

2011
Graduate School of Science
Hokkaido University
Course for Master's Degree (First Term for Doctoral Program)

The Winter Exam. 2011

Student Application Requirements

December 2010

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>Handling of Personal Data

(1) With regard to personal data possessed by this university, laws including the Law Concerning the Protection of Personal Information by Independent Administrative Institutions are observed, and every possible measure is taken to protect it based on the Personal Data Management Rules of Hokkaido University.

(2) Personal data provided to this university for application, such as name and address, are used for ① the selection of students, ② the announcement of successful applicants, ③ admission procedures, ④ research into selection methods of students and ⑤ services related to the aforementioned.

(3) With regard to the use of personal data for various services, some of the services may be entrusted by this university to outside operators (hereinafter referred to as “entrusted operators”). In such cases, all or part of the personal data provided to this university may be provided to the operators to the extent necessary to implement the entrusted services.

(4) The personal data of successful applicants provided to this university for application is used after admission for ① educational purposes (student registration, academic guidance, etc.), ② student support (health management, scholarship application, etc.) and ③ services related to tuition.

(5) Of the personal data of (4), names and addresses may be used for contact by the following organizations related to Hokkaido University: ① the Hokkaido University Frontier Foundation, ② the Hokkaido University Athletic Union, ③ the Clark Memorial Foundation at Hokkaido University and ④ the Alumni Association of the School of Science, Hokkaido University.

December 2010
Graduate School of Science,
Hokkaido University

>Admission Requirements for the Graduate School of Science

Applicants must have completed core subjects in the fields of Mathematics, Physics, Chemistry, Biological Sciences, Earth Science, etc. and related specialized subjects. They must also have the ability, character and aptitude to study independently and to rigorously investigate the principles of nature.

I. General Selection Procedures

>>1. Number of Students to be Accepted

Departments	Numbers	Website's URL
Mathematics	7	http://www.math.sci.hokudai.ac.jp/en/
Condensed Matter Physics	A few students	http://phys.sci.hokudai.ac.jp/quantum/index-e.html
Cosmosciences	A few students	http://www.ep.sci.hokudai.ac.jp/~cosmo/index-e.htm
Natural History Sciences	A few students	(Earth and Planetary Dynamics) http://www.sci.hokudai.ac.jp/grp/dyna-admin/geodynamics/index-e.html (Earth and Planetary System Science) http://www.sci.hokudai.ac.jp/grp/sys-web/sys-web/index_en.html (Seismology and Volcanology) http://www.sci.hokudai.ac.jp/isv/english/ (Biodiversity) http://www.sci.hokudai.ac.jp/biodiversity/English.html (Science Communication) http://museum-sv.museum.hokudai.ac.jp/activity/education/scicom/English.html

(Notes)

- ① For details about the Departments, please inquire to the Department concerned.
- ② Applicants can concurrently apply for the Department of Condensed Matter Physics and the Department of Cosmosciences. In such a case, please fill in both names of the Departments in the major study Department of the Application Form.
- ③ Those who intend to apply for the Department of Natural History Sciences should choose either Earth and Planetary Dynamics/Earth and Planetary System Science/Seismology and Volcanology/Biodiversity or Science Communication, and indicate with a tick in the parentheses below the major study division of the Application Form.

>>2. Eligibility for Application

- (1) Those who have graduated from a Japanese college (including those who expect to graduate prior to admission to the Graduate School).
- (2) Those who have received undergraduate degrees in conformity with Article 104 Clause 4 of the School Education Law (1947, Law No. 26) (including those who are expected to receive their degree prior to admission to the Graduate School).
- (3) Those who have completed a 16-year overseas school education course (including those who are expected to complete the course prior to admission to the Graduate School).
- (4) Those who have completed a 16-year overseas school education course in Japan through a correspondence course offered by an overseas educational institution (including those who are

expected to complete the course prior to admission to the Graduate School).

(5) Those who have completed a school education course at an institution in Japan that is recognized by the educational system of an overseas country as having university courses (limited to those who have completed 16 years of school education in other countries) and is designated by the Ministry of Education, Culture, Sports, Science and Technology (including those who are expected to complete such course prior to admission to the Graduate School).

(6) Those who have completed a specialized course at a vocational school (limited to courses that have a duration of four years or more and satisfy the conditions set by the Ministry of Education, Culture, Sports, Science and Technology) designated by the Ministry after the date set by the Ministry (including those who are expected to complete such course prior to admission to the Graduate School).

(7) Those who were designated by the Ministry of Education, Culture, Sports, Science and Technology (July 2, 1953 Ministry of Education Notification No. 5).

(8) Those who have attended college for three or more years or have completed a 15-year overseas school education course, and those approved by the Graduate School to have mastered the prescribed units with excellent scores.

(9) Those approved by the Graduate School to have academic aptitude equal to or greater than those of a college graduate as verified by the individual admission qualification screening and who are 22 years of age or over.

>>3. Preliminary Evaluation of Eligibility for Application

For those who have attended college for three or more years or have completed 15 years of overseas school education as stipulated in (8) of Item 2. “Eligibility for Application” and those who meet the requirements stipulated in (9) of Item 2. “Eligibility for Application,”

preliminary screening is carried out to ascertain eligibility prior to the acceptance of the application form. Such applicants must present the items outlined in “5. Materials Necessary for Application” during the period from December 14 (Tuesday) through December 20 (Monday), 2010, together with a self-addressed envelope (regular size) affixed with an 80-yen stamp for delivery of the results of the preliminary screening for eligibility.

Examination fees should not be sent together with the application for preliminary evaluation.

The said fees must be paid according to the note below. (Applications will be accepted from 9:00 a.m. to 4:00 p.m., except on Sat., Sun. and national holidays.)

(Note) Results of the preliminary screening for eligibility will be sent out by approximately January 6 (Thursday), 2011, to applicants. If eligibility for application is approved, those who wish to be admitted must pay the examination fee by January 13 (Thursday), 2011, as stipulated in “7. Examination Fee,” to the bank account or post office account designated by this university using transfer slips enclosed within the period designated in “4. Acceptance of Applications,” and submit the payment certificate. Unless applicants submit the payment certificate within the prescribed period, their application forms will not be accepted.

However, Japanese Government (MEXT) scholarship students are not required to pay the examination fee.

>>4. Acceptance of Applications

From January 7 (Friday) through January 13 (Thursday), 2011

Applicants in the following categories as stipulated in “2. Eligibility for Application” must submit their application during the aforementioned period by presenting “5. Materials Necessary for Application” and the payment certificate as prescribed in “7. Examination Fee”: (1) College graduates; (2) those who have received undergraduate degrees from a degree awarding

organization; (3) those who have completed a 16-year overseas school education course; (4) those who have completed a 16-year overseas education course through a correspondence course; (5) those who have completed a designated overseas education course recognized as being equivalent to a college education course in the relevant overseas country; (6) those who have completed a specialized course at a designated vocational school; and (7) those who have been designated by the Ministry of Education, Culture, Sports, Science and Technology

If mailed, the application must be received by the office within the prescribed period. (Application forms will be accepted from 9:00 a.m. until 4:00 p.m., Mon. to Fri., except on Sat., Sun. and national holidays.)

>>5. Materials Necessary for Application

Applicants in the categories of (1) college graduates; (2) those who have received undergraduate degrees from a degree awarding organization; (3) those who have completed a 16-year overseas school education course; (4) those who have completed a 16-year overseas education course through a correspondence course; (5) those who have completed a designated overseas education course recognized as being equivalent to a college education course in the relevant overseas country; (6) those who have completed a specialized course at a designated vocational school; and (7) those who have been designated by the Ministry of Education, Culture, Sports, Science and Technology as stipulated in “2. Eligibility for Application” must submit the following documents:

① Application Form, Curriculum Vitae, Admission Ticket for the examination and Photo ID Form (prescribed form).

Note 1: Anyone who intends to enroll while in employment should attach a Letter of Agreement (arbitrary form) from a person who has authority over personnel affairs and other matters at the applicant's place of employment.

Note 2: Applicants who have completed an overseas school education course or who have completed an overseas correspondence course should attach Curriculum Vitae B (prescribed form).

② Academic transcripts issued by the president of the institution (faculty or school) from which the applicant graduated (Not required of applicants from the Faculty of Science, Hokkaido University)

③ Graduation Certificate or Certificate of Expected Graduation (not required of applicants from the Faculty of Science, Hokkaido University); or Certificate of (Expected) Bachelor's Degree issued by the organization offering the degree

④ Other common documents (see below "Common Documents for Application" *A and *B, and other documents to be presented based on the departments applied for)

Applicants who have attended college for three or more years or have completed a 15-year overseas school education course as stipulated in (8) of “2. Eligibility for Application” must submit the following application documents:

(Note) The following documents must be submitted within the period of preliminary screening for eligibility as stipulated in “3. Preliminary Evaluation of Eligibility for Application”:

① Application Form, Curriculum Vitae, Admission Ticket for the examination and Photo ID Form (prescribed form).

Note: Applicants who have completed an overseas school education course or who have completed an overseas correspondence course should attach Curriculum Vitae B (prescribed form).

② Academic transcripts issued by the president of the institution (faculty or school) from which the applicant graduated (Not required of applicants from the Faculty of Science, Hokkaido University)

- ③ Letters of recommendation from academic members of the applicant's faculty (arbitrary form)
- ④ Other common documents (see below "Common Documents for Application" *A and *B, and other documents to be presented based on the departments applied for)

Applicants approved by the individual admission qualification screening as stipulated in (9) of "2. Eligibility for Application"

(Note) The following documents must be submitted within the period of preliminary screening for eligibility as stipulated in "3. Preliminary Evaluation of Eligibility for Application":

- ① Application Form, Curriculum Vitae, Admission Ticket for the examination and Photo ID Form (prescribed form).

Note 1: Anyone who intends to enroll while in employment should attach a Letter of Agreement (arbitrary form) from a person who has authority over personnel affairs and other matters at the applicant's place of employment.

Note 2: Applicants who have completed an overseas school education course or who have completed an overseas correspondence course should attach Curriculum Vitae B (prescribed form).

- ② Academic transcripts issued by the last school or other institutions attended
- ③ Graduation (Completion) Certificate issued by the most recent school or other institutions attended
- ④ Documents certifying that applicant has academic skills equal to or greater than those of a college graduate, e.g. documents describing experiences in international activities, business experience, foreign language proficiency, etc.; research papers; patent gazettes; various qualification certificates and letters of recommendation from academic members of the applicant's faculty (arbitrary form)
- ⑤ Other common documents (see below "Common Documents for Application" *A and *B, and other documents to be presented based on the departments applied for)

Common Documents for Application

A. SAE to receive the examination admission ticket

Note: Write self-addressed (postal code, address and name) envelop, and stamp (350yen) on it.

In case of a change in address after submitting an application due to relocation or other reasons, applicants must inform the Educational Affairs Section, Graduate School of Science/Life Science, Hokkaido University.

B. Address stickers for the notification of admission decisions on admission and communication purposes

Note: The applicant's postal code, name and address should be written on the stickers. In case of a change in address after submitting an application due to relocation or other reasons, applicants must inform the Educational Affairs Section, Graduate School of Science/Life Science, Hokkaido University.

Documents to be Submitted According to Majors Applied for

Departments		Documents to be submitted	Remarks
Mathematics		1. Reasons for application and questionnaire on applicant's preference for examination site (prescribed forms) 2. Mathematics report	Document 1 should give the reasons for applying to this department. An examination will also be held in Tokyo. Please indicate the examination place you prefer with a circle in the prescribed form by referring to the attached "Examination Place for the Division of Mathematics." Document 2 should give a summary in 10 pages or less (A4 or Letter size) of the fields you wish to study after admission, and a theorem or a theory you are particularly interested in, fully understand and can elaborate on. Interviewers will ask questions based on the content of this report. You must also outline the mathematics report on the prescribed form.
Condensed Matter Physics		Questionnaire on applicant's preference for laboratories or fields (prescribed form)	Please fill in your first, second and third choices of laboratories selected from "A List of Supervisors and Research Fields."
Cosmosciences		1. Questionnaire on applicant's preference for laboratories or fields (prescribed form) 2. Cosmosciences report	Please fill in Document 1 your first, second and third choices of laboratories selected from "A List of Supervisors and Research Fields." Document 2 should give a summary in 2 pages or less (A4 or Letter size) of your graduation research or cosmoscience-related theme you are interested in.
Natural History Sciences	Earth and Planetary Dynamics/Earth and Planetary System Science/Seis mology and Volcanology	Questionnaire on applicant's preference for laboratories or fields (prescribed form)	Please fill in your first and second choices of groups, laboratories or centers selected from "A List of Supervisors and Research Fields." If you do not have the second choice, please leave the section blank. Choose two specialized subjects among five (mathematics, physics, chemistry, earth science I and earth science II), and circle them. No change is permitted after the documents are accepted.
	Biodiversity	Questionnaire on applicant's preference for supervisors (prescribed form)	Please fill in the name of your selected supervisor in the questionnaire.
	Science Communication	1. Questionnaire on applicant's preference for laboratories or fields (prescribed form) 2. Reasons for application (prescribed form)	

* Only the prescribed forms for concerned Departments will be sent to applicants.

*** The Department of Condensed Matter Physics and the Department of Cosmo sciences can concurrently be applied for.**

(In such a case, please submit the questionnaires provided by the two Departments.)

Documents that can be arbitrarily submitted based on the departments applied for

* Letter of recommendation (arbitrary form in A4 or Letter size) issued by the president of the most recent school attended or relevant faculty members: **only for applicants who major in Mathematics, Condensed matter physics and Cosmo sciences.**

>>6. Address for the Submission of Application Forms

Educational Affairs Section,
Graduate School of Science/Life Science,
Hokkaido University,
North 10, West 8, Kita-ku, Sapporo 060-0810 JAPAN

*If mailed, please use **registered mail** and write “**Application for Admission to Graduate School**” on the envelope in red ink.

>>7. Examination Fee 30,000 yen

A. Japanese Government (MEXT) scholarship students, including those who will be MEXT students on admission to the Graduate School, are not required to pay the examination fee. However, MEXT scholarship research students who will be privately funded on admission to the Graduate School, will need to pay the examination fee.

*MEXT scholarship students recommended by universities other than Hokkaido University are required to submit a copy of the scholarship notification form.

B. Remit the examination fee to the bank account or post office account designated by this university using the attached examination fee transfer form specifically prepared for this purpose, which is enclosed in the Prescribed Forms for the Graduate School, and attach the payment certificate (E) to the appropriate section of the Application Form.

Non-residents of Japan who intend to remit the examination fee are kindly required to consult the supervisors you wish to receive guidance from.

C. The examination fee is not refundable except the following cases:

- (1) In case of you have not submitted or have been rejected application although the examination fee is remitted.
- (2) In case of you paid examination fee twice by mistake.

>>8. Selection Criteria

Successful candidates will be selected after ample consideration of examination results (written and oral examinations), academic transcripts, etc.

>>9. Examinations (written and oral exams) in Academic Subjects

February 3 (Thursday) – February 4 (Friday), 2011 (Sapporo site)

Date	February 3 (Thursday)		February 4 (Friday)	
Mathematics	Oral examination (9:00-)	Oral examination (13:00-)		
Condensed Matter Physics	Oral examination (9:00-)	Oral examination (13:00-)		
Cosmo sciences	Oral examination (9:00-)	Oral examination (13:00-)		

Natural History Sciences	Earth and Planetary Dynamics/ Earth and Planetary System Science/ Seismology and Volcanology	English (9:30-11:30)		Specialized subjects (13:00-16:00)	Oral examination (9:00-)	Oral examination (13:00-)
	Biodiversity	English (9:00-12:00)		Specialized subjects (13:00-16:00)	Oral examination (9:00-)	
	Science Communication	English (9:00-11:00)	Essay (11:10-12:40)	Oral examination (14:00-)		

(Note)

A. English examinations are conducted as follows:

Department of Natural History Sciences

- Applicants for the Divisions of Earth and Planetary Dynamics, Earth and Planetary System Science, and Seismology and Volcanology must sit English-Japanese and Japanese-English translation examinations. Applicants are not permitted to use dictionaries.

- Applicants for the Division of Biodiversity must sit English-Japanese and Japanese-English translation examinations. Applicants are not permitted to use dictionaries.

- Applicants for the Division of Science Communication must sit English-Japanese and Japanese-English translation examinations. Applicants are permitted to use English-Japanese dictionaries (excluding electronic devices).

B. Those applying for both Condensed Matter Physics and CosmoSciences are required to take an oral examination in specialized subjects and in English.

C. For the specialized subjects for the Divisions of Earth and Planetary Dynamics, Earth and Planetary System Science, and Seismology and Volcanology of the Department of Natural History Sciences, the specialized subjects are mathematics, physics (including optional questions on earth and planetary physics), chemistry (including optional questions on earth and planetary chemistry), earth science I (earth history, tectonics and sedimentology) and earth science II (lithology, mineralogy and resource geology). Applicants must choose and answer two of these five subjects. No change is permitted after the documents are accepted. Applicants may not be able to take oral examinations depending on the result of written examinations.

D. For the specialized subjects of Biodiversity, keywords indicate the range of setting questions are mailed with admission Ticket for the examination. These keywords are also announced at the Website of the department. [<http://www.sci.hokudai.ac.jp/biodiversity/English.html>]

E. In the essay task for the Division of Science Communication of the Department of Natural History Sciences, applicants will choose two questions among the eight listed themes from designated books on the Website of the department. [<http://sc.sci.hokudai.ac.jp/examination/thesis>]

F. The Department of Mathematics may take examinations at the Tokyo site [Date of Examination: February 6 (Sunday), 2011] (please visit the Website of the Department [<http://www.math.sci.hokudai.ac.jp/en>] for details.) or refer to “Examination Site for the Department of Mathematics” attached to the documents for the Department.

>>10. Announcement of Acceptance

Successful applicants will be posted in the hall on the first floor of the Lower Level Building No. 2 Graduate School of Science and the School of Science, Hokkaido University at **about 16:30 on March 3 (Thursday), 2011**, and all examination applicants will be notified of their examination result (pass or fail).

>>11. Admission Procedure and Expenses

Successful applicants will be notified of admission procedures together with a letter of acceptance.

Admission fee: 282,000 yen

Tuition: 267,900 yen [First half of the annual cost of 535,800 yen]

* If the tuition is revised while successful applicants are attending school, the new tuition will be applied from the time of revision.

>>12. Some Important Instructions

(1) Place the Admission Ticket for the Examination on the desk when you sit an examination.

(2) Changes of the Department applied for by candidate are not accepted for any reason.

>>13. Long-Term Enrollment Course

Those who have difficulty in finishing master's courses within 2 years due to their occupation (including caregiving, childcare, etc.) and hope to finish their master's course within 3 or 4 years are kindly requested to consult with the supervisors from whom they wish to receive guidance.

>>14. Additional Information

The Admission Ticket for the Examination will be sent to applicants, whose application forms have been accepted, **by around January 21 (Friday), 2011.**

* If you wish to receive the Application Guidebook by mail, please send a request enclosing an A4-sized self-addressed envelope.

Please write "**Request for Application Guidebook for Master's Course**" on the envelope in red ink, enclose a note indicating the selected Department (and the selected Division in the case of the Department of Natural History Sciences) and your telephone number, and send it to the Education Affairs Section, Graduate School of Science/Life Science, Hokkaido University.

◎**For further information and inquiries regarding the application procedures, please contact:**

The Educational Affairs Section,

Graduate School of Science/Life Science, Hokkaido University

North 10, West 8, Kita-ku, Sapporo 060-0810

Tel: (011) 706-3677

The Graduate School of Science, Hokkaido University

URL: <http://www.sci.hokudai.ac.jp/english/index.html>

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II. Special Selection Procedures for Overseas Students

>>1. Number of Students to be Accepted

Departments	Numbers
Mathematics	A few students
Condensed Matter Physics	
Cosmosciences	
Natural History Sciences	

>>2. Eligibility for Application

Applicants must fulfill all of the following requirements:

- (1) Those who have completed 16 years of education at overseas institutions (including those who are expected to complete courses prior to admission to the Graduate School)
- (2) Those who cannot come to Japan to take the entrance examination
- (3) Those who has been approved as his/her competence and scholastic performance by a recommendation letter from an academic in the Graduate School of Science who has agreed to be his/her supervisor after enrollment (hereinafter, an accepting academic).

* An applicant must contact his/her accepting academic in advance.

* Those who wish to enroll in October 2011 must indicate by checking the “Admission Timing” division on the Application Form.

>>3. Acceptance of Applications

From January 7 (Friday) through January 13 (Thursday), 2011

*Application forms will be accepted from 9:00 a.m. until 4:00 p.m., Mon. to Fri. Applications are not accepted on Sat., Sun. and national holidays. If mailed, the application must be received by the office within the prescribed period.

>>4. Materials Necessary for Application

- ① Application Form and Curriculum Vitae (prescribed form)
- ② Curriculum Vitae B (prescribed form)
- ③ Recommendation Letter from the accepting academic
- ④ Academic transcripts issued by the last institution from which the applicant graduated

*A recommendation letter from the supervisor at the institution may be attached for reference.

- ⑤ Graduation Certificate or Certificate of Expected Graduation
- ⑥ Other Documents that the accepting academic requests

>>5. Address for the Submission of Application Forms

Educational Affairs Section

Graduate School of Science/Life Science

Hokkaido University

North 10, West 8, Kita-ku, Sapporo 060-0810 JAPAN

>>6. Examination Fee 30,000 yen

① Japanese Government (MEXT) scholarship students, including those who will be MEXT students on admission to the Graduate School, are not required to pay the examination fee.

However, MEXT scholarship research students who will be privately funded on admission to the Graduate School will need to pay the examination fee.

*MEXT scholarship students recommended by universities other than Hokkaido University are required to submit a copy of the scholarship notification form.

② Remit the examination fee to the bank account or post office account designated by this university using the examination fee transfer form enclosed in the Prescribed Forms for Graduate School of Science, and attach the payment certificate (E) to the appropriate section of the Application Form.

③ The examination fee is not refundable except the following cases:

(1) In case of you have not submitted or have been rejected application although the examination fee is remitted.

(2) In case of you paid examination fee twice by mistake.

*Please consult with your accepting academic regarding how to pay the entrance examination fee.

>>7. Selection Criteria

Successful candidates will be selected based on the combined results of the evaluation of their Application Form, Curriculum Vitae, transcripts from their last institution, recommendation letters from the accepting academics , etc.

>>8. Announcement of Acceptance

Successful applicants will be posted in the hall on the first floor of the Lower Level Building No. 2 Graduate School of Science and the School of Science, Hokkaido University at **about 16:30 on March 3 (Thursday), 2011.**

>>9. Admission Procedure and Expenses

Successful applicants will be notified of admission procedures together with their letter of acceptance.

Admission fee: 282,000 yen

Tuition: 267,900 yen [the first half of the annual fee of 535,800 yen]

* If tuition fees are revised while successful applicants are attending school, the new amounts will be applied from the time of revision.

>>10. Long-Term Enrollment Course

Those who have difficulty in finishing master's courses within 2 years due to their occupation (including caregiving, childcare, etc.) and hope to finish their master's course within 3 or 4 years are kindly requested to consult with the supervisors from whom they wish to receive guidance.

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