2017 Enrollment
Hokkaido University
Graduate School of Agriculture
Master's Course
(2nd -Term Exam)

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 (Master's 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 Master's Course Application Guideline."

Where to submit requests:

Student Affairs Section, Agricultural Studies Administration Office, Hokkaido University

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

2017 Enrollment Hokkaido University Graduate School of Agriculture Master's Course (2nd -Term Exam) Application Guidelines

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 Sustainability....(Several)
Division of Agrobiology.....(Several)
Division of Applied Bioscience.....(Several)
Division of Environmental Resources....(Several)

2. Examinations (Specialized Subjects and Foreign Language)

• Foreign-language exams are given by individual divisions.

The Division of Agrobiology (except the Chair of Applied Molecular Biology) will assess the English-language skills of applicants based on their TOEIC scores from tests taken on or after March 1, 2015. However, applicants may still be required to take a separate written foreign-language (English and Japanese) exam. In such cases, applicants will be notified when their admission tickets are mailed to them. Applicants attending overseas universities who will apply without taking the TOEIC exam for scheduling reasons may be asked to submit TOEIC score documentation after taking the written foreign-language (English and Japanese) exam.

(Applicants of the Chair of Applied Molecular Biology are required to take a written English and Japanese exams.)

- Select two of the specialized subjects listed below for the exam (specialized subject 1 and specialized subject 2).
 - 1) For specialized subject 1, select one of the specialized subjects in your preferred chair that corresponds to the academic advisor you intend to work with on your graduate school studies.
 - 2) For specialized subject 2, select a specialized subject other than what was chosen for specialized subject 1. (Applicants may select subjects from other divisions or subjects common to all divisions.)

 Please note that Applied Microbiology and General Microbiology cannot be selected at the same time.

3) List of exam subjects

Division	Chair	Exam Subject	
		Specialized Subject and Prospective Academic Advisor after	Foreign
		Enrollment	Language
Division of	Chair of	- Agricultural Policy (Prof. Yasutaka Yamamoto or Daisuke	English
Bio-systems	Agricultural and	Sawauchi [Lecturer])	and
Sustainability	Resource	- Farm Business Management (Prof. Shunsuke	Japanese
	Economics	Yanagimura, Assoc. Prof. Kan Higashiyama or Tomomi	
		Komatsu [Lecturer])	
		- Agricultural and Rural Development Economics (Prof.	
		Takumi Kondo or Assoc. Prof. Hideo Aizaki)	
		- Agricultural Cooperative (Prof. Akihiko Sakashita, Assoc.	
		Prof. Park Hong)	
		- Agricultural Marketing (Prof. Hiroshi Sakazume or Yoshiharu	
		Shimizuike [Lecturer])	
		-Agricultural Cooperative ⁴ (Specially Appt. Assoc. Prof.	
		Suguru Masaki or Specially Appt. Asst. Prof. Gao Huichen)	

	Chair of Safety	- Agricultural and Food Process Engineering (Assoc. Prof.	
	and Function of Food	Shigenobu Koseki) - Meat Science (Assoc. Prof. Junichi Wakamatsu)	
	1000	- Muscle Biology(Prof. Takanori Nishimura or Asst. Prof.	
		Takahiro Suzuki)	
		- Biochemistry (Prof. Haruhide Mori)	
		- General Microbiology (Prof. Atsushi Yokota or Satoru Fukiya	
	Chair of Biomass	[Lecturer]) - Woody Plant Biology (Assoc. Prof. Keita Arakawa)	
	Conversion	- Woody Flant Biology (Assoc. Flot. Kena Arakawa) - Bioorganic Chemistry (Assoc. Prof. Yukiharu Fukushi or	
	Conversion	Kosaku Takahashi [Lecturer])	
	Chair of	-Insect Evolutionary Ecology (Prof. Shinichi Akimoto)	
	Sustainable	- Plant Nutritional Ecology (Assoc. Prof. Toshihiro Watanabe	
	Agro-science	or Asst. Prof. Hayato Maruyama) - Remote Sensing (Assoc. Prof. Hiroshi Tani or Assoc. Prof.	
		Wang Xiufeng)	
		- National Land Conservation ³ (Specially Appt. Prof.	
		Nobutomo Osanai or Specially Appt. Asst. Prof. Shinichiro	
		Hayashi)	
		- Crop Breeding Science for Cold Regions ¹ (Affiliate Prof. Yutaka Sato)	
		- Agricultural Meteorology and Agricultural Physics ¹ (Affiliate	
		Prof. Tomoyoshi Hirota)	
		- Plant Nutritional Ecology or Soil Science ¹ (Affiliate Assoc.	
Division of	Chair of Ameliad	Prof. Norikuni Oka)	English
Agrobiology	Chair of Applied Molecular	- Applied Molecular Entomology (Prof. Hisanori Bando, Assoc. Prof. Shinichiro Asano or Asst. Prof. Masanao Sato)	English and
rigiociology	Biology	- Molecular Biology (Assoc. Prof. Hitoshi Onouchi)	Japanese
		- Molecular Enzymology (Prof. Atsuo Kimura, Masayuki	1
	CI : CPI	Okuyama [Lecturer] or Asst. Prof. Takayoshi Tagami)	
	Chair of Plant Breeding Science	- Plant Genetic Resources (Prof. Jun Abe or Tetsuya Yamada [Lecturer])	
	Dieeding Science	- Plant Breeding (Prof. Yuji Kishima or Asst. Prof. Yohei	
		Koide)	
		- Genetic Engineering (Prof. Tomohiko Kubo, Yasuyuki	
		Onodera [Lecturer] or Asst. Prof. Kazuyoshi Kitazaki)	
		- Plant Virology (Prof. Chikara Masuta or Tatsuji Hataya [Lecturer] or Kenji Nakahara [Lecturer])	
		- Cell Technology (Assoc. Prof. Masumi Yamagishi, Assoc.	
		Prof. Akira Kanazawa or Tsuyoshi Inukai [Lecturer])	
		- Molecular Farming ² (Affiliate Prof. Takeshi Matsumura)	
		- Applied Plant Genomics (Asst. Prof. Maria Stefanie Dwiyanti)	
	Chair of Botany	- Crop Science (Junichi Kashiwagi [Lecturer] or Asst. Prof.	
	and Agronomy	Taiken Nakashima)	
		- Horticultural Science (Assoc. Prof. Takashi Suzuki, Yutaka	
		Jitsuyama [Lecturer], or Asst. Prof. Hanako Shimura)	
		- Crop Physiology (Specially Appt. Prof. Kiyoshi Masuda, Assoc. Prof. Kaien Fujino or Asst. Prof. Daisuke Tsugama)	
		- Plant Pathology (Prof. Norio Kondo or Seishi Akino	
		[Lecturer])	
	Chair of Animal	- Animal Breeding and Reproduction (Assoc. Prof. Manabu	
	Production	Kawahara or Asst. Prof. Hanako Bai) - Animal Production System (Prof. Koichiro Ueda)	
		- Animal Nutrition (Prof. Yasuo Kobayashi, Assoc. Prof.	
		Satoshi Koike or Asst. Prof. Yutaka Suzuki)	

Division of	Chair of Food	- Dairy Food Science (Prof. Haruto Kumura, Assoc. Prof. Ken	English
Applied	Science	Kobayashi or Asst. Prof. Toru Hayakawa)	and
Bioscience		- Science of Animal By-Products (Assoc. Prof. Shigeharu	Japanese
		Fukunaga)	
		- Nutritional Biochemistry (Prof. Hiroshi Hara, Assoc. Prof.	
		Satoshi Ishizuka, or Tohru Hira [Lecturer])	
		- Food Biochemistry (Prof. Jun Kawabata or Eisuke Kato	
		[Lecturer])	
	Chair of	- Biochemistry (Asst. Prof. Wataru Saburi)	
	Biomolecular	- General Microbiology (Assoc. Prof. Masaru Wada)	
	Chemistry	- Rhizosphere Control (Assoc. Prof. Tatsuhiro Ezawa)	
		- Bioorganic Chemistry (Prof. Hideyuki Matsuura)	
		- Molecular & Ecological Chemistry (Prof. Yasuyuki	
		Hashidoko, Assoc. Prof. Makoto Hashimoto, or Yasuko	
		Sakihama [Lecturer])	
		- Wood Chemistry and Chemical Biology (Specially Appt.	
		Prof. Makoto Ubukata or Kengo Shigetomi [Lecturer])	
		- Applied Microbiology, General Microbiology, or	
		Biochemistry ² (Affiliate Prof. Tomohiro Tamura, Affiliate	
		Prof. Yoichi Kamagata, Affiliate-Prof. Isao Yumoto, Affiliate	
		Assoc. Prof. Naoki Morita, Affiliate Assoc. Prof. Wataru	
		Kitagawa, Affiliate Assoc. Prof. Yoshitomo Kikuchi or	
D: : : C	Cl. CF 1	Affiliate Assoc. Prof. Soichiro Kato)	F 1: 1
Division of	Chair of Ecology	- Animal Ecology (Prof. Hitoshi Araki or Assoc. Prof. Eisuke	English
Environmental Resources	and Systematics	Hasegawa) Systematic Enterpology (Prof. Masshire Obers or Associ	and
Resources		- Systematic Entomology (Prof. Masahiro Ohara or Assoc. Prof. Kazunori Yoshizawa)	Japanese
		- Plant Systematics (Prof. Hideki Takahashi, Asst. Prof.	
		Takayuki Azuma or Asst. Prof. Koh Nakamura)	
		- Plant Ecology (Prof. Hiroko Fujita)	
		- Museum Materials Management (Asst. Prof. Masaru Kato)	
	Chair of	- Land Improvement and Management (Tadao Yamamoto	-
	Regional	[Lecturer])	
	Environment	- Agricultural Meteorology and Agricultural Physics (Prof.	
	Liiviioiiiieii	Ryoji Sameshima or Keiji Okada [Lecturer])	
		- Soil Physics (Prof. Munehide Ishiguro)	
		- Soil Science (Prof. Ryusuke Hatano, Assoc. Prof. Osamu	
		Nakahara, or Kanta Kuramochi [Lecturer])	
		- Eco-informatics (Prof. Takashi Hirano or Hiroyuki Yamada	
		[Lecturer])	
	Chair of Science	- Silviculture & Forest Ecology (Prof. Takayoshi Koike, Assoc.]
	of Forest	Prof. Masato Shibuya, or Hideyuki Saito [Lecturer])	[
	Resources	- Forest Chemistry (Prof. Yasumitsu Uraki or Keiichi Koda	[
		[Lecturer])	
		- Forest Resource Biology (Assoc. Prof. Yutaka Tamai, or	
		Toshizumi Miyamoto [Lecturer])	
		- Timber Engineering (Prof. Akio Koizumi or Kei Sawata	
		[Lecturer])	
		- Woody Plant Biology (Prof. Yuzou Sano or Asst. Prof. Yusuke	
		Yamagishi)	

Chair of	- Forest Ecosystem Management (Prof. Futoshi Nakamura or	
Integrated	Assoc. Prof. Junko Morimoto)	
Forest-Landscape	- Earth Surface Processes and Land Management (Specially	
Management	Appt. Prof. Tomomi Marutani, Assoc. Prof. Mio Kasai or	
	Asst. Prof. Shin'ya Katsura)	
	- Forest Policy (Prof. Hiroaki Kakizawa or Assoc. Prof. Yasushi	
	Shoji)	
	- Ornamental Horticulture (Prof. Tetsuya Kondo, Assoc. Prof.	
	Tetsuya Aikoh, or Hajime Matsushima [Lecturer])	
	- Landscape Architecture (Prof. Tetsuya Kondo, Assoc. Prof.	
	Tetsuya Aikoh, or Hajime Matsushima [Lecturer])	
Chair of	- Field Informatics (Prof. Noboru Noguchi or Assoc. Prof.	
Bioproduction	Hiroshi Okamoto)	
Engineering	- Crop Production Engineering (Prof. Yoichi Shibata)	
	- Bioresource Engineering (Prof. Kazunori Iwabuchi or Assoc.	
	Prof. Naoto Shimizu)	
Subjects Shared by All Divisions	Organic Chemistry	
(only for specialized subject 2)		

¹Cooperative laboratory with the National Agricultural Research Center for Hokkaido Region, National Agriculture and Food Research Organization

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

3. Evaluation of Applicants

Admission decisions will be made based on an assessment of the applicant's written and oral exams and a review of his/her transcript submitted by the dean of the applicant's previous university or other educational institution. The Division of Agrobiology (except for the Chair of Applied Molecular Biology) will use the applicant's TOEIC scores in place of the written English exam. For applicants who are required to take the English and Japanese exams, these scores will be considered comprehensively with the applicant's exam results.

4. Application Qualifications

- (1) Individuals who have graduated or expect to graduate from a university in March 2017
- (2) Individuals who have been awarded or expect to be awarded a degree pursuant to Article 104, Clause 4, of the School Education Act
- (3) Individuals who have completed 16 years of school education in foreign countries
- (4) Individuals who have completed 16 years of education in a correspondence course subjects provided by foreign educational systems in Japan.
- (5) Individuals who have completed their education at educational institutions in Japan recognized as an equivalent of a university by foreign countries (limited to individuals who have completed 16 years of education by foreign countries) and designated by the Minister of Education, Culture, Sports, Science, and Technology.
- (6) Individuals who have received a degree equivalent to a bachelor's degree from a university or a school in a foreign country (either which has been evaluated by a authority certified by the government of the country concerned or an authority concerned in regard to the overall performance of its education and research activities, or which has been separately designated by the Minister of Education, Sports, Science and Technology as an educational establishment equivalent to the above) upon completion of a program or a course of study requiring 3 or more years (including completion of a correspondence course of a foreign institute taken in Japan, and completion of a course of study designated as per (4) at a foreign educational establishment within the public education system of the country concerned).

²Cooperative laboratory with Hokkaido Center, National Institute of Advanced Industrial Science and Technology (AIST)

³Endowed laboratory by STC (Sabo & Landslide Technical Center)

⁴Endowed laboratory by The Norinchukin Bank

The academic advisors shaded in the table do not recruit any new students this time but the subjects can be selected as the specialized subject 2.

- (7) Individuals who have completed a specialized course at a specialized training college on or after the date determined by the Minister of Education, Culture, Sports, Science and Technology (The course is required to be designated by the Minister, and the course term needs to be four years or more. [Also, the course has to meet other standards established by the Minister.])
- (8) Individuals designated by the Minister of Education, Culture, Sports, Science and Technology (1953 Notice No. 5, Ministry of Education, Science and Culture)
- (9) Individuals who have attended a university for three years or more or individuals who apply to one of the following:
 - Those who have completed 15 years of school education in foreign counties
 - Those who have completed 15 years of education in a correspondence course subjects provided by foreign educational systems in Japan
 - Those who have completed a foreign university's coursework at an educational institution in Japan that is positioned within the school education system of that foreign country as an educational body with a university course (The completion of the coursework needs to be considered equivalent to the completion of 15 years of school education in that foreign country. In addition, the educational institution is required to be designated by Minister of Education, Culture, Sports, Science and Technology.)

Furthermore, all individuals who apply to this qualification need to be deemed by this graduate school to have achieved excellent grades in the prescribed subjects

- (10) Individuals who are recognized by the graduate school as possessing the equivalent or greater academic skill as that of a university graduate based on an individual admission qualification screening and who will be 22 years of age as of March 31, 2017*
 - *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 (9) or (10) are required to undergo a preliminary review of application qualifications, so be sure to submit the following documents between November 24 (Thu.) and December 2 (Fri), 2016.

- ⇒ Individuals Applying Based on Qualification (9): Application form for the preliminary review of application qualifications, transcript, and statement of purpose
- ⇒ Individuals Applying Based on Qualification (10): Application form for the preliminary review of application qualifications, certificate verifying your research history, transcript, and statement of purpose The application form for the preliminary review of application qualifications, certificate verifying your research history, and statement of purpose are prescribed forms and must be requested from the graduate school.

5. Application Materials

Application form	Use the prescribed form.
Application form	Affix a photo of yourself (taken within 3 months of application, 4 cm
Admission ticket	high × 3 cm wide, upper body, facing front, no hats) to the appropriate
Photograph ticket	
	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 examination fee, the post office or bank will
supported students and	validate the payment slip. Be sure this portion is stamped with the
Hokkaido University	payment date. Applications with receipts that are not date-stamped
President's Fellowship	will not be processed.
international students are	(c) Examination fees cannot be paid in cash or by regular money order,
exempt from this fee.	so be sure to complete the bank transfer procedure at a post office or
	bank. You may not make your payment at an ATM.
	(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 paid the fee
Transcript	Issued by the dean of your university, etc.
Certificate of graduation	Issued by the dean of your university, etc.
(expected graduation)	issued by the deal of your aniversity, etc.
Certificate of degree	
conferment (expected	Must be submitted by individuals applying based on qualification (2)
conferment (expected conferment)	
conferment (expected conferment) TOEIC score sheet	Submit a copy of the official score sheet.
conferment (expected conferment) TOEIC score sheet (Applicants to the Division of	Submit a copy of the official score sheet. If the score sheet is not available at the time of application, submit a copy
conferment (expected conferment) TOEIC score sheet (Applicants to the Division of Agrobiology (except the Chair	Submit a copy of the official score sheet.
conferment (expected conferment) TOEIC score sheet (Applicants to the Division of Agrobiology (except the Chair of Applied Molecular Biology)	Submit a copy of the official score sheet. If the score sheet is not available at the time of application, submit a copy of the examination admission card and take the written foreign-language (English) exam. However, in such case, submit a copy of the official score sheet by
conferment (expected conferment) TOEIC score sheet (Applicants to the Division of Agrobiology (except the Chair	Submit a copy of the official score sheet. If the score sheet is not available at the time of application, submit a copy of the examination admission card and take the written foreign-language (English) exam.
conferment (expected conferment) TOEIC score sheet (Applicants to the Division of Agrobiology (except the Chair of Applied Molecular Biology)	Submit a copy of the official score sheet. If the score sheet is not available at the time of application, submit a copy of the examination admission card and take the written foreign-language (English) exam. However, in such case, submit a copy of the official score sheet by
conferment (expected conferment) TOEIC score sheet (Applicants to the Division of Agrobiology (except the Chair of Applied Molecular Biology) only)	Submit a copy of the official score sheet. If the score sheet is not available at the time of application, submit a copy of the examination admission card and take the written foreign-language (English) exam. However, in such case, submit a copy of the official score sheet by January 11 (Wed), 2017.
conferment (expected conferment) TOEIC score sheet (Applicants to the Division of Agrobiology (except the Chair of Applied Molecular Biology) only) Elective exam subject form	Submit a copy of the official score sheet. If the score sheet is not available at the time of application, submit a copy of the examination admission card and take the written foreign-language (English) exam. However, in such case, submit a copy of the official score sheet by January 11 (Wed), 2017. Fill out and submit the prescribed form provided. Write your name, address, and postal code on the envelope provided,
conferment (expected conferment) TOEIC score sheet (Applicants to the Division of Agrobiology (except the Chair of Applied Molecular Biology) only)	Submit a copy of the official score sheet. If the score sheet is not available at the time of application, submit a copy of the examination admission card and take the written foreign-language (English) exam. However, in such case, submit a copy of the official score sheet by January 11 (Wed), 2017. Fill out and submit the prescribed form provided. Write your name, address, and postal code on the envelope provided, affix ¥362 worth of postage stamps to it, and submit it. Please do not
conferment (expected conferment) TOEIC score sheet (Applicants to the Division of Agrobiology (except the Chair of Applied Molecular Biology) only) Elective exam subject form	Submit a copy of the official score sheet. If the score sheet is not available at the time of application, submit a copy of the examination admission card and take the written foreign-language (English) exam. However, in such case, submit a copy of the official score sheet by January 11 (Wed), 2017. Fill out and submit the prescribed form provided. Write your name, address, and postal code on the envelope provided,

Notes: 1. Individuals applying based on qualification (9) or (10) will receive separate instructions about application materials when they receive the results of their preliminary review.

- 2. International students applying based on qualifications (3) through (6) 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 26 (Mon), 2016 through January 6 (Fri), 2017 (except for December 29th (Thu.) to January 3rd (Tue.))

Hours: 9:00 to 17:00

If mailing your application, mark the outside of the envelope "Graduate School 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, Agricultural Studies Administration Office, Hokkaido University

7. Examination Dates and Place

Date	Time	Exam Categ	ory	Place
February 9 (Thu)	10:40 to 12:00 13:00 to 15:30	Foreign language Specialized subjects	Conducted by division (In the Division of Agrobiology (except the Chair of Applied	
February 10 (Fri)	•13:00 •15:00 (only for applicants to the Division of Bio-systems Sustainability)	Oral interview	Molecular Biology), only those applicants who have been specifically notified and those attending overseas universities who are unable to take the TOEIC exam for scheduling reasons will have to take the written foreign-language [English and Japanese] exam.)	Graduate School of Agriculture, 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 (Thu), 2017. 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
- (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 of Application Form

For the "Academic Background and Work History" section of the application form, 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 organizations associated with the university: the Hokkaido University Athletic Union. The information will not be used for any purpose other than those mentioned above.

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 2016

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

Release of Examination Results

In response to student requests, the Graduate School of Agriculture will release results attained by students who fail the examination for 2017 Master's Course (2^{nd} – Term Exam) as described below.

Release method	In writing based on postal requests
Release details	Examination results
	Overall points total
	Points awarded in each subject
	Results of interview examination
Individuals eligible to	Examinees (Students failing to take any of the examination subjects may not request the
make requests	release of results).
Identity confirmation	Based on examination admission tickets
Request method	By post (to include a Kaku-2 size (24 x 33.2 cm) self-addressed return envelope and the
	student's examination admission ticket)
	*The return envelope must bear the student's name, address, postal code and a 560-yen
	stamp (which also covers the registration fee).
	*"Request for Master's Course (2 nd – Term Exam) examination results" should be written in
	red on the front bottom left of the envelope.
Request period	April 3 (Mon) – April 14 (Fri), 2017 (postmark effective)
Address for requests	Student Affairs Sections, Agricultural Studies Administration Office, Hokkaido University
	Kita 9 Nishi 9, Kita-ku, Sapporo, 060-8589, Japan

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

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, Agricultural Studies Administration Office

(2) Submission of Documents

Submit the following documents to the Students Affairs Section, Agricultural Studies Administration Office:

- (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, Agricultural Studies Administration Office.

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 CO₂ 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 16, 2016

Division of Bio-systems Sustainability

Division of Bio-system	
Chair of A prioutural	Academic Advisor in Charge (Field of Specialization [Name of Unit])
Chair of Agricultural and Resource	Professor:
Economics	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)
	Kan Higashiyama (Farm Business Management)
	Kan Higasinyama (Lami Business Management)
	Specially Appt. Associate Professor:
	Suguru Masaki ⁴ (Cooperative's Raison D'être)
	Lecturer:
	Daisuke Sawauchi (Agricultural and Environmental Policy)
	Yoshiharu Shimizuike (Food and Agricultural Marketing)
	Tomomi Komatsu (Farm Business Management)
	Specially Appt. Assistant Professor:
	Gao Huichen ⁴ (Cooperative's Raison D'être)
Chair of Safety and Function of Food	Professor:
runction of rood	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 ¹ (Meat Science)
	Lecturer:
	Satoru Fukiya (Gastrointestinal Microbiology)
	Assistant Punfassan
	Assistant Professor: Takahiro Suzuki (Muscle Cell Molecular Science)
Chair of Biomass	Associate Professor:
Conversion	Keita Arakawa (Plant Resource Invention)
Conversion	Yukiharu Fukushi (Chemical Biology)
	Tukinara Lukusin (Chemicai Diology)
	Lecturer:
	Kosaku Takahashi (Chemical Biology)
Chair of Sustainable	Professor:
Agro-science	Shinichi Akimoto (Insect Evolutionary Ecology)
	Specially Appt. Professor:
	Nobutomo Osanai ⁴ (National Land Conservation)
	Yutaka Sato ⁴ (National Land Conservation)
	Affiliate Professor
	Affiliate Professor:

Tomoyoshi Hirota ² (Regional Agricultural Bioscience)
Associate Professor:
Hiroshi Tani (Bio-environmental Informatics)
Wang Xiufeng (Bio-environmental Informatics)
Toshihiro Watanabe (Plant Nutritional Ecology)
Affiliate Associate Professor:
Norikuni Oka ² (Regional Agricultural Bioscience)
Assistant Professor:
Hayato Maruyama (Plant Nutritional Ecology)
Specially Appt. Assistant Professor:
Shinichiro Hayashi ⁴ (National Land Conservation)

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:	
Molecular Biology Hisanori Bando (Applied Molecular Entomology) Atsuo Kimura (Molecular Enzymology) Associate Professor:	
Atsuo Kimura (Molecular Enzymology) Associate Professor:	
Associate Professor:	
Shinichiro Asano (Applied Molecular Entomology)	
Hitoshi Onouchi (Molecular Biology)	
Lecturer:	
Masayuki Okuyama (Molecular Enzymology)	
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 ² (Molecular Farming)	
Associate Professor:	
Masumi Yamagishi (Cell Biology and Manipulation)	
Akira Kanazawa (Cell Biology and Manipulation)	
Lecturer:	
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)	

Specially Appt. Professor:
Kiyoshi Masuda☆ (Crop Physiology)
Professor:
Norio Kondo ¹ (Plant Pathology)
Associate Professor:
Kaien Fujino (Crop Physiology)
Takashi Suzuki (Horticultural Science)
Lastraga
Lecturer:
Junichi Kashiwagi (Crop Science)
Yutaka Jitsuyama (Horticultural Science) Seishi Akino (Plant Pathology)
Seisili Akino (Piant Paulology)
Assistant Professor:
Hanako Shimura (Horticultural Science)
Taiken Nakashima (Crop Science)
Daisuke Tsugama (Crop Physiology)
Professor:
Yasuo Kobayashi (Animal Nutrition)
Koichiro Ueda (Animal Production System)
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

Division of Applied Bioscience		
Chair	Academic Advisor in Charge (Field of Specialization [Name of Unit])	
Chair of Food Science	Professor:	
	Haruto Kumura (Applied Food Science)	
	Hiroshi Hara (Food Science for Health)	
	Jun Kawabata (Food Biochemistry)	
	Associate Professor:	
	Shigeharu Fukunaga (Animal By-product Science)	
	Satoshi Ishizuka (Nutritional Biochemistry)	
	Ken Kobayashi (Functional Histocytology)	
	Lecturer:	
	Tohru Hira (Food Science for Health)	
	Eisuke Kato (Food Biochemistry)	
	Eistre Rato (Food Diochemistry)	
	Assistant Professor:	
	Toru Hayakawa (Applied Food Science)	
Chair of Biomolecular	Specially Appt. Professor:	
Chemistry	Makoto Ubukata☆ (Wood Chemistry & Chemical Biology)	
	Professor:	
	Yasuyuki Hashidoko (Molecular & Ecological Chemistry)	
	Hideyuki Matsuura (Natural Products Chemistry)	

Affiliate Professor: Tomohiro Tamura² (Molecular Environmental Microbiology) Yoichi Kamagata² (Molecular Environmental Microbiology) Isao Yumoto² (Molecular Environmental Microbiology) Associate Professor: Masaru Wada (Microbial Physiology) Tatsuhiro Ezawa (Rhizosphere Control) Makoto Hashimoto (Molecular & Ecological Chemistry) Affiliate Associate Professor: Naoki Morita² (Molecular Environmental Microbiology) Wataru Kitagawa² (Molecular Environmental Microbiology) Yoshitomo Kikuchi² (Molecular Environmental Microbiology) Soichiro Kato² (Molecular Environmental Microbiology) Lecturer: Yasuko Sakihama (Molecular & Ecological Chemistry) Kengo Shigetomi (Wood Chemistry & Chemical Biology) Assistant Professor: Wataru Saburi (Biochemistry)

Division of Environmental Resources

Division of Environmental Resources			
Chair	Academic Advisor in Charge (Field of Specialization [Name of Unit])		
Chair of Ecology and	Professor:		
Systematics	Masahiro Ohara ³ (Entomology)		
	Hideki Takahashi ³ (Plant Systematics)		
	Hitoshi Araki (Animal Ecology and Evolution)		
	Hiroko Fujita ¹ (Plant Ecology and Systematics)		
	Associate Professor:		
	Eisuke Hasegawa (Animal Ecology)		
	Kazunori Yoshizawa (Phylogenetic Systematics)		
	Assistant Professor:		
	Takayuki Azuma ¹ (Plant Ecology and Systematics)		
	Koh Nakamura ¹ (Plant Ecology and Systematics)		
	Masaru Kato ¹ (Museology and Museum Materials Management)		
Chair of Regional	Professor:		
Environment	Ryoji Sameshima (Agricultural and Environmental Physics)		
Liiviioiiiieit	Munehide Ishiguro (Soil Physics)		
	Ryusuke Hatano (Soil Science)		
	Takashi Hirano (Eco-informatics)		
	Associate Professor:		
	Osamu Nakahara (Soil Science)		
	Lecturer:		
	Tadao Yamamoto (Water and Soil Environmental Science)		
	Keiji Okada (Agricultural and Environmental Physics)		
	Kanta Kuramochi (Soil Science)		
	Hiroyuki Yamada (Eco-informatics)		
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Chair of Science of	Professor:
Forest Resources	
Polest Resources	Takayoshi Koike (Silviculture and Forest Ecology)
	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)
	Tutaka Tamai (Folest 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:
	Yusuke Yamagishi (Woody Plant Biology)
Chair of Integrated	Specially Appt. Professor
Forest-Landscape	Tomomi Marutani☆ (Earth Surface Processes and Land Management)
Management	
	Professor:
	Futoshi Nakamura (Forest Ecosystem Management)
	Hiroaki Kakizawa (Forest Policy)
	Tetsuya Kondo (Environmental Horticulture and Landscape Architecture)
	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)
	T .
	Lecturer:
	Hajime Matsushima (Environmental Horticulture and Landscape Architecture)
	Assistant Professor:
	Shin'ya Katsura (Earth Surface Processes and Land Management)
Chair of Bioproduction	Professor:
Engineering	Noboru Noguchi (Vehicle Robotics)
	Yoichi Shibata (Crop Production Engineering)
	, ,
	Kazunori Iwabuchi (Agricultural Circulative Engineering)
	Associate Professor:
	Hiroshi Okamoto (Vehicle Robotics)
	Naoto Shimizu ¹ (Agricultural Circulative Engineering)
Notes:	1 moto diffiniza (rigirontara circulative Engineering)

- 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

Those with \approx will be resigned (retired) as of March 31, 2017.

Please note that the academic advisors with \(\sqrt{} \) do not recruit any new students.