

Academic Year 2020

**Graduate School of Science
Hokkaido University**

Doctoral Course

(Latter Period of Doctoral Program)

First Selection of 2020

**Application Guidelines for
Entrance Examination**

For enrollment October 2019 or April 2020

(Admission for International Students Residing in Japan)

June 2019

Notes

Applicants for the Department of Natural History Sciences must submit a certificate for English proficiency (either TOEFL or TOEIC). The criteria for an acceptable score differ between each division. Only an original score sheet will be accepted (photocopies are not accepted). See pages 4 and 6 for details.

Each applicant is responsible for checking the test dates for TOEFL or TOEIC in consideration of the application period.

Personal Information Management by Hokkaido University

- (1) In handling personal information obtained from applicants, Hokkaido University makes every effort to protect this information through appropriate management based on the “National University Corporation Hokkaido University Personal Information Management Rules” and the relevant laws and ordinances such as the “Protection Law for Private Information Held by Independent Administrative Corporations”.
- (2) Personal information such as name, address, etc., provided by the applicant to the university in the process of applying for admission will be used only for: 1) assessment of applicants; 2) announcement of results; 3) enrollment procedures; 4) surveys and research on enrollee selection methods; and 5) business operations pertaining to 1)–4).
- (3) Companies commissioned by the University to engage in the relevant operations (hereafter called “commissioned companies”) may handle personal data. Part or all of the personal information submitted to the University by the applicant will be provided to the commissioned companies, to the extent necessary for them to carry out their duties.
- (4) After successful applicants are enrolled, personal information they provided on their application forms will be used for: 1) educational affairs (such as registration, educational guidance, etc.); 2) student support services (such as health administration, fellowship applications, etc.); 3) career support; and 4) business operations related to their tuition fees and other expenses.
- (5) Among the personal information described in (4), only the name and address may be used for contact purposes from Hokkaido University Frontier Foundation, Hokkaido University Athletic Union, Alumni Association of the School of Science, and Alumni Association Elm of Hokkaido University by taking safety measures.

June 2019

Graduate School of Science

Hokkaido University

Admission Requirements at the Graduate School of Science

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

General Category and Special Category for Working Adults

1. Admission Quota

Department	Admission Quota		Website
	October 2019	April 2020	
Mathematics	A few students	16	https://www.math.sci.hokudai.ac.jp/en/
Condensed Matter Physics	A few students	10	https://phys.sci.hokudai.ac.jp/cond-mat/index_eng.html
Cosmosciences	A few students	9	https://www.ep.sci.hokudai.ac.jp/~cosmo/index-e.htm
Natural History Sciences	A few students	20	Earth and Planetary Dynamics/ Earth and Planetary System Science/ Seismology and Volcanology: https://www.sci.hokudai.ac.jp/grp/epsdc/exam/ Biodiversity: https://www.sci.hokudai.ac.jp/biodiversity_e/ Science Communication: https://sc.sci.hokudai.ac.jp/
Total	—	55	

Notes

- ① For more details about each department, please contact the department concerned.
- ② Applicants to the Department of Natural History Sciences must choose from among the Divisions of 1) Earth and Planetary Dynamics/Earth and Planetary System Science/Seismology and Volcanology, 2) Biodiversity, or 3) Science Communication. Check the appropriate box on the application form.
- ③ The admission quota in the table above includes working adults and international students. Those who wish to enroll while continuing their employment may apply under the Special Category for Working Adults.
- ④ Some departments may conduct a fall selection and a second selection. The entrance examination for the fall selection is scheduled in mid-November, and for the second selection, early February.

2. Eligibility

Applicants must fulfill one of the following criteria:

- (1) Received or are expected to receive a master's degree or a professional degree (refers to the professional degree stipulated in Article 5-2 of the Degree Regulations (Ordinance of the Ministry of Education, Science and Culture No. 9 of 1953) in accordance with the provisions of Article 104(3) of the School Education Act) prior to admission;
- (2) Received or are expected to receive a degree equivalent to a master's degree or a professional degree at a university outside Japan prior to admission;
- (3) Received or are expected to receive a degree equivalent to a master's degree or a professional degree by completing course subjects through a distance-learning course offered by a school of a foreign country while living in Japan prior to admission;
- (4) Received or are expected to receive a degree equivalent to a master's degree or a professional degree by completing a school education at an institution established in Japan that is recognized by the school

education system of a foreign country as an equivalent of the graduate school of that country and is designated separately by the Ministry of Education, Culture, Sports, Science and Technology (MEXT);

- (5) Received or are expected to receive a degree equivalent to a master's degree by completing a course at the United Nations University which was established based on the United Nations General Assembly Resolution of December 11 of 1972, stipulated in Article 1(2) of the Act on Special Measures Concerning the Enforcement of the Agreement between the United Nations and Japan about the Headquarters of the United Nations University (Act No. 72 of 1976);
- (6) Are recognized as having academic aptitude equivalent or superior to those who hold a master's degree by completing a school education provided by a school of a foreign country, an educational institution designated in (4) above, or the United Nations University, and by passing an examination or screening or equivalent specified in Article 16-2 of the Standards for the Establishment of Graduate Schools;
- (7) Have been designated by MEXT (Ministry of Education Notification No. 118 of 1989), i.e.;
 - ① Graduated from a university, engaged in research at a university or a research institute for two years or longer, and are recognized by the Graduate School of Science as having reached an academic level equivalent or superior to those who hold a master's degree, based on research results.
 - ② Completed 16 years of school education outside Japan, or completed 16 years of school education of a foreign country through a distance-learning course offered by a school of that country while living in Japan, and subsequently engaged in research at a university or a research institute for two years or longer, and are recognized by the Graduate School of Science as having reached an academic level equivalent or superior to those who hold a master's degree, based on research results
- (8) Are recognized as having academic aptitude equivalent or superior to those who have a master's degree or a professional degree through the screening for entrance eligibility conducted by the Graduate School of Science, and have reached the age of 24.

* Applicants who wish to enroll in October 2019 must indicate so by checking the appropriate box on the application form.

3. Pre-Assessment of Qualification

Application Period: June 21 – June 25, 2019

Applicants who fall under (7) or (8) in “2. Eligibility” must go through a pre-assessment of qualification prior to the application for entrance examination. Please submit “5. Application Documents” during the period described above. To receive the result, please enclose a self-addressed envelope with an 82-yen stamp affixed.

Applicants must not pay the entrance examination fee at the time of the pre-assessment. They should pay the entrance examination fee in accordance with the notes below. Application will be accepted at the Graduate School Educational Affairs Section between 9:00 AM and 4:00 PM, except on Saturdays, Sundays and national holidays. If you mail the documents, they must be received by the deadline.

Notes:

*The results of the pre-assessment will be sent to applicants around July 4, 2019 by mail. Once their qualifications have been approved, applicants must pay the examination fee in accordance with “7. Entrance Examination Fee,” and submit the payment certificate by July 25, 2019. Application will not be accepted if the payment certificate is not received during the specified period.

*Students who will receive the Japanese Government (MEXT) scholarship, the State-Sponsored Scholarship Program of the China Scholarship Council, or the Hokkaido University President’s Fellowship (including those who are expected to receive these scholarships) are not required to pay the examination fee.

4. Application Period

Application Period: July 19 – July 25, 2019

Applicants who fall under (1) through (6) in “2. Eligibility” must submit “5. Application Documents” together with the payment certificate (see “7. Entrance Examination Fee”) during the application period.

Applications will be accepted between 9:00 AM and 4:00 PM, except on Saturdays, Sundays and national holidays. If you mail the documents, they must be received by the deadline.

5. Application Documents

(1) General Category

* Applicants who fall under (7) or (8) in “2. Eligibility” must submit the following documents during the application period described in “3. Pre-Assessment of Qualifications”.

* In the following table, “○” indicates documents that must be submitted by all applicants, while “△” indicates documents that must be submitted by those who meet the definition in the “Remarks”.

Documents	Applicants		Remarks
	(1)(2) (3)(4) (5)(6)	(7) (8)	
1 Application Form, Resume, Admission Ticket and Photo Card	○	○	[Specified form] Applicants who have completed a school education outside Japan or a distance-learning course offered by a foreign educational institution must fill out Resume B.
2 Research plan after enrollment	○	○	Use specified form.
3 Copy of the thesis for master’s degree	△		① Applicable to a master’s or professional degree holder. ② Applicants from the Master's Course in the Graduate School of Science, Hokkaido University are not required to submit this document.
4 Summary of research made during the Master’s Course (within two pages in A4-sized paper)	△		Applicable to those who received or are expected to receive a master’s degree. Applicants to the Department of Mathematics should submit a <u>summary of study and research</u> instead of a summary of research.
5 List of research accomplishments and copy of principal research paper		○	In any format.
6 Certificate of research		○	[In any format] Documents to prove the topic and period of your research issued by the head of university or research institute or a supervisor.
7 Official transcript issued by the graduate school which an applicant graduated from	○	○	① Applicants from the Master's Course in the Graduate School of Science, Hokkaido University are not required to submit this document. ② Applicants under (6), (7) or (8) in “2. Eligibility” are required to submit a transcript issued by the academic institution or school they graduated most recently.
8 Official certificate of graduation (or expected graduation) issued by the graduate school which an applicant graduated from	○	○	① Applicants from the Master's Course in the Graduate School of Science, Hokkaido University are not required to submit this document. ② Applicants under (7) or (8) in “2. Eligibility” are required to submit the certificate issued by the academic institution or school they graduated most recently. ③ Applicants under (6) in “2. Eligibility” are required to submit a document equivalent to the Qualifying Examination.
9 Documents specified by each department	△	△	See “(3) Documents Specified by Each Department” below.

10	Self-addressed envelope to receive an admission ticket for entrance examination	○	○	[Specified envelope] Write your name, mailing address and postal code on an envelope with a 362-yen stamp attached. If you need to change your address afterwards, notify the Graduate School Educational Affairs Section immediately.
11	Stickers to receive application results and to be used for communication purposes	○	○	[Specified sticker] Write your name, mailing address and postal code on each sticker. If you need to change your address afterwards, notify the Graduate School Educational Affairs Section immediately.
12	Recommendation letter from the president or a faculty member of the most recent academic institution	△	△	[A4-sized paper in any format] Applicants to the Departments of Mathematics, Condensed Matter Physics or CosmoSciences may submit this document (not mandatory).
13	Certificate for English proficiency (the original score sheets of TOEFL or TOEIC)	△	△	Applicants to the Department of Natural History Sciences must submit this certificate. Acceptable score sheets are as follows: [Divisions of: Earth and Planetary Dynamics; Earth and Planetary System Science; and Seismology and Volcanology] (1) TOEIC Public Testing (limited to Listening & Reading Test) (must have been taken in or after July 2017) (2) TOEFL-iBT or TOEFL-PBT (must have been taken in or after July 2017) Photocopy of the score sheet is not accepted. TOEFL-ITP, TOEIC-IP and TOEIC-Bridge are not accepted. [Divisions of Biodiversity; and Science Communication] (1) TOEIC Public Testing (must have been taken in or after July 2017) (2) TOEFL-iBT or TOEFL-PBT (must have been taken in or after July 2017) Photocopy of the score sheet is not accepted. TOEFL-ITP, TOEIC-IP and TOEIC-Bridge are not accepted.
14	Self-addressed envelope to receive the result of pre-assessment		○	Write your name, mailing address and postal code on a standard envelope with an 82-yen stamp attached.

(2) Special Category for Working Adults

* Applicants under (7) or (8) in “2. Eligibility” must submit the following documents during the application period for “3. Pre-assessment of Qualifications.”

* In the following table, “○” indicates documents that must be submitted by all applicants, while “△” indicates documents that must be submitted by those who meet the definition in the “Remarks”.

Documents	Applicants		Remarks
	(1) (2) (3) (4) (5) (6)	(7) (8)	
1 Application Form, Resume, Admission Ticket and Photo Card	○	○	[Specified form] Applicants who have completed a school education outside Japan or a distance-learning course offered by a foreign educational institution must fill out Resume B.

2	Certificate of employment issued by a person with authority over personnel administration in the applicant's workplace	○	○	[In any format] Successful applicants will be required to submit a written consent on enrolling in the doctoral course while continuing their employment, issued by the person who has authority over personnel management. All applicants are advised to obtain the consent in advance.
3	Research plan after enrollment	○	○	Use specified form.
4	List of research accomplishments and copy of principal research paper	○	○	In any format.
5	Certificate of research	○	○	[In any format] Documents to prove the topic and period of your research issued by the president of a university, head of a research institute or a supervisor.
6	Official transcript issued by the most recent academic institution (university or higher level)	○	○	① Applicants from the Master's Course in the Graduate School of Science, Hokkaido University are not required to submit this document. ② Applicants under (6), (7) or (8) in "2. Eligibility" are required to submit a transcript issued by the academic institution or school they graduated most recently.
7	Official certificate of graduation (or expected graduation) issued by the most recent academic institution (university or higher level)	○	○	① Applicants from the Master's Course in the Graduate School of Science, Hokkaido University are not required to submit this document. ② Applicants under (7) or (8) in "2. Eligibility" are required to submit the certificate issued by the academic institution or school they graduated most recently. ③ Applicants under (6) in "2. Eligibility" are required to submit a document equivalent to the Qualifying Examination.
8	Documents specified by each department	△	△	See "(3) Documents Specified by Each Department" below.
9	Self-addressed envelope to receive an admission ticket for entrance examination	○	○	[Specified envelope] Write your name, mailing address and postal code on the specified envelope with a 362-yen stamp attached. If you need to change your address afterwards, notify the Graduate School Educational Affairs Section immediately.
10	Stickers to receive application results and to be used for communication purposes	○	○	[Specified sticker] Write your name, mailing address and postal code on each sticker. If you need to change your address afterwards, notify the Graduate School Educational Affairs Section immediately.
11	Recommendation letter from a person with authority over personnel management in the workplace, or by a (prospective) supervisor at the university or research institute	△	△	[A4-sized paper in any format] Applicants to the Departments of Mathematics, Condensed Matter Physics, or CosmoSciences may submit this document (not mandatory).

12	Certificate for English proficiency (the original score sheets of TOEFL or TOEIC)	△	△	<p>Applicants for the Department of Natural History Sciences must submit this certificate. Acceptable score sheets are as follows:</p> <p>[Divisions of: Earth and Planetary Dynamics; Earth and Planetary System Science; and Seismology and Volcanology]</p> <p>(1) TOEIC Public Testing (limited to Listening & Reading Test) (must have been taken in or after July 2017)</p> <p>(2) TOEFL-iBT or TOEFL-PBT (must have been taken in or after July 2017)</p> <p>Photocopy of the score sheet is not accepted. TOEFL-ITP, TOEIC-IP and TOEIC-Bridge are not accepted.</p> <p>[Divisions of Biodiversity; and Science Communication]</p> <p>(1) TOEIC Public Testing (must have been taken in or after July 2017)</p> <p>(2) TOEFL-iBT or TOEFL-PBT (must have been taken in or after July 2017)</p> <p>Photocopy of the score sheet is not accepted. TOEFL-ITP, TOEIC-IP and TOEIC-Bridge are not accepted.</p>
13	Self-addressed envelope to receive the result of pre-assessment		○	Write your name, mailing address and postal code on a standard envelope with an 82-yen stamp attached.

(3) Documents Specified by Each Department

Department	Documents to be submitted	Remarks
Mathematics	Reasons for application (specified form)	Provide the reasons for applying to this department. Check the appropriate box in the section for the period of completing the master's degree. Circle the examination site if you have the option of choosing the examination site.
Condensed Matter Physics	N/A	
Cosmosciences	List of preferred laboratories or fields (specified form)	Provide the name of one laboratory you wish to choose from the List of Supervisors and Research Fields.
Natural History Sciences	Earth and Planetary Dynamics	Provide the name of one laboratory you wish to choose from the List of Supervisors and Research Fields.
	Earth and Planetary System Science	
	Seismology and Volcanology	
	Biodiversity	Provide the name(s) of supervisor(s) you wish to seek guidance from.
Science Communication	1. List of preferred laboratories or fields (specified form) 2. Reasons for application (specified form)	

6. Where to Submit

To: Graduate School Educational Affairs Section
Science and Life Science Administration Department, Hokkaido University
Kita-10 Nishi-8, Kita-ku, Sapporo 060-0810 Japan

If you send your application documents by mail, please mark “Application Enclosed” in red on the envelope and send it by express registered mail.

7. Entrance Examination Fee: 30,000 yen

- (1) Students who are expected to complete the Master’s Course offered by the graduate schools of Hokkaido University, or who will receive the Japanese Government (MEXT) scholarship*, the State-Sponsored Scholarship Program of the China Scholarship Council, or the Hokkaido University President’s Fellowship (including those who are expected to receive these scholarships) are not required to pay the examination fee.
* MEXT scholarship students recommended by universities other than Hokkaido University are required to submit a copy of the letter proving that they will receive this scholarship.
- (2) Remit the examination fee through a bank or a post office by using the payment slip for entrance examination fee which is enclosed in the application package, and attach the payment certificate to the appropriate section on the application form.
- (3) The examination fee is not refundable except for the following cases:
 - The applicant has decided not to submit an application after examination fee was remitted, or the application was not accepted.
 - The applicant paid the examination fee twice by mistake.

8. Screening Method

The Graduate School of Science will assess applicants based on their master’s thesis or equivalent (through an interview), knowledge on their specified field, foreign language skills, research plan after enrollment and other application documents submitted.

For applicants under the Special Category for Working Adults, academic skills may be judged by their research achievements in practice (through an interview), rather than knowledge on their specified field or foreign language skills.

In addition to the above, Department of Natural History Sciences will consider the scores of TOEFL or TOEIC. Each applicant is responsible for checking the test dates for TOEFL (iBT or PBT) or TOEIC Public Testing in consideration of the application period.

Applicants to the Department of Mathematics may need to take a written exam. Please refer to the “Examination Details for the Department of Mathematics” (provided in Japanese).

9. Examination Dates

<Sapporo Site>

Department of Natural History Sciences (Divisions of: Earth and Planetary Dynamics; Earth and Planetary System Science; and Seismology and Volcanology): **August 7 (Wed) and 8 (Thu), 2019**

Department of Mathematics, Department of Condensed Matter Physics, Department of CosmoSciences, and Department of Natural History Sciences (Divisions of: Biodiversity; and Science Communication): **August 22 (Thu) and 23 (Fri), 2019**

<Tokyo Site>

Department of Mathematics: **August 25 (Sun), 2019**

* The Graduate School of Science will send detailed information on the entrance examination when sending the administration ticket.

* Applicants to the Department of Mathematics who need to take a written examination cannot take the exam in Tokyo. Please refer to the “Examination Details for the Department of Mathematics” (provided in Japanese).

10. Announcement of Results

Successful applicants will be announced on the bulletin board on the ground floor of the Faculty of Science (north entrance hall of Building 2 (Lower Wing)) Hokkaido University, around 4:30 PM on September 2, 2019. All applicants are notified of the results by mail.

Also, the examinee’s number will be posted on the website of the Graduate School of Science.

11. Procedures for Enrollment and Payment of Fees

All successful applicants are notified of the registration procedure at the time of notification of results.

Enrollment Fee: 282,000 yen (estimated)

* Applicants who are expecting to complete a Master’s Course in the graduate schools of Hokkaido University are not required to pay the enrollment fee.

Tuition Fee: 267,900 yen for the first semester (estimated) [Total annual tuition fee = 535,800 yen]

* If the tuition fee is revised during the period of your enrollment, the revised fee becomes effective immediately.

12. Important Notice

- (1) Make sure to bring your admission ticket on the day of examination and put it on your desk.
- (2) After submitting the application documents, applicants are not allowed to change their selection of department for any reason.
- (3) If you need special assistance in taking the examination due to physical difficulties, consult with the Graduate School Educational Affairs Section at the time of application.

13. Extending the Period of Registration

It is possible to extend the standard years of study at the Graduate School of Science. Read “Extending the Period of Registration” on page 9, and submit an application if you wish to take advantage of this system.

14. Other Information

The admission ticket for the entrance examination will be sent around August 5, 2019 to all applicants whose application document is accepted.

For the applicants to the Department of Natural History Sciences (Earth and Planetary Dynamics, Earth and Planetary System Science, and Seismology and Volcanology), the admission ticket will be sent around July 31, 2019.

If you have any questions about the application procedure, please contact the following:

Graduate School Educational Affairs Section
Science and Life Science Administration Department
Hokkaido University
Kita-10 Nishi-8 Kita-ku, Sapporo 060-0810, Japan
E-mail: r-gakuin@sci.hokudai.ac.jp

Graduate School of Science Website
<https://www.sci.hokudai.ac.jp/graduateschool/en/>

Extending the Period of Registration

1. Aims

When students under special circumstances such as having a job, etc. (including child and nursing care) have asked for an extension to complete the program for a period exceeding the standard years of study (3 years) with a scheduled plan of study, such scheduled study (hereinafter referred to as "Extended Period of Registration") may be approved after reviewing their application.

2. Intended Students

Students who fall under one of the criteria below and for that reason, wish to set the study period longer than the standard period to complete an academic (research) course:

- (1) Have a full-time job in a public office or company (excluding those who are exempt from job duty but receive a salary), or are self-employed;
- (2) Have a part-time job that has a significant influence on the full-time academic work;
- (3) Are taking care of children or other family members, which has a significant influence on the full-time academic work; or
- (4) Are visually impaired, hearing impaired, physically handicapped, etc., which are deemed to have a significant influence on the academic work for an extended period of time.

3. Attendance Period

The period approved for the Extended Period of Registration is up to 6 years for the doctor's degree program, and a student can apply for extension by the year. Students who have been approved of Extended Period of Registration may not continue their study beyond 6 years.

Students may take a temporary leave of absence from school for up to 3 years, the same as the students under the standard period of study.

4. Application Procedure

(1) Application Period

As a general rule, application documents for Extended Period of Registration should be submitted at the time of application for entrance examination.

(2) Required Documents

- ① Application Form for Extended Period of Registration (Form 1)
- ② Research Plan Under Extended Period of Registration (Form 2)
- ③ Documents to prove that an applicant needs to apply for Extended Period of Registration

(3) Announcement of Results

The Graduate School of Science reviews each application individually and will notify the results to all the successful applicants of the entrance examination.

5. Reducing or Extending the Period of Extended Period of Registration

When regarded as necessary, the Graduate School of Science may approve of reducing or extending the Extended Period of Registration only once. The period of reducing the Extended Period of Registration may not exceed the period of adding one year to the standard period of study (3 years).

6. Annual Tuition Fee

The tuition fee for students approved to study for an extended period will be calculated by multiplying the annual tuition fee by the number of years equivalent to the standard period of study (3 years), then dividing the resulting amount by the number of years approved for extended study. If the revision is made to the annual tuition fee or the changes to the Extended Period of Registration are approved, the fee will be calculated accordingly. However, the adjustment will not be made to the tuition fee which has already been paid.

Students who are waiting for results of application for Extended Period of Registration must not pay the tuition fee before they receive the official notification of results

7. Other Information

For more details about Extended Period of Registration, please contact the Graduate School Educational Affairs Section, Science and Life Science Administration Department, Hokkaido University.