

Tohoku Medical and Pharmaceutical University
Graduate School of Pharmaceutical Sciences
Major of Pharmaceutical Life Sciences

Application Guidelines 2025

Master's Course

Doctoral Course

[Special Selection of Non-Japanese Students]

[Master's Course]

[Master's Course in Pharmaceutical Life Sciences]

The Master's Course in Pharmaceutical Life Sciences aims to cultivate individuals who can excel in a wide range of fields by studying life sciences spanning both medical and pharmaceutical domains, based on the foundation of basic pharmaceutical sciences. It was established in April 2010 on top of the four-year undergraduate program in the "Department of Pharmaceutical Life Sciences." The Diploma Policy (policy for awarding degrees), Curriculum Policy (policy for organizing and implementing curriculum), and Admission Policy (policy for accepting new students) of the Master's program are as follows:

○ Diploma Policy

The Master's Course in Pharmaceutical Life Sciences confers the degree (Master of Pharmaceutical Life Sciences) upon students who have demonstrated the abilities set forth below:

- 1 . Acquiring fundamental knowledge, understanding, and skills in the field of pharmaceutical life sciences.
- 2 . Acquiring basic skills as a researcher in pharmaceutical and medical fields, pharmaceutical technologists, environmental and hygiene technologists, and advanced medical information providers.
- 3 . Possessing a self-improvement attitude, high ethical standards, and being expected to contribute to the health and welfare of people.

These abilities are acquired through lectures, exercises, and project-based research in the educational program which is based on the educational philosophy of the University. Furthermore, students must earn the prescribed credits and pass the examination of their master's thesis.

○ Curriculum Policy

The curriculum consists of the Life Science Course and the Medicinal Science course, depending on the major field of study. Both courses emphasize foundational education enabling life sciences and medicinal sciences in specialized lecture subjects. Additionally, a wide range of knowledge is imparted, including pharmaceutical knowledge, and collaboration with pharmaceutical science departments is facilitated to enrich lectures. Furthermore, specialized lectures on basic pharmaceutical science research, useful for understanding drug safety and medical environments, are also conducted to ensure continuity with the latter stage curriculum and research guidance. During research projects, supervising faculty members provide guidance throughout the two years, aiming to foster researchers and technologists who possess advanced specialized knowledge through experimental research and achieve a harmonious balance between theory and practice.

○ Admission Policy

1. Seeking students who can demonstrate their creative thinking skills and acquire the ability to tackle new problems with enthusiasm.
2. Seeking students who cultivate a spirit of scientific inquiry and a strong desire to learn, and aim to acquire a wide range of academic knowledge.
3. Seeking students who can acquire the skills to be active internationally as researchers and technologists in medicinal sciences, advanced medical information providers, environmental and hygiene technologists, and professionals in basic fields that support medical care.
4. Seeking students who can acquire specialized knowledge and skills in medicinal sciences and life sciences based on basic pharmacy and molecular pharmacy, and who can acquire the ability to play an active role in companies and various research institutes in various industries such as pharmaceuticals, chemical industries, food, cosmetics, and biotechnology.

1. Number of Students to be Accepted : several

[Medicinal Science Course]

Organic and Pharmaceutical Chemistry / Synthetic and Medicinal Chemistry
Natural Product Chemistry / Structural Glycobiology

Bioanalytical Chemistry* / Pharmacology* / Environmental and Health Science*
Pharmacognosy* / Medical and Pharmaceutical Information Science*
Drug Metabolism and Pharmacokinetics*

A total of 10 laboratories (* stands for cooperating laboratories)

[Life Science Course]

Cell Recognition Study / Glycopathology / Regulatory Glycobiology / Biochemistry
Infection and Host Defense

Radiopharmacy* / Physiology and Anatomy* / Pathophysiology*

A total of 8 laboratories (* stands for cooperating laboratories)

Note: You should obtain your desired research advisor's approval before submitting application documents.

2. Qualification of Applicants

Applicants for the special selection of non-Japanese students to the master's course should not have Japanese nationality and also need to fulfill at least one of the following requirements

- (1) Graduated from a foreign university or have equivalent qualifications
- (2) Acknowledged by the Graduate School of Tohoku Medical and Pharmaceutical University to have academic skills equivalent to those of university graduates

Note: When it corresponds to qualification (2), please inquire at the academic assistance section
by Friday December 13, 2024

3. Documents to be submitted

- (1) Entrance application form (designated form)
- (2) Medical certificate
- (3) A designated-form written pledge (signed by the student) combined with a letter of certificate (signed by a guarantor)
- (4) Certificate of (prospective) graduation or completion issued by the school last attended
- (5) Certificate of academic performance from the school last attended
- (6) Certificate of Japanese Language Proficiency or official grade transcripts of the Japanese Language Proficiency Test conducted by Japan Educational Exchanges and Services
- (7) Certificate of alien registration (applicants residing in Japan only)
- (8) Certificate of qualification for studying overseas issued by a Japanese diplomatic office or foreign government
- (9) Other documents required

4. Period of acceptance of applications

- (1) Period for acceptance of applications: Monday, January 20 to Friday, January 24, 2025.
- (2) Office hours: 9:00a.m. to 5:15p.m. (weekdays)

5. Examination Date

Examinations will be held on Monday, February 3, 2025.

6. Other

Examinations will be held at Tohoku Medical and Pharmaceutical University in Sendai city
(4-4-1 Komatsushima, Aobaku, Sendai, Miyagi 981-8558, JAPAN)

7. Examination fee

35,000 yen

8. Selection Methods

- Written examinations will be based on essay examination and specialized subjects related to pharmaceutical sciences.
- Oral interview

Test date	Time schedule	Examination subjects
Monday, February 3, 2025	9 : 00 ~ 10 : 00	Essay (in Japanese or English)
	10 : 30 ~ 12 : 00	Specialized subjects related to pharmaceutical sciences 【Number of questions】 Organic Chemistry 【2】 Physical Chemistry 【1】 Natural Product Chemistry 【1】 Analytical Chemistry 【1】 Biochemistry 【2】 Pharmacology 【1】 Physiology 【1】 Hygienic Chemistry 【1】 Questions will be written in both Japanese and English. Examinees must answer two questions out of ten.
	13 : 00 ~	Oral interview

9. Announcement of Successful Applicants

Friday, February 14, 2025

The examinee numbers of accepted applicants will be posted on the bulletin board at Tohoku Medical and Pharmaceutical University.

Accepted applicants will also be notified by postal mail.

10. Deadline for Enrollment Procedure

Wednesday, February 26, 2025

11. Other

- (1) When requesting the application form from the educational affairs section of Tohoku Medical and Pharmaceutical University, the applicant should enclose a stamp of 140 yen for reply.
- (2) When sending the application forms by mail, the applicant should enclose a stamp of 84 yen to be used for mailing the examination card to the applicant.

- (3) Inquiries regarding the details of Guidelines for Applicants should be directed to the educational affairs section of Tohoku Medical and Pharmaceutical University.
- (4) The applicant should obtain the intended research advisor's approval before submitting application documents.
- (5) Applicants from universities which have international exchange agreements with Tohoku Medical and Pharmaceutical University will be selected based on other methods.

〈 Itemized List of Academic Fees 〉

Academic Fees List 2025

	Master's course	Memo
Examination fee	35,000 yen	
Admission fee	200,000 yen	required only on enrollment
Tuition fee	400,000 yen	annual

※ Notes

1. No admission fees are required from students continuing on to the Doctoral course after completing a Master's degree at the Graduate School of the Tohoku Medical and Pharmaceutical University.
2. Privately-funded foreign students can apply to be exempted from payment of all or part of the entrance examination, admission and tuition fees, based on the university rules and regulations on reduction of and exemption from tuition payment etc.

[**Doctoral Course**]

[Doctoral Course in Pharmaceutical Life Sciences]

The Doctoral Course in Pharmaceutical Life Sciences is a three-year doctoral program based on the Master's Course in Pharmaceutical Life Sciences established in April 2010. The Diploma Policy (policy for awarding degrees), Curriculum Policy (policy for organizing and implementing curriculum), and Admission Policy (policy for accepting new students) of the Doctoral Program are as follows:

○ Diploma Policy

The Doctoral Course in Pharmaceutical Life Sciences confers the degree upon students who have demonstrated the abilities set forth below to become independent researchers in specialized fields, primarily life sciences and drug discovery science. These abilities are acquired through lectures, exercises, and project-based research in the educational program which is based on the educational philosophy of the University. Furthermore, students must earn the prescribed credits and pass the examination of their doctoral dissertation.

- 1 . Individuals who have acquired specialized knowledge and skills in the fields of life science and drug discovery science, and who are able to contribute to the improvement of human health and social welfare.
- 2 . Individuals who are able to identify issues independently, conduct research, and disseminate the results internationally.
- 3 . Individuals who possess high ethical standards as researchers and educators.
- 4 . Individuals who are able to maintain a high level of enthusiasm for research and self-improvement throughout their lives.

○ Curriculum Policy

As in the master's program, the curriculum consists of the Life Science Course and the Medicinal Science Course, depending on the major field of study. Mainly to cultivate advanced specialized knowledge and practical application skills, the curriculum is primarily comprised of research in each major field, seminars, and experimental research courses based on students' own research themes. Moreover, in order to conduct education and research that takes into consideration each student's academic background, each year the supervising professor holds detailed consultations with the student to develop an annual education and research plan. At the end of the first and second years, each student is required to present the progress of his or her research in the form of an open seminar, and to promote his or her research activities while utilizing counsel from faculty members other than the supervising professor. Students will also receive instruction in reading and writing papers in English. This enables them to develop the ability to write their own papers in English and submit them to international journals. Through these processes, we aim to train independent researchers and engineers.

○ Admission Policy

1. This program is seeking applicants with a strong desire to become independent researchers and technologists who can demonstrate originality and excellent technical skills.
2. This program is seeking applicants with a strong desire to become educators and researchers in pharmaceutical and life science universities.
3. This program is seeking applicants with a strong desire to acquire deeper expertise in the doctoral program and to contribute their findings to the improvement of the health and social welfare of the people.

1. Number of Students to be Accepted : several

[Medicinal Science Course]

Organic and Pharmaceutical Chemistry / Synthetic and Medicinal Chemistry

Natural Product Chemistry / Structural Glycobiology

A total of 4 laboratories

[Life Science Course]

Glycopathology /Regulatory Glycobiology / Infection and Host Defense

A total of 3 laboratories

Note: You should obtain your desired research advisor's approval before submitting application documents.

2. Qualification of Applicants

Applicants for the special selection of non-Japanese students to the doctoral course should not have Japanese nationality and also need to fulfill at least one of the following requirements:

- (1) Obtained a degree corresponding to a master's degree outside Japan or have equivalent qualifications
- (2) Acknowledged by the Graduate School of Tohoku Medical and Pharmaceutical University to have academic skills equivalent to those of university graduates

Note: When it corresponds to qualification (2), please inquire at the academic assistance section by Friday December 13, 2024

3. Documents to be submitted

- (1) Entrance application form (designated form)
- (2) Medical certificate
- (3) A designated-form written pledge (signed by the student) combined with a letter of certificate (signed by a guarantor)
- (4) Certificate of (prospective) graduation or completion issued by the school last attended
- (5) Certificate of academic performance from the school last attended
- (6) Certificate of Japanese Language Proficiency or official grade transcripts of the Japanese Language Proficiency Test conducted by Japan Educational Exchanges and Services or Official Score Certificate of TOEIC or TOEFL
- (7) Certificate of alien registration (applicants residing in Japan only)
- (8) Certificate of qualification for studying overseas issued by a Japanese diplomatic office or foreign government
- (9) Other documents required

4. Period of acceptance of applications

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(4-4-1 Komatsushima, Aobaku, Sendai, Miyagi 981-8558, JAPAN)

7. Examination fee

35,000 yen

8. Selection Methods

- Defense or written examination based on the thesis (Master's thesis) written in Japanese or the foreign language designated by the graduate course committee (English).
- Written examination (English language)
- Oral interview

Test date	Time schedule	Examination subjects
Monday , February 3, 2025	9 : 00 ~ 10 : 00	Foreign language (Questions are about the major subject, and must be answered in English.)
	10 : 30 ~ 12 : 00	Specialty (Concerning examinee's master's thesis)
	13 : 00 ~	Oral interview

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〈 Contact information 〉

Tohoku Medical and Pharmaceutical University
Graduate School of Pharmaceutical Sciences

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