voshitaka Uchida  Assistant Professor Voshitaka Uchida  Associate Professor Hisonica Associate Professor Associate Professor Associate Professor Associate Professor Hisonica Associate Professor Associate Professor Pythis Repair  Professor Associate Professor Voshitaka Uchida  Associate Professor Voshitaka Uchida  Associate Professor Hisonica Associate Professor Pythis Repair  Associate			Professor	Atsushi Yokota		
Chair of Riomass Conversion  Associate Professor Lecturer Kossiku Takahashi Assistant Professor Professor Shinichi Akimoto Booleganic Chemistry Associate Professor Associate Professor Associate Professor Associate Professor Professor Associate Professor Affiliate Pr			Lecturer	Satoru Fukiya	General Microbiology	
Chair of Applied Molecular Biology   Chair of Applied Molecular Biology   Chair of Applied Molecular Biology   Professor   Assistant Professor   Histon of Agrobiology   Histon of Agrobiology   Professor   Histon of Agrobiology   Histon of Agrobiology   Histon of Histon of Agrobiology   Histon of Histo			Associate Professor	Keita Arakawa	Woody Plant Biology	
Conversion   Lecturer   Kossku Takahashi   Converendibed   Assistant Professor   Shinichi Akimoto   Inaces Evolutionary   Converendibed   Rochemistry		Chair of Riomaga	Associate Professor	Yukiharu Fukushi		
Professor Shinichi Akimoto Insect Evolutionary Ecology  Associate Professor Toshinro Watanabe Assistant Professor Toshinro Matanabe Assistant Professor Teruo Sone Interactions  Professor Teruo Sone Molecular Plant-Microbe Interactions Associate Professor Wang Xiufeng Associate Professor Wang Xiufeng Associate Professor Wang Xiufeng Associate Professor One Specially Appointed Assistant Professor Specially Appointed Assistant Professor Affiliate Professor Affiliate Associate Professor Specially Appointed Associate Professor Affiliate Associate Professor Affiliate Associate Professor Shinichiro Hayashi Cocordo Molecular Biology  Affiliate Associate Professor Shinichiro Asano Associate Professor Shinichiro Asano Associate Professor Associate Professor Entomology and Agricultural Meteorology Assistant Professor Shinichiro Asano Stoto Associate Professor Assuo Kimura Associate Professor Atsuo Kimura Associate Professor Atsuo Kimura Associate Professor Yuji Kishima Associate Professor Yuji Kishima Associate Professor Yuji Kishima Associate Professor Yohe Koide Professor Assistant Professor Chikara Masuta Lecturer Yasuyuki Onodera Kazuyehi Kitazaki Professor Chikara Masuta Lecturer Kenji Nakabara Associate Professor Assistant Professor Assistant Professor Akira Kanazawa Manipulation Manipulation Manipulation Manipulation Associate Professor Akira Kanazawa Manipulation			Lecturer	Kosaku Takahashi	Bioorganic Chemistry	
Associate Professor Watanabe Associate Professor Teruo Sone Professor Teruo Sone Associate Professor Hiroshi Tani Associate Professor Wang Xiufeng Associate Professor Wang Xiufeng Associate Professor Wang Xiufeng Associate Professor Tomomichi Kato Specially Appointed Associate Professor Specially Appointed Assistant Professor Specially Appointed Assistant Professor Specially Appointed Assistant Professor Wulk Stato Affiliate Associate Professor Wulk Stato Associate Professor Wulk Wulk Stato Associate Professor Wulk Wulk Wulk Wulk Wulk Wulk Wulk Wulk			Assistant Professor	Taichi Takasuka		
Associate Professor Chair of Sustainable Agrovacience  Chair of Agrobiology  Professor  Chair of Punction of Sustainable Agrovacience  Chair of Sustainable Agrovacience  Chair of Sustainable Agrovacience  Associate Professor Specially Appointed Assistant Professor Affiliate Professor Affiliate Professor Affiliate Professor Affiliate Professor Affiliate Professor Associate Professor Associate Professor Associate Professor Affiliate Associate Associate Professor Affiliate Associate Associate Professor Affiliate Professor Affiliate Professor Affiliate Professor Affiliate Professor Affiliate Associate Associate Professor A			Professor	Shinichi Akimoto		
Assistant Professor Teruo Sone Interactions Indocudar Plant-Microbe Interactions In			Associate Professor		- St	
Chair of Sustainable Agro-science  Chair of Sustainable Agro-science  Chair of Sustainable Agro-science  Associate Professor  Associate Professor  Associate Professor  Associate Professor  Assistant Professor  Specially Appointed Professor  Affiliate Associate  Professor  Hisanori Bando  Associate Professor  Tomoposhi Hirota  Aspoliate Associate  Crop Breeding Science  Crop Breeding Science  for Cold Regions  Astociate Professor  Associate Professor  Associate Professor  Associate Professor  Associate Professor  Associate Professor  Tomoposhi Hirota  Aspociate Professor  Associate Professor  Associate Professor  Associate Professor  Tomoposhi Hirota  Associate Professor  Associate Professor  Associate Professor  Associate Professor  Tomoposhi Hirota  Associate Professor  Asso			Assistant Professor		Ecology	
Chair of Sustainable Agrovscience  Remote Sensing  Associate Professor  Associate Professor  Associate Professor  Specially Appointed Professor  Specially Appointed Professor  Specially Appointed Professor  Specially Appointed Professor  Affiliate Professor  Associate Professor  Hisanori Bando  Associate Professor  Jun Abe  Professor  Jun Abe  Professor  Associate Professor  Associate Professor  Associate Professor  Yuji Kishima  Associate Professor  Assistant Professor  Yohei Koide  Professor  Assistant Professor  Assistant Professor  Yohei Koide  Professor  Assistant Professor  Assistant Professor  Assistant Professor  Assistant Professor  Assistant Professor  Assistant Professor  Yohei Koide  Professor  Assistant Professor  Associate Professor  Chiara Masuta  Lecturer  Associate Professor  Ass			Professor	Teruo Sone		
Associate Professor Vashitaka Uchida Biogeochemistry Associate Professor Yoshitaka Uchida Biogeochemistry Assistant Professor Tomomichi Kato Ecosystem Ecology Specially Appointed Assistant Professor Shecialdy Appointed Assistant Professor Yutaka Sato Crop Breeding Science for Cold Regions Affiliate Professor Tomoyoshi Hirota Affiliate Associate Professor Norikuni Oka Plant Nutritional Ecology or Soil Science for Cold Regions Affiliate Associate Professor Norikuni Oka Plant Nutritional Ecology or Soil Science Professor Assistant Professor Shinichiro Asano Associate Professor Hisanori Bando Associate Professor Shinichiro Asano Associate Professor Hisanori Bando Associate Professor Hisanori Bando Associate Professor Masanao Sato Associate Professor Hisanori Bando Associate Professor Wasanao Sato Associate Professor Hisanori Bando Associate Professor Wasanao Sato Associate Professor Hisanori Bando Associate Professor Wasanao Sato Associate Professor Hisanori Bando Associate Professor Jui Yamashita Professor Atsuo Kimura Associate Professor Jun Abe Lecturer Tetsuya Yamada Professor Yuji Kishima Associate Professor Jun Abe Lecturer Tetsuya Yamada Plant Genetic Diversity and Evolution Professor Yohei Koide Professor Yohei Koide Professor Tomohiko Kubo Lecturer Yasuyuki Onodera Assistant Professor Kazuyoshi Kitazaki Lecturer Kenji Nakahara Associate Professor Associate Professor Chikara Masuta Lecturer Kenji Nakahara Associate Professor Akira Kanazawa Associate Professor Akira Kanazawa Associate Professor Akira Kanazawa			Associate Professor	Hiroshi Tani	Dt C .	
Associate Professor Voshitaka Uchda Biogeochemistry Associate Professor Tomomichi Kato Ecosystem Ecology Specially Appointed Professor Specially Appointed Assistant Professor Specially Appointed Assistant Professor Affiliate Professor Tomoyoshi Hirota Affiliate Associate Professor Norikuni Oka Plant Nutritional Ecology Organization Conservation Affiliate Associate Professor Tomoyoshi Hirota Affiliate Associate Professor Norikuni Oka Ecology or Soil Science For Cold Regions Affiliate Associate Professor Norikuni Oka Ecology or Soil Science Plant Nutritional Ecology or Soil Science Science Associate Professor Shinichiro Asano Associate Professor Masanao Sato Associate Professor Hitoshi Onouchi Associate Professor Atsuo Kimura Lecturer Masayuki Okuwama Assistant Professor Takayoshi Tagami Professor Jun Abe Plant Genetic Diversity and Evolution Professor Yuji Kishima Associate Professor Ilsuro Takamure Associate Professor Vohei Koide Professor Tomohiko Kubo Lecturer Yasuyuki Onodera Assistant Professor Tomohiko Kubo Lecturer Tatsuji Hataya Lecturer Kenji Nakahara Associate Professor Chikara Masuta Lecturer Kenji Nakahara Associate Professor Associate Professor Assistant Professor Chikara Masuta Lecturer Kenji Nakahara Mamipulation Associate Professor Akira Kanazawa Ocean Cell Biology and Manipulation			Associate Professor	Wang Xiufeng	nemote Sensing	
Sepecially Appointed Professor Specially Appointed Professor Specially Appointed Assistant Professor Affiliate Professor Professor Affiliate Professor Professor Affiliate Associate Professor Hisanori Bando Associate Professor Hisanori Bando Associate Professor Masanao Sato Assistant Professor Masanao Sato Assistant Professor Assistant Professor Masanao Sato Assistant Professor Associate Professor Hitoshi Onouchi Assistant Professor Atsuo Kimura Masayuki Okuyama Assistant Professor Atsuo Kimura Masayuki Okuyama Assistant Professor Jun Abe Lecturer Assistant Professor Yuj Yamashita Professor Yuj Yamada Professor Yuji Kishima Associate Professor Yuji Kishima Associate Professor Yohei Koide Professor Yohei Koide Professor Chikara Masuta Lecturer Assistant Professor Kazuyoshi Kazayushi Associate Professor Chikara Masuta Lecturer Tatsuji Hataya Lecturer Associate Professor Associate Professor Associate Professor Chikara Masuta Lecturer Tatsuji Hataya Associate Professor Assistant Professor Chikara Masuta Lecturer Tatsuji Hataya Associate Professor Associat		Sustainable	Associate Professor	Yoshitaka Uchida		
Professor Specially Appointed Assistant Professor Okair of Applied Molecular Biology  Division of Agrobiology  Professor Agricultural Professor Affiliate Professor Affiliate Professor Affiliate Associate Professor Hisanori Bando Associate Professor Associate Professor Associate Professor Associate Professor Associate Professor Atsuo Kimura Assistant Professor Associate Professor Affiliate Associate Professor Atsuo Kimura Assistant Professor Affiliate Associate Professor Associate Professor Associate Professor Associate Professor Associate Professor Associate Professor Tomohiko Kubo Lecturer Assistant Professor Chikara Masuta Lecturer Tatsuji Hataya Lecturer Associate Professor Chikara Masuta Lecturer Associate Professor Chikara Masuta Lecturer Associate Professor Chikara Masuta Lecturer Associate Professor Akira Kanazawa		Agro-science		Tomomichi Kato	Ecosystem Ecology	
Specially Appointed Assistant Professor  Affiliate Associate Professor  Hitsanori Bando  Associate Professor  Assistant Professor  Assistant Professor  Atsuo Kimura  Assistant Professor  Atsuo Kimura  Assistant Professor  Atsuo Kimura  Assistant Professor  Atsuo Kimura  Assistant Professor  Takayoshi Tagami  Professor  Yuji Kishima  Associate Professor  Assistant Professor  Yuji Kishima  Associate Professor  Assistant Professor  Tomohiko Kubo  Lecturer  Assistant Professor  Tomohiko Kubo  Lecturer  Assistant Professor  Chikara Masuta  Lecturer  Associate Professor  Chikara Masuta  Lecturer  Associate Professor  Associate Professor  Associate Professor  Associate Professor  Associate Professor  Associate Professor  Chikara Masuta  Lecturer  Associate Professor  Associate				Nobutomo Osanai	National Land	
Affiliate Professor Affiliate Professor Affiliate Associate Professor Hisanori Bando Associate Professor Associate Professor Associate Professor Associate Professor Associate Professor Atsuo Kimura Assistant Professor Agricultural Physics Applied Molecular Ecology or Soil Science Applied Molecular Entomology Assistant Professor Associate Professor Atsuo Kimura Associate Professor Agricultural Meteorology Applied Molecular Entomology Applied Molecular Entomology Applied Molecular Entomology Applied Molecular Biology Applied Molecular Entomology Applied Molecular Entomology Assistant Professor Atsuo Kimura Associate Professor Atsuo Kimura Associate Professor Agricultural Meteorology Applied Molecular Entomology Associate Professor Atsuo Kimura Applied Molecular Entomology Associate Professor Yui Yamashita Applied Molecular Entomology Applied Molecular Entomology Applied Molecular Entomology Applied Molecular Entomology App			Specially Appointed	Shinichiro Hayashi		2
Affiliate Associate Professor Norikuni Oka Plant Nutritional Ecology or Soil Science  Professor Hisanori Bando Associate Professor Shinichiro Asano Assistant Professor Masanao Sato  Chair of Applied Molecular Biology  Assistant Professor Hitoshi Onouchi Assistant Professor Atsu Kimura Lecturer Masayuki Okuyama Assistant Professor Takayoshi Tagami  Professor Jun Abe Plant Genetic Diversity and Evolution  Professor Yuji Kishima Associate Professor Yuji Kishima Associate Professor Yuji Kishima Associate Professor Yohei Koide Professor Tomohiko Kubo  Lecturer Yasuyuki Onodera Assistant Professor Tomohiko Kubo  Lecturer Yasuyuki Onodera Assistant Professor Chikara Masuta Lecturer Tatsuji Hataya Lecturer Kenji Nakahara Associate Professor Chikara Masuta Lecturer Kenji Nakahara Associate Professor Associate Professor Associate Professor Associate Professor Associate Professor Chikara Masuta Lecturer Kenji Nakahara Associate Professor Assoc			Affiliate Professor	Yutaka Sato	for Cold Regions	3
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Professor Hisanori Bando Associate Professor Shinichiro Asano Assistant Professor Masanao Sato  Chair of Applied Molecular Biology  Associate Professor Hitoshi Onouchi Assistant Professor Vui Yamashita Professor Atsuo Kimura Lecturer Masayuki Okuyama Assistant Professor Takayoshi Tagami  Professor Jun Abe Lecturer Tetsuya Yamada Professor Yuji Kishima Associate Professor Itsuro Takamure Assistant Professor Yohei Koide Professor Tomohiko Kubo Lecturer Yasuyuki Onodera Assistant Professor Chikara Masuta Lecturer Tatsuji Hataya Lecturer Tatsuji Hataya Lecturer Tatsuji Hataya Lecturer Tatsuji Hataya Associate Professor Masumi Yamagishi Associate Professor Akira Kanazawa  Applied Molecular Applied Molecular Entomology  Molecular Biology  Molecular Enzymology  Plant Genetic Diversity and Evolution  Plant Breeding  Genetic Engineering  Assistant Professor Chikara Masuta Lecturer Tatsuji Hataya Lecturer Genetic Engineering  Cell Biology and Manipulation				Norikuni Oka		3
Chair of Applied Molecular Biology  Chair of Applied Molecular Biology  Assistant Professor Hitoshi Onouchi Assistant Professor Yui Yamashita  Professor Atsuo Kimura Lecturer Masayuki Okuyama Assistant Professor Takayoshi Tagami  Professor Jun Abe Lecturer Tetsuya Yamada Associate Professor Itsuro Takamure Associate Professor Yohei Koide Professor Tomohiko Kubo Lecturer Yasuyuki Onodera Assistant Professor Chikara Masuta Lecturer Tatsuji Hataya Lecturer Tatsuji Hataya Lecturer Kenji Nakahara  Associate Professor Masanao Sato  Associate Professor Atsuo Kimura  Molecular Biology  Molecular Enzymology  Molecular Enzymology  Plant Genetic Diversity and Evolution  Plant Breeding  Plant Breeding  Cenetic Engineering  Cenetic Engineering  Associate Professor Chikara Masuta Lecturer Kenji Nakahara  Associate Professor Masumi Yamagishi Associate Professor Akira Kanazawa  Cell Biology and Manipulation			Professor	Hisanori Bando		
Assistant Professor Masanao Sato  Chair of Applied Molecular Biology  Assistant Professor Hitoshi Onouchi Assistant Professor Yui Yamashita  Professor Atsuo Kimura  Lecturer Masayuki Okuyama  Assistant Professor Takayoshi Tagami  Professor Jun Abe  Lecturer Tetsuya Yamada  Professor Yuji Kishima  Associate Professor Itsuro Takamure  Assistant Professor Yohei Koide  Professor Tomohiko Kubo  Lecturer Yasuyuki Onodera  Kazuyoshi Kitazaki  Professor Chikara Masuta  Lecturer Tatsuji Hataya  Lecturer Kenji Nakahara  Associate Professor Masumi Yamagishi Associate Professor Akira Kanazawa  Cell Biology and Molecular Biology  Molecular Biology  Molecular Enzymology  Molecular Enzymology  Molecular Enzymology  Plant Genetic Diversity and Evolution  Plant Breeding  Cenetic Engineering  Cenetic Engineering  Cell Biology and Manipulation			Associate Professor	Shinichiro Asano		
Chair of Applied Molecular Biology  Assistant Professor Yui Yamashita Professor Atsuo Kimura Lecturer Masayuki Okuyama Assistant Professor Takayoshi Tagami  Professor Jun Abe Lecturer Tetsuya Yamada Professor Yuji Kishima Associate Professor Tomohiko Kubo Lecturer Yasuyuki Onodera Assistant Professor Chikara Masuta Lecturer Tatsuji Hataya Lecturer Tatsuji Hataya Lecturer Kenji Nakahara  Associate Professor Associate Professor Associate Professor Associate Professor Associate Professor Associate Professor Chikara Masuta Lecturer Kenji Nakahara  Associate Professor Akira Kanazawa  Cell Biology and Manipulation			Assistant Professor	Masanao Sato	C.V	
Molecular Biology  Assistant Professor Professor Atsuo Kimura Lecturer Masayuki Okuyama Assistant Professor Takayoshi Tagami Professor Jun Abe Lecturer Tetsuya Yamada Professor Yuji Kishima Associate Professor Itsuro Takamure Assistant Professor Vohei Koide Professor Tomohiko Kubo Lecturer Assistant Professor Chair of Plant Breeding Science  Chair of Plant Breeding Science  Chair of Plant Breeding Science  Assistant Professor Tomohiko Kubo Lecturer Assistant Professor Chikara Masuta Lecturer Tatsuji Hataya Lecturer Associate Professor Akira Kanazawa Cell Biology and Manipulation		Chair of Applied	Associate Professor	Hitoshi Onouchi	Molecular Biology	
Lecturer Masayuki Okuyama  Assistant Professor Takayoshi Tagami  Professor Jun Abe Lecturer Tetsuya Yamada Professor Yuji Kishima Associate Professor Itsuro Takamure Assistant Professor Yohei Koide Professor Tomohiko Kubo Lecturer Yasuyuki Onodera Assistant Professor Kazuyoshi Kitazaki Professor Chikara Masuta Lecturer Tatsuji Hataya Lecturer Kenji Nakahara  Associate Professor Akira Kanazawa  Cell Biology and Manipulation  Molecular Enzymology  Plant Genetic Diversity and Evolution  Plant Breeding  Cenetic Engineering  Cell Biology and Manipulation			Assistant Professor	Yui Yamashita	Molecular Biology	
Division of Agrobiology  Professor Assistant Professor Agrobiology  Plant Genetic Diversity and Evolution  Plant Breeding  Genetic Engineering  Assistant Professor  Assistant Professor Associate Professor Associate Professor Associate Professor Associate Professor Akira Kanazawa  Cell Biology and Manipulation			Professor			
Division of Agrobiology  Professor Jun Abe Lecturer Tetsuya Yamada Professor Yuji Kishima Associate Professor Itsuro Takamure Assistant Professor Professor Tomohiko Kubo Lecturer Yasuyuki Onodera Assistant Professor Chair of Plant Breeding Science  Assistant Professor Chikara Masuta Lecturer Tatsuji Hataya Lecturer Associate Professor Masumi Yamagishi Associate Professor Akira Kanazawa  Cell Biology and Manipulation			Lecturer		Molecular Enzymology	
Division of Agrobiology  Lecturer Tetsuya Yamada Professor Yuji Kishima Associate Professor Itsuro Takamure Assistant Professor Yohei Koide Professor Tomohiko Kubo Lecturer Yasuyuki Onodera Assistant Professor Kazuyoshi Kitazaki Professor Chikara Masuta Lecturer Tatsuji Hataya Lecturer Kenji Nakahara  Associate Professor Masumi Yamagishi Associate Professor Akira Kanazawa  Path Genetic Diversity and Evolution  Plant Breeding Plant Breeding  Plant Breeding  Plant Breeding  Plant Breeding  Plant Breeding  Plant Breeding  Plant Breeding  Plant Genetic Diversity and Evolution  Professor Plant Breeding  Cell Biology and Manipulation			Assistant Professor	İ		
Division of Agrobiology  Lecturer Tetsuya Yamada and Evolution  Professor Yuji Kishima  Associate Professor Itsuro Takamure  Assistant Professor Yohei Koide  Professor Tomohiko Kubo  Lecturer Yasuyuki Onodera  Assistant Professor Kazuyoshi Kitazaki  Professor Chikara Masuta  Lecturer Tatsuji Hataya  Lecturer Kenji Nakahara  Associate Professor Akira Kanazawa  Cell Biology and Manipulation			Professor	Jun Abe	Plant Genetic Diversity	
Professor Yuji Kishima Associate Professor Itsuro Takamure Assistant Professor Yohei Koide Professor Tomohiko Kubo Lecturer Yasuyuki Onodera Assistant Professor Kazuyoshi Kitazaki Professor Chikara Masuta Lecturer Tatsuji Hataya Lecturer Kenji Nakahara  Associate Professor Akira Kanazawa  Cell Biology and Manipulation  Cell Biology and Manipulation			Lecturer	Tetsuya Yamada		
Chair of Plant Breeding Science  Chair of Plant Breeding Science  Assistant Professor  Chair of Plant Breeding Science  Lecturer  Assistant Professor  Kazuyoshi Kitazaki  Professor  Chikara Masuta  Lecturer  Tatsuji Hataya  Lecturer  Kenji Nakahara  Associate Professor  Masumi Yamagishi  Associate Professor  Akira Kanazawa  Cell Biology and Manipulation	9		Professor	Yuji Kishima		
Chair of Plant Breeding Science    Professor			Associate Professor	Itsuro Takamure	Plant Breeding	
Chair of Plant Breeding Science    Lecturer			Assistant Professor	Yohei Koide		
Chair of Plant Breeding Science  Assistant Professor  Chikara Masuta  Lecturer  Tatsuji Hataya  Lecturer  Kenji Nakahara  Associate Professor  Associate Professor  Associate Professor  Associate Professor  Associate Professor  Akira Kanazawa  Cell Biology and Manipulation			Professor	Tomohiko Kubo		
Breeding Science  Assistant Professor  Chikara Masuta  Lecturer  Tatsuji Hataya  Lecturer  Kenji Nakahara  Associate Professor  Associate Professor  Associate Professor  Associate Professor  Associate Professor  Associate Professor  Akira Kanazawa  Associate Professor  Akira Kanazawa  Cell Biology and Manipulation		Chair of Plant	Lecturer		Genetic Engineering	
Lecturer Tatsuji Hataya Pathogen-Plant Interactions  Lecturer Kenji Nakahara  Associate Professor Masumi Yamagishi  Associate Professor Akira Kanazawa  Cell Biology and Manipulation				Kitazaki		
Lecturer Kenji Nakahara  Associate Professor Masumi Yamagishi Associate Professor Akira Kanazawa  Cell Biology and Manipulation			Professor		Pathogon-Dlant	
Associate Professor Masumi Yamagishi  Associate Professor Akira Kanazawa  Cell Biology and Manipulation			Lecturer			
Associate Professor Yamagishi Associate Professor Akira Kanazawa Cell Biology and Manipulation			Lecturer	-		
Associate Professor Akira Kanazawa Manipulation				Yamagishi	Cell Biology and	
Lecturer Tsuyoshi Inukai						
			Lecturer	Tsuyoshi Inukai		

		Affiliate Professor	Takeshi Matsumura	Molecular Farming	4
		Assistant Professor	Maria Stefanie Dwiyanti	Applied Plant Genomics	
		Lecturer	Junichi Kashiwagi	a a:	
		Assistant Professor	Taiken Nakashima	Crop Science	
		Associate Professor	Takashi Suzuki		
		Lecturer	Yutaka Jitsuyama	Horticultural Science	
	Chair of Botany	Assistant Professor	Hanako Shimura		
	and Agronomy	Associate Professor	Kaien Fujino	C DI : I	
		Assistant Professor	Daisuke Tsugama	Crop Physiology	
		Professor	Norio Kondo	Plant Pathology	
		Lecturer	Seishi Akino	3.0	
		Professor	Masashi Takahashi	A : 1D 1: 1	
		Associate Professor	Manabu Kawahara	Animal Breeding and Reproduction	
	Chair of A	Assistant Professor	Hanako Bai		
	Chair of Animal Production	Professor	Koichiro Ueda	Animal Production System	
		Professor	Yasuo Kobayashi		
		Associate Professor	Satoshi Koike	Animal Nutrition	
		Assistant Professor	Yutaka Suzuki		
		Professor	Haruto Kumura	Applied Dairy Food Science	
		Associate Professor	Shigeharu Fukunaga	Science of Animal By-Products	
		Associate Professor	Ken Kobayashi	Cell and Tissue Biology	
		Assistant Professor	Toru Hayakawa	Meat Science	
	Chair of Food Science	Specially Appointed Professor	Hiroshi Hara		
	Science	Associate Professor	Satoshi Ishizuka	Nutritional Biochemistry	
		Lecturer	Tohru Hira		
		Professor	Jun Kawabata		
		Associate Professor	Kei Sonoyama	Food Biochemistry	
		Lecturer	Eisuke Kato		
		Assistant Professor	Wataru Saburi	Biochemistry	
		Associate Professor	Masaru Wada	General Microbiology	
Division of Applied		Associate Professor	Tatsuhiro Ezawa	Rhizosphere Control	
Bioscience		Professor	Hideyuki Matsuura	Bioorganic Chemistry	
		Professor	Yasuyuki Hashidoko		
		Associate Professor	Makoto Hashimoto	Molecular & Ecological Chemistry	
		Lecturer	Yasuko Sakihama		
	Chair of Biomolecular	Lecturer	Kengo Shigetomi	Wood Chemistry and Chemical Biology	
	Chemistry	Affiliate Professor	Tomohiro Tamura		
		Affiliate Professor	Yoichi Kamagata		
		Affiliate Professor	Isao Yumoto		
		Affiliate Associate Professor	Naoki Morita	Applied Microbiology, General Microbiology, or	4
		Affiliate Associate Professor	Wataru Kitagawa	Biochemistry	7
		Affiliate Associate Professor	Yoshitomo Kikuchi		
		Affiliate Associate Professor	Soichiro Kato		

		Professor	Hitoshi Araki	[
		Associate Professor	-	Animal Ecology
		Professor	Eisuke Hasegawa Masahiro Ohara	
			Masahiro Ohara Kazunori	Systematic Entomology
		Associate Professor	Yoshizawa	
	Chair of Ecology and Systematics	Specially Appointed Professor	Hideki Takahashi	
		Assistant Professor	Takayuki Azuma	Plant Systematics
		Assistant Professor	Koh Nakamura	
		Professor	Hiroko Fujita	Plant Ecology
		Assistant Professor	Masaru Kato	Museum Materials Management
		Professor	Takashi Inoue	Land Improvement and
		Lecturer	Tadao Yamamoto	Management
		Professor	Ryoji Sameshima	
		Professor	Takashi Hirano	Ecological and
	CI : CD : :	Lecturer	Keiji Okada	Environmental Physics
	Chair of Regional Environment	Lecturer	Hiroyuki Yamada	
		Professor	Munehide Ishiguro	Soil Physics
		Lecturer	Junichi Kashiwagi	50H 1 Hy0100
		Professor	Ryusuke Hatano	
		Associate Professor	Osamu Nakahara	Soil Science
		Lecturer	Kanta Kuramochi	
		Specially Appointed Professor	Takayoshi Koike	Silviculture & Forest
Division of Environmental		Associate Professor	Masato Shibuya	Ecology Ecology
Resources		Lecturer	Hideyuki Saito	
	Chair of Science of Forest Resources	Professor	Yasumitsu Uraki	Forest Chemistry
		Lecturer	Keiichi Koda	rorest Chemistry
		Associate Professor	Yutaka Tamai	
		Lecturer	Toshizumi Miyamoto	Forest Resource Biology
		Professor	Akio Koizumi	Timber Engineering
		Lecturer	Kei Sawata	1 milyer mighteering
		Professor	Yuzou Sano	Woody Plant Biology
		Assistant Professor	Yusuke Yamagishi	woody I fam Diology
		Professor	Futoshi Nakamura	Forest Ecosystem
		Associate Professor	Junko Morimoto	Management
		Professor	Takashi Yamada	
		Associate Professor	Mio Kasai	Earth Surface Processes and Land Management
		Assistant Professor	Shin'ya Katsura	
		Professor	Hiroaki Kakizawa	Favort Doling
	Chair of Integrated Forest-Landscape	Associate Professor	Yasushi Shoji	Forest Policy
	Management Management	Professor	Tetsuya Kondo	
		Associate Professor	Tetsuya Aikoh	Ornamental Horticulture
		Lecturer	Hajime Matsushima	
		Professor	Tetsuya Kondo	
		Associate Professor	Tetsuya Aikoh	Landscape Architecture
		Lecturer	Hajime Matsushima	

Chair of	Professor	Noboru Noguchi	Field Informatics
Bioproduction Engineering	Associate Professor	Hiroshi Okamoto	rieid informatics
	Specially Appointed Professor	Shuso Kawamura	Agricultural and Food Process Engineering
	Professor	Yoichi Shibata	Crop Production Engineering
	Professor	Kazunori Iwabuchi	Agricultural Bio-system
	Associate Professor	Naoto Shimizu	Engineering
	Associate Professor	Kazunobu Ishii	Agricultural Instrumentation Engineering

<sup>&</sup>lt;sup>1</sup>Endowed laboratory by The Norinchukin Bank

Note: The academic advisors shown in the table are subject to change after the enrollment period.

©The academic advisors shaded in the table do not recruit any new students this time

# 3. Evaluation of Applicants

Admission decisions will be made based on an assessment of the applicant's written and oral exams, master's thesis, and a review of his/her transcript submitted by the dean of the applicant's previous graduate school or other educational institution.

# 4. Application Qualifications

- Individuals who have been awarded or expect to be awarded a master's degree or professional degree in March 2018
- (2) Individuals who have been awarded or expect to be awarded a degree equivalent to a master's degree or professional degree from a foreign university by March 2018
- (3) Individuals who have been awarded or expect to be awarded a degree equivalent to a master's degree or professional degree by taking correspondence courses in Japan offered by a foreign school by March 2018
- (4) Individuals who have completed a foreign university's graduate school coursework at an educational institution in Japan and have been awarded or expect to be awarded a degree equivalent to a master's degree or professional degree by March 2018. The institution needs to be positioned within the school education system of that foreign country as an educational body with a graduate school course and is required to be designated by the Japanese Minister of Education, Culture, Sports, Science and Technology
- (5) Individuals who have been awarded or expected to be awarded a degree equivalent to a master's degree by March 2018 from a United Nations University as prescribed in Article 1(2) of the Act on Special Measures Incidental of Enforcement of the Agreement between the United Nations and Japan regarding the Headquarters of the United Nations University (Act No.72 of 1976), which was established under the December 11, 1972 resolution of the General Assembly of the United Nations
- (6) Individuals who have completed their formal education by taking a correspondence course through a non-Japanese university, an educational institution which received the designation by (4), or the United Nations University, who have passed an examination or a screening equivalent to the regulations by Article 16.2 in Standards for the Establishment of Graduate Schools, and who are recognized to have an academic ability equivalent to Master's degree holders by the Graduate School, or who will obtain it by March 2018. (hereinafter referred to as "individuals from a foreign university who have been passed a Qualifying

<sup>&</sup>lt;sup>2</sup>Endowed laboratory by STC (Sabo & Landslide Technical Center)

<sup>&</sup>lt;sup>3</sup>Cooperative laboratory with the National Agricultural Research Center for Hokkaido Region, National Agriculture and Food Research Organization

<sup>&</sup>lt;sup>4</sup>Cooperative laboratory with Hokkaido Center, National Institute of Advanced Industrial Science and Technology (AIST)

Examination").

- (7) Individuals designated by the minister of education, culture, sports, science and technology (1989 Notice No. 118, Ministry of Education, Science and Culture; 2001 Notice No. 55, Ministry of Education, Culture, Sports, Science and Technology)
  - (a) Those who have graduated from a university, have worked for two years or longer at a university or research institution, and have earned a master's degree or are recognized by the Hokkaido University Graduate School of Agriculture as possessing equivalent or greater academic capabilities based on its research findings
  - (b) Those who have completed 16 years of school education in a foreign country or 16 years of school education of a foreign country by taking a correspondence course in Japan offered by a school of that foreign country, have worked for two years or longer at a university or research institution, and have earned a master's degree or are recognized by the Hokkaido University Graduate School of Agriculture as possessing equivalent or greater academic capabilities based on its research findings
- (8) Individuals who are recognized by this graduate school as possessing the equivalent or greater academic skills as that of a person who has a master's degree or professional degree based on an individual admission qualification screening and who will be 24 years of age as of March 31, 2018\*
  \*This qualification applies to those who do not have the qualifications of a university graduate, such as graduates of a national college of technology, junior college, specialized training college, or other types of schools as well as graduates of Japanese branch schools of foreign universities or foreign schools.

Note: Individuals applying based on qualification (6) or (7) or (8) are required to undergo a preliminary review of application qualifications, so be sure to submit the following documents between November 24 (Fri.) and December 1 (Fri.), 2017.

In the case of (6)..."Application form for the preliminary review of application qualifications" and "Success certificate of the Qualifying Examination"

In the case of (7) or (8)..."Application form for the preliminary review of application qualifications", "Certificate verifying your research history", "Record of research findings", and "Letter of recommendation from the director, etc., of the institution where you conducted research or an equivalent document"

Be sure to use the prescribed forms for "Application form for the preliminary review of application qualifications", "Certificate verifying your research history", and "Record of research findings".

#### 5. Application Materials

Application From	Use the prescribed form.
11	Affix a photo of yourself (taken within 3 months of application, 4 cm
Admission Ticket Photograph Ticket	high $\times$ 3 cm wide, upper body, facing front, no hats) to the appropriate
rnotograph ricket	spot on each form.

Examination fee: ¥30,000	(a) Pay the examination fee at a post office or bank using the attached
Note: Government-funded	payment slip and then affix the validated portion to the designated
international students, China	section of the sticking form.
Scholarship Council (CSC)	(b) Upon payment of the examination fee, the post office or bank will
supported students, Hokkaido	validate the payment slip. Be sure this portion is stamped with the
University President's	payment date. Applications with receipts that are not date-stamped
Fellowship international	will not be processed.
students and those who expect	(c) Examination fees cannot be paid in cash or by regular money order,
to earn a master's degree from	so be sure to complete the bank transfer procedure at a post office or
this graduate school are exempt	bank. You may not make your payment at an ATM.
from this fee.	(d) Once application materials have been accepted, the examination fee
	will not be refunded for any reason except those listed below.
	Situations Warranting a Refund of the Examination Fee
	A. If an individual paid the examination fee but did not apply for
	admission (did not submit an application or submitted an application
	that was not accepted)
	B. If the examination fee was accidentally paid twice
	C. If a person who is exempt from the fee pays the fee
Transcript	Issued by the dean of your graduate school, etc.
Certificate of (expected)	Issued by the dean of your graduate school, etc.
completion	issued by the dean of your graduate school, etc.
Copy of your master's thesis or	N-4
an abstract thereof (Japanese: 2,000 to 3,000 characters,	Not required of applicants who completed or expect to complete courses
English: 1,100 to 1,700 words)	at Graduate School of Agriculture, Hokkaido University.
	Fill out and submit the prescribed form provided
Elective exam subject form	Fill out and submit the prescribed form provided.
Envelope in which your	Write your name, address, and postal code on the envelope provided,
admission ticket is to be mailed	affix ¥362 worth of postage stamps to it, and submit it. Please do not
admission deact is to be maned	put a line through the honorific ending 様 (sama) already printed.
Contact information stickers	Fill out and submit the prescribed form provided.

Notes: 1. Individuals applying based on qualification (6) or (7) or (8) will receive separate instructions about application materials when they receive the results of their preliminary review.

- 2. International student applicants will receive separate instructions.
- 3. Special accommodations need to be made to enable physically handicapped applicants to take the entrance examination and attend university classes. Thus, physically handicapped applicants should contact the Student Affairs Section, Agricultural Studies Administration Office.

# 6. Application Period, etc.

(1) Period: December 25 (Mon.), 2017 through January 5 (Fri.), 2018 (except for December 29<sup>th</sup> (Fri.) to January 3<sup>rd</sup> (Wed.))

Hours: 9:00 a.m. to 5:00 p.m. (closed weekends)

If mailing your application, mark the outside of the envelope "Graduate School Doctoral Course Admission Application" in red ink and send it by simplified registered mail so that it arrives at the university during the application period.

(2) Place: Student Affairs Section, Administrative Office of Agriculture and Global Food Resources, Hokkaido University

#### 7. Examination Dates and Place

Date	Time	Exam Category		Place
E.1. 12 /E	10:40 to 12:00	Foreign language		
February 13 (Tue.)	13:00 to 15:30	Specialized subjects		Graduate School of Agriculture,
February 14(Wed.)	• 13:00 • 15:00 (only for applicants to the Division of Bio-systems Sustainability)	Oral interview	Conducted by division	Hokkaido University Kita 9, Nishi 9, Kita-ku, Sapporo

#### 8. Announcement of Exam Results

Results will be posted in the front entrance hall of the Graduate School of Agriculture at 16:00 (subject to change) on March 2 (Fri.), 2018. At the same time, results will be mailed to applicants individually. Information about whether an applicant has passed or failed the exam will not be provided over the phone.

#### 9. Enrollment Fee and Tuition

- (1) Enrollment fee: ¥282,000
  - Applicants who have completed this graduate school's master's course and are continuing on to the doctoral course do not need to pay this fee.
- (2) First-semester tuition: ¥267,900 (annual total: ¥535,800)

Note: The above amounts are estimates. If these figures are revised at the time of admission or during enrollment, the new amount will apply as of the time of revision.

## 10. Notice

For the "Academic Background and Work History" section of the admission application, be sure to list information for all time periods since graduating from high school. Do not leave any periods of time unaccounted for. If an applicant has been accepted but is found to have provided false or incomplete information, that applicant's enrollment may be canceled.

# 11. Privacy Policy

Names, addresses, and other personal information provided to the university on application documents will be used solely for enrollee selection, the announcement of exam results, and admission procedures. The personal information of those who are accepted for admission shall also be used for administrative purposes after enrollment (student registration, academic counseling, etc.), student support services (health management, scholarship applications, etc.), and administrative tasks related to tuition, etc.

Only the names and addresses of applicants will be used to facilitate communications from the Hokkaido University Frontier Foundation and an organization associated with the university: the Hokkaido University Athletic Union. The information will not be used for any purpose other than those mentioned above.

#### 12. Others

Japanese students who wish to write a thesis in English could participate in the "Special Postgraduate Program in Biosphere Sustainability Science. (Special Postgraduate Program)" A qualification screening to participate in the program will be conducted after the enrollment. For the outline and participating laboratories of the Special Postgraduate Program, please confirm the following website. (http://www.agr.hokudai.ac.jp/en/spgp/)

Notice: Graduate School of Agriculture is planning to restructure the faculties in 2019 academic year. The detailed information will be uploaded on a website once finalized.

October 2017

Graduate School of Agriculture, Hokkaido University Kita 9, Nishi 9, Kita-ku, Sapporo 060-8589 Tel: 011-706-4041/2422 E-mail: kyomu@agr.hokudai.ac.jp

#### **Long-Term Study System**

#### 1. Purpose of the Long-Term Study System

The long-term study system is available to students who would not be able to complete the program within the standard course term (two years for a master's course and three years for a doctoral course) due to full-time employment or other circumstances (including responsibilities related to the care of elderly or disabled family members or the raising of children) and therefore want a longer period of time to conduct their studies systematically. Students must file an application and may be approved for a systematically planned course of study (hereinafter referred to as "long-term study") after an individual review.

#### 2. Eligibility for the Long-Term Study System

Individuals applying for the long-term study system must qualify as one of those listed below, be unable to make a commitment to full-time studies as a consequence of the circumstances described, and would therefore like to extend in advance the number of years over which they will conduct their studies (research).

- (1) Individuals who are engaged in full-time employment, such as those currently employed by government agencies or companies (excluding those who will continue to receive salaries while being relieved of their work duties), and self-employed individuals
- (2) Individuals who are engaged in temporary or part-time employment that adversely affects their studies
- (3) Individuals whose responsibilities, such as raising children or caring for other family members, adversely affect their studies to the same degree as the responsibilities listed in item (2) above
- (4) Individuals who have disabilities such as visual, hearing and orthopedic impairments, etc. and such disabilities are recognized as having a significant impact on their study at the Graduate Schools over a long period of time.

#### 3. Long-Term Study Period

The allowable length of period under the long-term study system is up to four years for a master's course and up to six years for a doctoral course. Study periods for long-term study applicants are approved in one-year increments. The maximum length of enrollment for a student who has been approved for long-term study is up to an additional two years beyond the approved long-term study period in the master's course and six years in the doctoral course, the same maximum length of time as students under the standard term of study.

The period of time off that the Graduate School of Agriculture will allow is the same for students under either the standard term of study or long-term study program, i.e., two years for master's students and three years for doctoral students.

## 4. Application Procedures for the Long-Term Study System

(1) Application Deadline

Those wishing to apply for the long-term study system should apply at the time they submit their admission applications. Application forms for the long-term study system are available at the Students Affairs Section, Administrative Office of Agriculture and Global Food Resources:

(2) Submission of Documents

Submit the following documents to the Students Affairs Section, Administrative Office of Agriculture and Global Food Resources:

- (a) Application for long-term study (form 1)
- (b) Long-term study plan (form 2)
- (c) Materials verifying your reasons for needing long-term study approval
- (3) Notification of Review Results

The dean of the graduate school will notify applicants of the results of their reviews.

#### 5. Contraction or Extension of the Long-Term Study Period

If deemed necessary by the Graduate School of Agriculture, approval may be granted for a contraction or extension of the long-term study period once, and only once, during the student's period of enrollment.

For more information, contact the Students Affairs Section, Administrative Office of Agriculture and Global Food Resources.

#### 6. Tuition Adaptations

The tuition of students who have been approved for the long-term study system shall be calculated in annual amounts by dividing the total tuition for the standard term of study (master's course: annual tuition  $\times$  2 years; doctoral course: annual tuition  $\times$  3 years) by the number of years for which the long-term study has been approved. In cases where the tuition amount is revised or a change to the long-term study period is approved, tuition will be recalculated at that time. However, any tuition already paid will not be adjusted retroactively.

Be sure not to pay the tuition for your current term of study until you are notified of whether your application for the long-term study system or a change thereof has been approved.

#### Educational Philosophy and Specialized Curriculum of Each Division and Chair

#### 1. Division of Bio-systems Sustainability

This division covers food safety, production environments and living environments, biomass use, and the symbiosis between living organisms. Specifically, topics will include the social scientific analysis of the most essential food for survival and environments used as the production bases of such food; the pursuit of functionality for ensuring the safety of food and food products and building a healthy society; the environment-friendly use of biomass production, including food; and ways to achieve a balance between humans and the earth, humans and other living beings, and humans and other humans to achieve a sustainable existence.

- (1) Chair of Agricultural and Resource Economics: This chair covers socioeconomic problems related to food, resources, and environments that affect the social infrastructure for human survival. The chair fosters an understanding of food system development and food safety; the construction of sustainable agricultural and fisheries production systems; the formation of a recycling-oriented society that takes environmental problems into consideration and building a partnership in that society; the formation of landscapes that can accommodate many agricultural functions and the tourism development of farming villages; and global population and food problems.
- (2) Chair of Safety and Function of Food: This chair covers food safety; the establishment of safe food storage methods; the search for safe food product ingredients and the development of functional food that uses enzyme reactions, etc.; the search for microorganisms that have new functions, that live in the gastrointestinal tracts of animals and humans; and so forth.
- (3) Chair of Biomass Conversion: This chair analyzes the basis of the living environments from the perspectives of physics and chemistry to mitigate the increase in CO<sub>2</sub> in the air due to the consumption of fossil fuels and to reduce associated global warming. The chair also covers the development of new resource plants, environmental adaptation mechanisms of resource plants, the process control of biomass-based products and the conversion to energy using physical and biochemical methods, and the provision of added value to biomass resources through chemical conversion.
- (4) Chair of Sustainable Agro-science: This chair identifies the mechanisms of mutual interaction between living organisms—including animals, plants, and microorganisms—and the symbiotic relationships between them and integrates those relationships into systems that have allowed for the achievement in recent years of innovative technological developments in stable, safe, and environmentally focused primary production. To this end, students learn about the predation chain and symbiotic relationships between living beings as well as the principles at work therein by analyzing the patterns of behavior of animals. They analyze the rhizosphere environments of plants from the perspectives of biology, microbiology, and chemistry and develop the skills to comprehensively understand complex systems and analyze, restore, and preserve the relationships between production systems and their peripheral environments.

#### 2. Division of Agrobiology

This division covers basic and applied research on food development and production. Specifically, it teaches students about the development and use of crops as well as plant and animal resources. It also teaches them to develop technologies that enable sustainable production. It covers the prevention of pests and weeds using environmentally sound means; the preservation and functional analysis of genetic resources; the analysis of the gene expression mechanisms and functions of proteins in animals and plants; and animal nutrition and production systems, from the molecular level to actual production.

- (1) **Chair of Applied Molecular Biology:** Living organisms are living systems, the characteristic of which is that they can self-replicate. Various types of living organisms engage in self-replication and metabolism, while adapting to their environments. Students analyze complex gene expression mechanisms that play important roles in the maintenance of these living systems and apply their findings to the context of crop production.
- (2) Chair of Plant Breeding Science: Using methods that range from basic biology to molecular and cellular biology, students will implement the development of materials ranging from advanced plants to viruses while analyzing their functions and comprehensively breed new plant varieties that aim for the genetic control of environmentally sound living organisms.
- (3) **Chair of Botany and Agronomy:** Students will analyze the production functions of plants, particularly those used in food and horticultural crops, under diverse environmental conditions using techniques from the fields of physiology, pathology, and ecology. They will study the development of sustainable food production premised on the efficient use of resources and environmental preservation.
- (4) Chair of Animal Production: Students will study principles that are common to livestock production systems, whose foundation is the soil, and will study livestock production comprehensively from the molecular level to the individual animal and herd level, including the symbiotic relationship between livestock and production environment factors.

#### 3. Division of Applied Bioscience

In this division, students gain a basic understanding of biofunctions and learn about the applied development of that knowledge. Specifically, using recently developed techniques in the fields of bioscience and biotechnology, students learn about macro-level identification and systems involved in the use of biological functions and bio-resources from the micro-level viewpoint, such as molecules.

- (1) Chair of Food Science: Students will study the diversity and functionality of animals, plants and microorganisms as food sources and their effective use. More specifically, students will take a comprehensive look at animals, plants and microorganisms as food sources and gain a comprehensive understanding of their nutritional physiology and biological regulatory functions that occur when food is in their digestive tracts, when it moves from the digestive tract into the body, and while it is in the body. In addition, potential of their materials for biological modulation on the cutaneous appendages is to be evaluated. They will also learn about the reuse of the inedible portions of food resource biomass in products that are used in everyday life.
- (2) Chair of Biomolecular Chemistry: Students will study microorganisms, plants, and animal cells and use methods from biochemistry, microbiology, protein engineering, genetic engineering, and organic chemistry to discover their functions and complex mutual interactions. Using this knowledge, students will explore the control of biological functions, discover new functions, and seek applications in bioproduction, useful substance production through bioprocesses, environmental control, and substances and materials with new functions.

#### 4. Division of Environmental Resources

This division offers basic and applied education and research for achieving a balance between the environment and biological production. Specifically, it covers the understanding of the diversity, use, and management of biological resources; the management and control of environmental resources, primarily air, soil, and water; the understanding of the physiology and ecology of living organisms in forests, the sustainable use of them, and technological development for such use; the management, preservation, planning, multipurpose use, and ecosystem restoration of forests and green spaces; and environmentally sound food production and substance recycling systems.

- (1) Chair of Ecology and Systematics: Students gain an understanding of the diversity of living organisms through their patterns (ecology and taxonomy) and development (evolution). From these perspectives, the chair will explain the conditions of living beings in natural outdoor environments and in such man-made environments as farms and cities. Also, it will cover the preservation and management of species and ecosystems in danger of extinction.
- (2) Chair of Regional Environment: Students study the preservation and advanced use of the basic elements of the natural environment, that is, soil, water, and air; the substance recycling and energy flow between elements; the mutual interactions between elements, including living beings; and the efficient acquisition and analysis of comprehensive information on the natural environment. Through these studies, students will develop capabilities so that they will contribute to the creation of high-quality local environmental foundations and the formation of sustainable local communities.
- (3) Chair of Science of Forest Resources: Students examine the various phenomena of forests and the physiological phenomena specific to timber using theories and techniques from related fields, such as ecology, physiology, genetics, anatomy, molecular biology, structural mechanics, and biochemistry. They will apply this knowledge to the preservation and sustainable use of forest resources, striving to develop new effective uses and advanced processing technologies for timber resources and exploring and developing uses for currently unused forest resources, such as fungi.
- (4) Chair of Integrated Forest-Landscape Management: Students study the functions of forests and green spaces, which are the greatest natural inland resources, using methods from the natural and social sciences and learn about the development of new methods for multipurpose management, preservation, and planning. They will also learn about natural disaster mitigation measures, groundwater environment preservation, nature revitalization, and ecosystem restoration technologies in the watershed zones that surround forests and green areas.
- (5) Chair of Bioproduction Engineering: Students study food, from food production to use, mainly from physiological perspectives. With the goal of building sustainable systems of agricultural production and use that to address issues related to the environment, people, and society, students study and work to develop new technologies related to the means of food production, processing and storage methods for agricultural products, and the use and disposal methods of organic waste from the perspectives of the environment, energy, human labor, food safety, sustainable food supplies, substance recycling, and so forth.

# List of Academic Advisors in the Graduate School of Agriculture

October 1, 2017

Division of Bio-systems Sustainability

Division of Bio-system	
Chair	Academic Advisor in Charge (Field of Specialization [Name of Unit])
Chair of Agricultural	Professor:
and Resource	Yasutaka Yamamoto (Agricultural and Environmental Policy)
Economics	Shunsuke Yanagimura (Farm Business Management)
	Akihiko Sakashita (Regional Alliances Economics Agricultural Organizations)
	Takumi Kondo (Agricultural Development)
	Hiroshi Sakazume (Food and Agricultural Marketing)
	Associate Professor:
	Hideo Aizaki (Agricultural Development)
	Park Hong (Regional Alliances Economics Agricultural Organizations)
	Tomoaki Nakatani <sup>5</sup> (Agro-Food Economics and Statistics)
	Kuniyuki Kobayashi <sup>5</sup> (Regional Alliances Economics Agricultural Organizations)
	Chanielly Amet Associate Duofesson
	Specially Appt. Associate Professor: Shin Dongcheol <sup>4</sup> (Cooperative's Raison D'être)
	Shin Dongcheor (Cooperative's Raison Dette)
	Lecturer:
	Daisuke Sawauchi (Agricultural and Environmental Policy)
	Yoshiharu Shimizuike (Food and Agricultural Marketing)
	Yoko Saito <sup>5</sup> (Agricultural Resource Economics)
	Tomomi Komatsu (Farm Business Management)
	Tomom Tommou (C and 2 asmoss Timings mone)
	Specially Appt. Assistant Professor:
	Gao Huichen <sup>4</sup> (Cooperative's Raison D'être)
Chair of Safety and	Professor:
Function of Food	Takanori Nishimura (Muscle Cell Molecular Science)
	Haruhide Mori (Chemistry of Functional Foods)
	Atsushi Yokota (Gastrointestinal Microbiology)
	Associate Professor:
	Shigenobu Koseki (Comprehensive Technical Management for Foods)
	Junichi Wakamatsu <sup>1</sup> (Meat Science)
	Lecturer:
	Satoru Fukiya (Gastrointestinal Microbiology)
	Assistant Desferre
	Assistant Professor:
Chair of Biomass	Takahiro Suzuki (Muscle Cell Molecular Science) Associate Professor:
Conversion	
Conversion	Keita Arakawa (Plant Resource Invention)
	Yukiharu Fukushi (Chemical Biology)
	Lecturer:
	Kosaku Takahashi (Chemical Biology)
	Trouble Tallation (Chemical Diologi)
	Assistant Professor:
	Taichi Takasuka <sup>5</sup> (Genome-enabled Biochemistry)
Chair of Sustainable	Professor:
Agro-science	Shinichi Akimoto (Insect Evolutionary Ecology)
	Teruo Sone <sup>5</sup> (Molecular Plant-Microbe Interactions)
	(

Chair of Sustainable	
Agro-science	Specially Appt. Professor:
	Nobutomo Osanai (National Land Conservation <sup>4</sup> )
	Affiliate Professor:
	Tomoyoshi Hirota <sup>2</sup> (Regional Agricultural Bioscience)
	Yutaka Sato <sup>4</sup> (National Land Conservation)
	Associate Professor:
	Hiroshi Tani (Bio-environmental Informatics)
	Wang Xiufeng (Bio-environmental Informatics)
	Toshihiro Watanabe (Plant Nutritional Ecology)
	Yoshitaka Uchida <sup>5</sup> (Environmental Biogeochemistry)
	Affiliate Associate Professor:
	Norikuni Oka (Regional Agricultural Bioscience <sup>2</sup> )
	Assistant Professor:
	Tomomichi Kato <sup>5</sup> (Terrestrial Ecosystem Modeling)
	Hayato Maruyama (Plant Nutritional Ecology)
	Creatistly Annt Assistant Professor
	Specially Appt. Assistant Professor:
	Shinichiro Hayashi <sup>4</sup> (National Land Conservation)

Division of Agrobiology

Division of Agrobiology	
Chair	Academic Advisor in Charge (Field of Specialization [Name of Unit])
Chair of Applied	Professor:
Molecular Biology	Hisanori Bando (Applied Molecular Entomology)
	Atsuo Kimura (Molecular Enzymology)
	Associate Professor:
	Shinichiro Asano (Applied Molecular Entomology)
	Hitoshi Onouchi (Molecular Biology)
	Lecturer:
	Masayuki Okuyama (Molecular Enzymology)
	Wasayuki Okuyama (Woleculai Elizymology)
	Assistant Professor:
	Masanao Sato (Applied Molecular Entomology)
	Takayoshi Tagami (Molecular Enzymology)
Chair of Plant	Professor:
Breeding Science	Jun Abe (Plant Genetics and Evolution)
	Yuji Kishima (Plant Breeding)
	Chikara Masuta (Pathogen-Plant Interactions)
	Tomohiko Kubo (Genetic Engineering)
	Affiliate Professor:
	Takeshi Matsumura (Molecular Farming <sup>2</sup> )
	Tukesiii Wuusuinutu (Woreedidi Turimiig )
	Associate Professor:
	Masumi Yamagishi (Cell Biology and Manipulation)
	Akira Kanazawa (Cell Biology and Manipulation)
	Lecturer:
	Itsuro Takamure <sup>5</sup> (Plant Breeding)
	Tatsuji Hataya (Pathogen-Plant Interactions)

	Tsuyoshi Inukai (Cell Biology and Manipulation)
	Tetsuya Yamada (Plant Genetics and Evolution)
	Yasuyuki Onodera (Genetic Engineering)
	Kenji Nakahara (Pathogen-Plant Interactions)
	Assistant Professor:
	Yohei Koide (Plant Breeding)
	Kazuyoshi Kitazaki (Genetic Engineering)
	Maria Stefanie Dwiyanti (Applied Plant Genomics)
Chair of Botany and	Professor:
Agronomy	Norio Kondo <sup>1</sup> (Plant Pathology)
Agronomy	Nono Kondo (Piant Pathology)
	Associate Professor:
	Kaien Fujino (Crop Physiology)
	Takashi Suzuki (Horticultural Science)
	Masumi Yamagishi (Plant Functions Development)
	Wasumi Tamagisiii (Tiant Tunctions Development)
	Lecturer:
	Junichi Kashiwagi (Crop Science)
	Yutaka Jitsuyama (Horticultural Science)
	Seishi Akino (Plant Pathology)
	Assistant Professor:
	Hanako Shimura (Horticultural Science)
	Daisuke Tsugama (Crop Physiology)
	Taiken Nakashima (Crop Science)
Chair of Animal	Professor:
Production	Masashi Takahashi <sup>5</sup> (Animal Breeding and Reproduction)
	Yasuo Kobayashi (Animal Nutrition)
	Koichiro Ueda (Animal Production System)
	A CONTRACTOR OF THE CONTRACTOR
	Associate Professor:
	Manabu Kawahara (Animal Breeding and Reproduction)
	Satoshi Koike (Animal Nutrition)
	Assistant Professor:
	Hanako Bai (Animal Breeding and Reproduction)
	Yutaka Suzuki (Animal Nutrition)

# Division of Applied Bioscience

Chair	Academic Advisor in Charge (Field of Specialization [Name of Unit])
Chair of Food Science	Specially Appt. Professor:
	Hiroshi Hara (Food Science for Health)
	Professor:
	Haruto Kumura (Applied Food Science)
	☆Jun Kawabata (Food Biochemistry)
	Associate Professor:
	Shigeharu Fukunaga (Animal By-product Science)
	♦ Kei Sonoyama (Food Biochemistry)
	Satoshi Ishizuka (Nutritional Biochemistry)
	Ken Kobayashi (Functional Histocytology)
	Lecturer:

	Tohru Hira (Food Science for Health)
	Eisuke Kato (Food Biochemistry)
	·
	Assistant Professor:
	Toru Hayakawa (Applied Food Science)
Chair of Biomolecular	Professor:
Chemistry	Yasuyuki Hashidoko (Molecular & Ecological Chemistry)
	Hideyuki Matsuura (Natural Products Chemistry)
	Affiliate Professor:
	Tomohiro Tamura <sup>2</sup> (Molecular Environmental Microbiology)
	Yoichi Kamagata <sup>2</sup> (Molecular Environmental Microbiology)
	Isao Yumoto <sup>2</sup> (Molecular Environmental Microbiology)
	Associate Professor:
	Masaru Wada (Microbial Physiology)
	Tatsuhiro Ezawa (Rhizosphere Control)
	Makoto Hashimoto (Molecular & Ecological Chemistry)
	Affiliate Associate Professor:
	Naoki Morita <sup>2</sup> (Molecular Environmental Microbiology)
	Wataru Kitagawa <sup>2</sup> (Molecular Environmental Microbiology)
	Yoshitomo Kikuchi <sup>2</sup> (Molecular Environmental Microbiology)
	Souichiro Kato <sup>2</sup> (Molecular Environmental Microbiology)
	Lecturer:
	Yasuko Sakihama (Molecular & Ecological Chemistry)
	Kengo Shigetomi (Wood Chemistry & Chemical Biology)
	Assistant Professor:
	Wataru Saburi (Biochemistry)

# Division of Environmental Resources

Chair	Academic Advisor in Charge (Field of Specialization [Name of Unit])
Chair of Ecology and	Specially Appt. Professor:
Systematics	Hideki Takahashi <sup>3</sup> (Plant Systematics)
	Professor:
	Masahiro Ohara <sup>3</sup> (Entomology)
	Hitoshi Araki (Animal Ecology and Evolution)
	Hiroko Fujita <sup>1</sup> (Plant Ecology and Systematics)
	Associate Professor:
	Eisuke Hasegawa (Animal Ecology)
	Kazunori Yoshizawa (Phylogenetic Systematics)
	Assistant Professor:
	Takayuki Azuma <sup>1</sup> (Plant Ecology and Systematics)
	Koh Nakamura <sup>1</sup> (Plant Ecology and Systematics)
	Masaru Kato <sup>1</sup> (Museology and Museum Materials Management)
Chair of Regional	Professor:
Environment	Ryoji Sameshima (Ecological and Environmental Physics)
	Munehide Ishiguro (Soil Physics)
	Ryusuke Hatano (Soil Science)
	Takashi Hirano (Ecological and Environmental Physics)
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	Takashi Inoue <sup>5</sup> (Water and Soil Environmental Science)
	Associate Professor:
	Osamu Nakahara (Soil Science)
	Lecturer:
Chair of Regional	Tadao Yamamoto (Water and Soil Environmental Science)
Environment	Keiji Okada (Agricultural and Environmental Physics Ecological and
	Environmental Physics) Junichi Kashiwagi <sup>5</sup> (Soil Conservation)
	Kanta Kuramochi (Soil Science)
	Hiroyuki Yamada (Ecological and Environmental Physics)
Chair of Science of Forest Resources	Specially Appt. Professor:
Forest Resources	Takayoshi Koike (Silviculture and Forest Ecology)
	Professor:
	Yasumitsu Uraki (Forest Chemistry)
	Yuzou Sano (Woody Plant Biology)
	Akio Koizumi (Timber Engineering)
	Associate Professor:
	Masato Shibuya (Silviculture and Forest Ecology)
	Yutaka Tamai (Forest Resource Biology)
	Lecturer:
	Hideyuki Saito (Silviculture and Forest Ecology)
	Keiichi Koda (Forest Chemistry)
	Toshizumi Miyamoto (Forest Resource Biology) Kei Sawata (Timber Engineering)
	Rei Sawata (Timber Engineering)
	Assistant Professor:
Chair of Integrated	Yusuke Yamagishi (Woody Plant Biology)  Professor:
Forest-Landscape	Futoshi Nakamura (Forest Ecosystem Management)
Management	Hiroaki Kakizawa (Forest Policy)
	Tetsuya Kondo (Environmental Horticulture and Landscape Architecture)
	Takashi Yamada (Earth Surface Processes and Land Management)
	Associate Professor:
	Mio Kasai (Earth Surface Processes and Land Management)
	Yasushi Shoji (Forest Policy)
	Tetsuya Aikoh (Environmental Horticulture and Landscape Architecture) Junko Morimoto (Forest Ecosystem Management)
	Juliko Moninoto (1 ofest Leosystem Management)
	Lecturer:
	Hajime Matsushima (Environmental Horticulture and Landscape Architecture)
	Assistant Professor
	Shin'ya Katsura (Earth Surface Processes and Land Management)
Chair of Bioproduction	Specially Appt. Professor:
Engineering	Shuso Kawamura <sup>5</sup> (Agricultural and Food Process Engineering)
	Professor:
	Noboru Noguchi (Vehicle Robotics)
	☆ Yoichi Shibata (Crop Production Engineering)
	Kazunori Iwabuchi (Agricultural Circulative Engineering)

Associate Professor:
Hiroshi Okamoto (Vehicle Robotics)
Naoto Shimizu <sup>1</sup> (Agricultural Circulative Engineering)
Kazunobu Ishii <sup>5</sup> (Applied Bioproduction Engineering)

#### Notes

- 1. Field Science Center for Northern Biosphere
- 2. Unit (laboratory) affiliated with an organization outside the Graduate School of Agriculture
- 3. Hokkaido University Museum
- 4. Unit (laboratory) endowed by an organization outside the Graduate School of Agriculture
- 5. Graduate School of Global Food Resources

Those with  $\stackrel{\wedge}{\approx}$  will be resigned (retired) as of March 31, 20178.

Those with  $\diamondsuit$  will be supervisors at the Graduate School of Agriculture from April 1, 2018.

©The academic advisors shaded in the table do not recruit any new students this time.