

Academic Year 2022

Graduate School of Life Science

Hokkaido University

Division of Life Science

Division of Soft Matter

Master's Course

(Former Period of Doctoral Program)

Winter Selection

Application Guidelines for the

Entrance Examination

(Admission for Integrated Science Program Students)

November 2021

Important Notice

In order to prevent the spread of COVID-19, the examination may be conducted in a different way from the description on this guidelines, or it will be postponed/cancelled.

There is no supplementary examination individually under the influence of COVID-19 in the winter selection since the opportunities to take the examination had already been provided several times for those who wish to enroll in April 2022.

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 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) the 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 of (4), only name and address may be used to contact from Hokkaido University Frontier Foundation, Hokkaido University Athletic Union, Alumni Association of the School of Science, Alumni Association of the Faculty of Pharmaceutical Sciences and Alumni Association Elm of Hokkaido University under safety measure.

Admission Policy of Graduate School of Life Science

The Graduate School of Life Science provides students with the training that allows them to acquire an interdisciplinary knowledge of advanced life science, from the level of molecules to organisms. We provide comprehensive education with participation by instructors specialized in fields in the basic and applied life sciences, science, pharmaceutical science, medicine, and agriculture.

▪ Type of Students We Seek

<Division of Life Science>

The educational goal of training in the Division of Life Science is to enable students to comprehensively understand various living phenomena through biomolecular interactions, and to apply their knowledge and techniques in real life. On these principles and aims, we seek:

- ① Students having a strong intention to study not only basic life science but also the primary level of applied life science, as in medicine, pharmaceutical science, veterinary medicine, agriculture, fisheries science and biotechnology, and willing to acquire advanced analytical techniques and broad, in-depth knowledge of life science.
- ② Students having technical capabilities for advanced scientific research and having a strong intention to become a research professional in private firms, national or local governments.

<Division of Soft Matter>

The Division of Soft Matter seeks students who desire to be capable of integrating material science and a wide range of life science and developing soft matter science, understanding the structure and function of living matter from the viewpoint of material science, designing and constructing advanced soft matter and applying those finding to other fields.

The Division especially seeks following students.

- ① Students who wish to learn basic physics, chemistry and biology and to develop analytical and manufactural techniques in the field of soft matter.
- ② Students who wish to acquire technical capabilities for advanced scientific research and to have a strong intention to become educators, researchers or research professional in private firms.

▪ What is Expected to be Learned Before Admission

1. Basic academic skills and knowledge in Life Sciences
2. Basic knowledge in each specialized field that is necessary to engage in research in the graduate school

▪ Principle Selection Policy (Multiple-layered Evaluation Method)

【Admission for ISP Students】

By oral examination, applicants will be evaluated their levels of “knowledge and skills”, “ability to think/judge/express”, “ability to work independently and cooperatively”, “comprehension”, “interest and motivation”, “ability to identify problems” and “ability to solve problems.”

The Graduate School of Life Science will assess applicants on the basis of their entrance examination and the application documents (such as a transcript).

▪ Principle Selection Policy (Evaluation elements and their importance)

| [Master's Course] | | Key Elements of Academic Ability | | | Comprehension | Interest and motivation | Ability to identify problems | Ability to solve problems |
|---|-----------------------|----------------------------------|--------------------------------------|--|---------------|-------------------------|------------------------------|---------------------------|
| Category of Entrance Examination | Evaluation Element | Knowledge and Skills | Ability to think, judge, and express | Learning Attitude (to take initiative, to cooperate with diverse people) | | | | |
| Admission for Integrated Science Program (ISP) Students | Oral Examination | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ |
| | Application Documents | Comprehensively evaluated | | | | | | |

(Note) ◎---Key element we will give great importance on evaluation

1. Admission Quota

| Division and Course | Admission Quota (Enrollment) | |
|--|---------------------------------|--------------|
| | April 2022 | October 2022 |
| Division of Life Science Transdisciplinary Life Science Course Biosystems Science Course | A few students | |
| Division of Soft Matter | A few students | |

2. Eligibility

Applicants who are currently studying at the Hokkaido University's Integrated Science Program and are expected to graduate in March or September ,2022.

3. Application Period

Application Period: December 6 – December 10, 2021

Submit the completed application documents (see “4. Application Documents”).
(Application documents must be sent by mail and must be received by the deadline.)

4. Application Documents

| Documents | | Remarks |
|-----------|--|---|
| 1 | Application Form, Resume, Admission Ticket and Photo Card. | [Specified form] |
| 2 | Official Transcript issued by the current Undergraduate School | Transcript must contain grades up to the spring-summer semester of the fiscal year 2021 . |
| 3 | Official Certificate of Expected Graduation issued by the current Undergraduate School | |
| 4 | List of preferred supervisors. | [Specified form] Directly contact supervisors you prefer in advance. |
| 5 | Self-addressed envelope to receive the admission ticket for the entrance examination. | [Specified envelope] Write your name, mailing address and postal code on an envelope with a 430-yen stamp attached. If you need to change your address afterwards, notify the Graduate School Educational Affairs Section immediately. |
| 6 | 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. |

© Documents specified by course

| Division | Document to be submitted | Remarks |
|---|--------------------------|---|
| Division of Life Science (Transdisciplinary Life Science Course) Division of Soft Matter | Summary of Research | Applicants for the Division of Life Science (Transdisciplinary Life Science Course) or the Division of Soft matter must submit “Graduation thesis of University” or “Proposed research” in one page A4-sized paper (use Form 1 as a reference) containing no fewer than 400 words, nor more than 600 words in English. Illustration and tables (black and white, colored) can be included. They are not counted as words. Write applicant’s name and title, and divide text into each item such as outline, aim etc. Any form is acceptable as long as it contains the contents of Form 1. It is highly recommended that applicants create a sheet by computer and print it out. |
| Division of Life Science (Biosystems Science Course) | Essays | <p>① Applicants for the Division of Life Science (Biosystems Science Course) must submit an essay for each of the following two subjects:</p> <p>(1) Reasons for applying (no fewer than 200 words, nor more than 400 words in Japanese, or no fewer than 100 words, nor more than 200 words in English)</p> <p>(2) Outline of Previous (graduate) study (no fewer than 800 words, nor more than 1,000 words in Japanese, or no fewer than 400 words, nor more than 500 words in English)</p> <p>② Useful information.</p> <p>(1) Essays can be submitted in either English or Japanese.</p> <p>(2) Illustration and tables can be included.</p> <p>(3) The use of a computer word processor is recommended.</p> <p>③ Form and Format.</p> <p>(1) Use the proscribed form for essays. Please provide necessary information on the prescribed form. It is acceptable to another sheet over the appropriate section of the prescribed form.</p> <p>(2) Using separate sheets for essays. Please provide necessary information on the prescribed form, but attach extra A4-size sheets if necessary (Write the course you wish to apply for and your full name on these sheets).</p> |

5. 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

Application documents must be sent by mail. Please mark “Application for Graduate School Enclosed” in red on the envelope and send it by express registered mail.

6. Entrance Examination Fee:

The examination fee is not required to pay.

7. Screening Method (Common in all division and courses)

The graduate school will assess applicants on the basis of the results of oral examinations and on the details of their transcripts.

<Division of Life Science (Transdisciplinary Life Science Course) and Division of Soft Matter>

① Oral Examination

In this examination, applicants are required to take two kinds of oral examinations: (A) general questions of the reason for applying and the research aspiration etc. (B) explanation of research outline submitted, and basic knowledge and academic skills related to the content in English.

② Selection Criteria

The graduate school will decide successful applicants on the basis of the oral examination and the application documents.

<Division of Life Science (Biosystems Science Course)>

① Oral Examination

In this examination, applicants are questioned on their specialized scientific knowledge, general scientific knowledge, and research motivation based upon their written essays ["1. Reason for applying" and "2. Previous (graduate) study"].

② Selection Criteria

The graduate school will decide successful applicants on the basis of the oral examination and the application documents.

*Oral Examination will be held on online using the Internet Meeting System. Details are noticed applicants individually by email.

8. Date of Examination

Date: January 12 or January 13, 2022

* The Graduate School will send applicants detailed information on the entrance examination such as time of examination, location and how to take oral examination online.

* It is not allowed to apply to more than one Course/Division.

9. Announcement of Application Results

The examinees' number of successful applicants will be posted on the website of the Graduate School of Life Science, Hokkaido University, around 4:30 PM on January 20, 2022. All applicants are notified of the results by mail.

10. 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: Not required.

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

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

* Detailed information on ISP scholarship will be notified separately.

11. Important Notice

(1) Make sure to bring your admission ticket on the day of examination and put it on your desk.

(2) Please consult with the Graduate School Educational Affairs Section at the time of application if you have physical difficulties in taking the examination.

12. Other Information

The admission ticket for the entrance examination will be sent to all applicants around December 23, 2021, to all applicants whose application document is accepted.

If you have any questions regarding 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
Tel: (011) 706-3675

Graduate School of Life Science, Hokkaido University
<https://www.lfsci.hokudai.ac.jp/en/>