STUDENT ADMISSION INFORMATION

FOR 2018
(Second Selection)

MASTER’S PROGRAMS

in

MEDICAL SCIENCES

DISABILITY SCIENCES

SCHOOL OF PUBLIC HEALTH

<table>
<thead>
<tr>
<th>Application period</th>
<th>① December 4 (Mon), 2017— December 13 (Wed), 2017</th>
<th>prescreening</th>
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<td>② December 19 (Tue), 2017— January 4 (Thu), 2018</td>
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<td>Entrance examination</td>
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<td>Announcements of successful applicants</td>
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<td>Registration for admission</td>
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TOHOKU UNIVERSITY

GRADUATE SCHOOL OF MEDICINE

November 2017
The Tohoku University Graduate School of Medicine is seeking students for the Master’s Program according to the following guidelines:

1. **Number of Openings for Students**

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<thead>
<tr>
<th>MAJOR</th>
<th>NUMBER OF OPENINGS</th>
</tr>
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<tbody>
<tr>
<td>I  Medical Sciences</td>
<td>6</td>
</tr>
<tr>
<td>II Disability Sciences</td>
<td>22</td>
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<td>III School of Public Health</td>
<td>4</td>
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</tbody>
</table>

*Health Sciences are not opening for student recruitment this time.*

*We plan to revise the admission capacity of Department of Disability Science and Department of Health Sciences after 2018.*

2. **COURSE**

<table>
<thead>
<tr>
<th>MAJOR</th>
<th>COURSE</th>
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</thead>
<tbody>
<tr>
<td>I  Medical Sciences</td>
<td>(1) General Course</td>
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<tr>
<td></td>
<td>(2) International Course of “Public Health Science for Human Security” (the course by English for students studying abroad)</td>
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<tr>
<td></td>
<td>(3) Molecular Imaging</td>
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<tr>
<td></td>
<td>(4) Basic Medicine (the course by English for students studying abroad)</td>
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<tr>
<td>II Disability Sciences</td>
<td>General Course</td>
</tr>
<tr>
<td>III School of Public Health</td>
<td>(1) General Course</td>
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<td></td>
<td>(2) Course to Train High-Level Clinical Research Administrators</td>
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<td></td>
<td>(3) One-Year Course to Train Physicians and Dentists for Clinical Research</td>
</tr>
<tr>
<td></td>
<td>(4) International Course of “Public Health Science for Human Security” (the course by English for students studying abroad)</td>
</tr>
</tbody>
</table>

*“Medical Physicists Training Course” and “Course in Public Health and Genetic Counseling” are not opening for student recruitment this time.*

*For offered fields (education and research field), please refer to the Tohoku University Graduate School of Medicine website “Research Areas” and “Laboratory Introduction 2017”:

Laboratory Introduction [http://www.med.tohoku.ac.jp/english/about/lab-int/index.html](http://www.med.tohoku.ac.jp/english/about/lab-int/index.html)

Research Areas [http://www.med.tohoku.ac.jp/english/about/laboratory/areas_index.html](http://www.med.tohoku.ac.jp/english/about/laboratory/areas_index.html)
3. ADMISSION REQUIREMENTS

Applicants for the master’s programs must satisfy one of the following conditions:

(1) Those who have graduated from a university (including those who are expected to graduate by March 2018)

(2) Those who have been conferred a baccalaureate degree (including those who are expected to be conferred the degree by March 2018) as stipulated by Article 104, Paragraph 4 of the School Education Act (Act No. 26 of 1947, hereafter referred to as “the Law”)

(3) Those who have completed 16 years of education in a foreign country (including those who are expected to complete this education by March 2018)

(4) Those who have completed 16 years of education in a foreign country through correspondence courses provided in Japan by a foreign school of said country or who are expected to have completed said courses by March 2018

(5) Those who have completed or are expected to complete a program in an educational facility in Japan designated separately by the Ministry of Education, Culture, Sports, Science and Technology that provides courses from a foreign university within the school system of a foreign country by March 2018 (this applies solely to those who have completed 16 years of education in said foreign country)

(6) Students who have been conferred a degree equivalent to a bachelor’s degree upon completion of a curriculum that has a course term of three years or longer at a university or other school (limited to schools whose overall educational and research activities have been evaluated by the relevant country's government or a government-approved individual, or are designated separately as having met this requirement by the Minister of Education) in a foreign country (including cases in which the student completed the curriculum by taking subjects conducted by said school via distance learning while the student resided in Japan, and cases in which the student has completed a curriculum at an educational facility that is positioned within that country's educational system as per the previous item)( including those who are expected to acquire a Bachelor degree by March 2018)

(7) Those who have successfully completed or, by the date designated by the Ministry of Education, Culture, Sports, Science and Technology, are expected to complete a specialized course specifically designated by the Ministry of Education, Culture, Sports, Science and Technology at a vocational school (whose minimum period required for graduation is four years or longer and that also satisfies other conditions specified by the Ministry of Education, Culture, Sports, Science and Technology) by March 2018

(8) Those designated by the Ministry of Education, Culture, Sports, Science and Technology (refer to Public Notice of the Ministry of Education No. 5 of 1953)

(9) Those who have been enrolled in a university for at least 3 years, those who have completed 15 years of formal education in countries other than Japan, those who have completed 15 years of education in a foreign country through correspondence courses provided in Japan by a foreign school of the said country, or those who have completed a program in an educational facility in Japan designated by the Ministry of Education, Culture, Sports, Science and Technology to provide courses from a foreign university within the school system of a foreign country (this applies solely to those who have completed 15 years of education in said foreign country), and those who have been recognized by this graduate school as having acquired the specified credits with outstanding performance by March 2018

(10) Those who entered another graduate school in compliance with the provisions of Article 102, Paragraph 2 of the Law and who are recognized by this graduate school as having academic ability appropriate for receiving postgraduate education

(11) Those who will be at least 22 years old by March 2018 and whom this graduate school has authorized, through individual screening of entrance qualifications, as having abilities that are at least equivalent to those of a university graduate

(EXPLICATORY REMARKS)

Before application, prospective students should first find a prospective supervisor. Find one professor in the field of your interest, contact and then obtain consent of acceptance to the laboratory.
In the case of a foreigner, please confirm the entrance qualification to the Graduate School of Medicine of Registry before submitting the application form.

Applicants eligible for “One-Year Course to train Physicians and Dentists for Clinical Research” in School of Public Health are either medical doctor or dental doctor in Japan who finished their clinical training authorized by Japan Government.

A university mentioned in item (1), (9) and (11) refers to a 4-year university in Japan.

Applicants who satisfy the conditions for items (6), (9), (10) or (11), must pass the preliminary screening for admissions.

a. Application Period for preliminary screening
   December 4 (Mon), 2017 — December 13 (Wed), 2017

b. Those who are interested in taking the preliminary screening should contact the Registrar’s Office Graduate School of Medicine Academic Affairs Section before applying.

* Refer the Tohoku University Graduate School of Medicine website "Concerning the Application for Examination of Qualifications for Admission".
  http://www.med.tohoku.ac.jp/english/admissions/admissions/apply/

4. APPLICATION PROCEDURE
   Applicants shall submit the documentation specified in the following Section (3) to the admission office within the application period.
   They shall sufficiently understand the contents of studies in the “prospective department,” directly contact the prospective professors about their examination applications prior to submission of the application forms (by visiting the prospective professors for interview), and receive approval.

(1) Application period is from December 19 (Tue), 2017 to January 4 (Thu), 2018 (application must reach the office due NLT 17:00(Japanese Standard Time), January 4 (Thu), 2018). Please use the prescribed application envelope and send by registered and express delivery. Some application forms may reach the admission office on January 5 (Fri), 2018 or later. In this case, those postmarked on and before January 4 (Thu), 2018 shall be regarded as valid.

(2) Applications should be addressed to:
   Graduate Academic Affairs Section, Academic Affairs Office
   Tohoku University Graduate School of Medicine
   2-1 Seiryo-machi, Aoba-ku, Sendai
   980-8575 Japan
   Tel: (+81) 22-717-8010

(3) APPLICATION DOCUMENTS

<table>
<thead>
<tr>
<th>DOCUMENTS</th>
<th>PARTICULARS</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPLICATION FORM/ RESUME</td>
<td>A Graduate School prescribed application form, with a recently taken photo affixed. Contact prospective Professor and obtain consent of acceptance to the laboratory, and tick the box of 「了承を得た」</td>
</tr>
<tr>
<td>ASPIRATIONS, MOTIVES, REASONS AND AMBITIONS</td>
<td>On a Graduate School prescribed application form (approximately 500 words long)</td>
</tr>
<tr>
<td>EXAM ADMISSION TICKET, PHOTO ID TICKET</td>
<td>Affix a photo to each of the prescribed application form and the photo ID ticket.</td>
</tr>
<tr>
<td>ENVELOPE FOR MAILING EXAM ADMISSION TICKET</td>
<td>Enclose the prescribed, return-addressed stamped envelope. The office will send the admission ticket in this envelope so it should clearly bear your name, return address and postal code.</td>
</tr>
</tbody>
</table>
TRANSCRIPT OF ACADEMIC RECORDS
Submit an official transcript of academic records issued by the president (dean) of your graduating university (graduate school) with the appropriate official seal.

English score record. *
Your foreign language (English) proficiency is evaluated on TOEIC TOEFL or IELTS. >

We don't return your score sheets submitted in principle. Please submit the official document(s) verifying that the result(s) of your TOEIC, TOEFL iBT or IELTS test were achieved from a test taken within two years of Tohoku university entrance exam. Result from non-public tests will not be accepted (ex: TOEFL ITP, TOEIC IP)

In the case of TOEIC, please submit the original copy of your official score certificate. In case of IELTS, please submit the original copy of your official result transcript.

*TOEFL, TOEFL iBT, TOEFL ITP and TOEIC are registered trademarks of Educational Testing Service (ETS).

APPLICATION FEE, ¥30,000
① The application fee is ¥30,000. Please Send it by postal remittance (do not fill in the space for the recipient).
② MEXT Scholarship students are not required to pay the application fee.

FEE PAYMENT SLIP
① Applicant's name should be entered on the slip (in two places).
② MEXT Scholarship students are not required to submit the fee payment slip.

CERTIFICATE OF COMPLETION (EXPECTED COMPLETION), ETC.
Certificate of the completion (expected completion) of a bachelor degree or a certificate of the conferral (expected conferral) of a bachelor degree. (Graduates of Tohoku University School of Medicine are not required to submit this form.)

A COPY OF RESIDENT’S CARD (ONLY STUDENT STUDYING ABROAD)
Candidates who stay in Japan (whose stay is over 90 days) must submit your copy of resident’s card (both front and back) at the application.

RETURN ENVELOPE FOR RECEIVING PASS/FAIL NOTICE AND ADMISSION DOCUMENTS
Enclose the prescribed, return-addressed stamped envelope for receiving the pass/fail notice. Also enclose the prescribed, return-addressed envelope for receiving admission procedure documents. The return address should be the address as of around early March, 2018 (postage is not necessary).

(4) IMPORTANT
① Any blank spaces or irregularities found in applications may result in rejection of the application so applicants should exercise great care when filling out the application form.
② If any of the information in an application is found to be false, it may result in cancellation of admission if the applicant is initially accepted.
③ The application fee is non-refundable under any circumstances.
④ Applicants who have satisfied the conditions for entry through preliminary screening should enclose a copy of their acceptance notification.
⑤ The University does not accept the application withdrawal after the reception and the modification of contents of applications.

5. SCREENING
(1) Applicants will be evaluated based on the following criteria.
   ① The result of your TOEIC, TOEFL, or IELTS official score certificate
   ② Essay score
   ③ Interview score
   ④ Application documents.
(2) ENTRANCE EXAMINATION DATE/TIME & SUBJECTS

<table>
<thead>
<tr>
<th>DATE</th>
<th>TYPE OF TEST</th>
<th>TIME</th>
<th>SUBJECTS</th>
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<tbody>
<tr>
<td>January 23, (Tue), 2018</td>
<td>Written examination</td>
<td>from 10:00 to 11:30</td>
<td>Short essay (on life science/ medical science, disability science, health science and public health)</td>
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<tr>
<td></td>
<td>Interview</td>
<td>from 13:00</td>
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(3) EVALUATION OF FOREIGN LANGUAGE (ENGLISH)
Your score of TOEIC, TOEFL or IELTS submitted at the application is converted into the normal score. If several score records are provided, the higher record is used for evaluation after the conversation.

(4) Department Assignment
Although there is no limit set on the quota to each department, we must limit the number of students we accept in the event of too many applicants applying for one department. They may not receive their first choice of department. They may, however, receive their second, third or fourth choice of department.

You can fill up the prospective laboratory from first choice to third choice in different course, but fourth choice has to be different course from your first choice.

6. LOCATION OF EXAMINATION
Tohoku University Graduate School of Medicine
Further information will be provided with the examination admission ticket.
7. ANNOUNCEMENT OF SUCCESSFUL APPLICANTS & PROCEDURE FOR ADMISSION

(1) The identification numbers of the successful applicants will be posted at the entrance lobby of Bldg. No. 1 of the School of Medicine at 10:00 on February 15 (Thu), 2018, and also published on the website. For the results of examination, please check the “Notification” which will be mailed later. We cannot answer the examination result on the phone or via email.

(2) Admission documents will be mailed to successful applicants by the beginning of March 2018.

(3) Fees for admission are as follows:
- Admission fee: ¥282,000 (expected)
- First semester tuition: ¥267,900 (annual tuition: ¥535,800) (expected)

(Explanatory Remarks)
1. The amounts mentioned above may change if the fees are revised at school entry or during the period of the applicant’s enrollment, in which case the new payment system will be applicable.
2. Information on exemptions from payment of admission or tuition fees or deferment of fees will be provided in the admission procedure document packet.

(4) Applicants who are employed at the time of admission must submit a letter of consent from their employer.

(5) The date of registration for admission is April 1, 2018.

8. OTHER INFORMATION

(1) Handling of personal information
1) Personal information collected during the admission procedure is used only for the following purposes: admission-screening procedure, admission procedure as well as, after the entrance, scholarship/student welfare, and study guidance. Personal information will be used for no other purpose.
2) Individual information collected during the admission procedure is strictly handled, based on the “Personal Information Protection Regulations of Tohoku University”. Personal information will not be disclosed or offered to a third party without specific prior written approval.
3) Applicants to the Tohoku University Graduate School of Medicine are understood to be in agreement with the content of the statement above.

(2) Applicants requiring special care during the examination procedures and subsequent schooling should request advice in advance by contacting the Registrar’s Office Graduate School of Medicine Academic Affairs Section. Please submit your “special care” requirement with prescribed form to Academic Affairs Section before December 13, 2017.

November 2017

TOHOKU UNIVERSITY GRADUATE SCHOOL OF MEDICINE
Graduate Academic Affairs Section
2-1 Seiryo-machi, Aoba-ku, Sendai  980-8575 Japan
Tel: (+81) 22-717-8010
Email Address: medaigakuin@grp.tohoku.ac.jp

This application information can be viewed at the following website: http://www.med.tohoku.ac.jp/english/admissions/admissions/apply/
DESCRIPTION OF GRADUATE SCHOOL PROGRAM

1. OBJECTIVE AND MISSION

I Master’s Program in Medical Sciences
Aims at cultivating researchers and educators in medical sciences, and human resources with expertise in medical sciences who can respond to industrial needs in the field of medical sciences.

II Master’s Program in Disability Sciences
For students who graduated in an area other than medical-related such as physical education, liberal arts and engineering, aims at cultivating human resources including researchers, teachers, and administrative officials who can make international contributions.
For medical specialists such as physical therapists, occupational therapists, and speech therapists, aims at cultivating of leaders such as teachers who can take charge of graduate school education for medical related occupations or who can perform specialized medical rehabilitation.

III Master’s Program in Health Sciences
While forming the research and educational base at a global level on health science, aims at contributing to the maintenance and improvement of health as a right of human beings in an advanced welfare society. Accordingly aims at cultivating researchers and educators in health sciences, and advanced medical professionals.

IV Master’s Program in School of Public Health
Aims at formulating the education-research center of public health at the world’s best standard, and aims at contributing to an advancement of health and welfare for people in Japan as well as all over the world.
Aims at training researchers, professionals and leaders, who have a broad background of public health and a high standard of job specialty and ethics.

2. COURSE OF STUDY AND CURRICULUM
In order to complete the master's programs and receive a degree, students must enroll in the program for two years or longer, and take a predetermined course of studies to acquire 30 credits or more, and have the necessary research supervision, complete a master's thesis and pass the final examination.

I Master’s Program in Medical Sciences
Master’s degree (Medical Sciences)

II Master’s Program in Disability Sciences
Master’s degree (Disability Sciences)

III Master’s Program in Health Sciences
- Course of Nursing 
  Master’s degree (Nursing)
- Course of Radiological Technology 
  Master’s degree (Health sciences)
- Course of Medical Technology 
  Master’s degree (Health sciences)

IV Master’s Program in School of Public Health
Master’s degree (School of Public Health)
3. RESEARCH SUPERVISION
All students who are admitted into the graduate program will be given research guidance in accordance with the research themes of the departments the students belong to.
Please refer to the Tohoku University Graduate School of Medicine website “Laboratory Introduction 2017”.

(Explanatory Note)
Research themes indicated with “a※” have not been finalized so please contact the following for any inquiries:

Graduate Academic Affairs Section, Educational Affairs Division
Tohoku University Graduate School of Medicine
2-1 Seiryo-machi, Aoba-ku, Sendai
980-8575 Japan
Tel: (+81) 22-717-8010
Email Address: m-daigakuin@grp.tohoku.ac.jp

4. ENTRANCE FEE/TUITION EXEMPTIONS
(1) Exemption of Admission Fee
Students recognized as being in severe financial difficulties are eligible to apply for exemption from payment of the admission fee (complete exemption or 50% exemption).

(2) Exemption of Tuition
Students recognized as being in severe financial difficulties are eligible to apply for tuition exemption (complete, 50%, or 1/3 exemption) if they have an excellent academic record.

*Please refer to the Tohoku University website “The application for admission fee waiver” and “The application for tuition fee waiver”.
http://www2.he.tohoku.ac.jp/menjo/
5. INTRODUCTION OF THE PROGRAMS

1 Introduction Medical Sciences Master's Programs

The goals are to raise educators and researchers who can contribute to the development of medicine and medical fields in Japan and international society, and to foster advanced medical professionals who will help realize safe and healthy society, where people can live in relief even when they are sick. To achieve the goals, we address bringing up people who have wide knowledge, flexible ideas, advanced information processing ability, a noble-minded sense of ethics, and practical techniques, unifying basic and clinical medicine education. Especially, the curriculum is composed so that even if the student is a graduate from other than faculty of medicine or related to medicine, he or she can harness the accumulated knowledge and skills, and develop it in the medicine and medical fields.

(1) General Course Features

This is the basic course of this major. Registered students belong to one of the fields of this major. In addition, students take compulsory subjects and study further in the curriculum related to that field.

(2) International Course of “Public Health Science for Human Security”

Course Features

After the cold was ceased in the early 1990’s, the concept of “Human Security” has become the primary common concern of international society. The new concept addresses the issues of security of “people”, instead of “nations”, such as illnesses, disasters, poverty, conflicts and so forth. Particularly in developing countries such as some nations in Asia, people’s lives and dignity have been threatened by diseases and injuries which are basically not curable because of poverty, natural disasters, poor environmental hygiene, malnutrition and so on. In addition, epidemics and environmental pollution jeopardize human security by crossing border perspectives based on interdisciplinary views and scientific knowledge.

The International Course of “Public Health Science for Human Security” is designed to develop students’ comprehension of the closely related factors which affect peoples’ lives and also their ability to produce solutions, by integrating the latest knowledge of medical science and international health with the method of the humanities and social sciences. The course further aims to nurture researchers and public health leaders in international society who will contribute to the realization of human security by taking leadership in solving security problems in public health.

This course is based on the “International Post-Graduate in Human Security,” and is conducted in collaboration with three other graduate schools (Agricultural Science, International Cultural Studies and Environmental Studies), from among which students may select elective courses. All elective and obligatory courses are lectured in English.
(3) Molecular Imaging
Course Features
Molecular imaging examines the molecular mechanisms of integrated systems in vivo using molecular probes. Many imaging technologies have been and are being developed to achieve these goals, such as optic imaging, magnetic resonance imaging (MRI), positron emission tomography (PET) and so on. Each has unique applications, advantages and limitations. Biomedical engineering, medicine, biology, dentistry and pharmaceutical sciences are joining to build technologies and molecular probes that measure and image molecular biological functions for organ systems. Biologists will benefit from easier movement from isolated molecular, cellular and tissue settings to an in vivo, where functions are directed and constrained by the requirements of organ systems and whole organisms. Patient care will profit from more direct links in the areas of molecular diagnostics and molecular therapeutics.

The special course of “molecular imaging” is designed to develop students’ comprehension of the closely related disciplines on “molecular imaging”, and also the ability to make a possible breakthrough in molecular imaging by integrating the latest knowledge of medical engineering, medicine, biology, density and pharmaceutical sciences. This special course “molecular imaging” mainly focuses on PET, but many issues also apply to other technologies. In addition, the courses focus on integrative mammalian biology ranging from mice to humans, as well as the transformation of in vivo molecular assays to in vivo imaging. This course is conducted in collaboration with the Graduate Schools of Medicine, Engineering, Pharmaceutical Sciences and Dentistry and the National Institute of Radiological Sciences (NIRS).

(4) Medical Physicists Training Course
Course Features
Advanced large medical machines are used in areas of diagnostic radiology and radiation therapy. Medical physicists are involved in the development of new instrumentation and technology for use in such fields and in the accurate measurement of the radiation output from radiation sources employed in cancer therapy to contribute clinical and scientific advice and resources to solve the numerous and diverse problems that arise continually in many specialized medical areas. Medical physicists are required to get credits in medicine, physics and clinical experience. Graduates of the Department of Radiation Technology in the Health Science Course and those of the Physical or Engineering Faculty are entered into this course. Medical physicists trained in research, education and medical treatment as team members with other medical specialists are trained.

(5) Basic Medicine (the course by English for students studying abroad)
Course Features
The purpose of this course is instructions of fundamental knowledge and skills of medicine and medical sciences.
Education including every lecture and direction of thesis is conducted in
English.
Many lecturers belong to Graduate School of Medicine. Their professional
territories cover all aspect of medical research. They instruct students how to
learn problem solution approaches through the position of medicine, as well as
to expand what students have learned to medical field. Two professors are
assigned for thesis advisers for developing diversified mindset.

II Introduction Disability Sciences Master's Programs

Course Features
As technology advances and develops, current healthcare enables life prolongation
of patients with refractory diseases. However, the number of people with
physical/cognitive dysfunctions is rapidly increasing, and such patients suffer from
complicated/multiple disabilities. In this situation, rehabilitation is required to cope
with a large variety of diseases, and its methods and roles are changing. Rehabilitation needs new ideas from different viewpoints. Aiming to increase and
develop human resources with higher levels of knowledge and rich humanity who
can respond to complicated/multiple disabilities, we need to establish an
interdisciplinary scientific field incorporating conventional rehabilitation medicine.
In this department, we make efforts to respond to social needs so that those with
disabilities can achieve functional recovery, reduced need of nursing care, social
rehabilitation and resettlement. We also attempt to explore new treatment,
rehabilitation and nursing care techniques and establish new healthcare systems
including analysis, assessment and prevention of various disabilities. In order to
attain these goals, we introduce medicine & science in sports & exercise, physical
engineering, neuroscience, neuropsychology, epileptology, behavioral medicine,
musical acoustic medicine, and biomechatronics into conventional rehabilitation
medicine, in order to unify the basic and clinical fields. In this manner, we promote
a wider range of educational/research activities.

III Introduction Health Sciences Master's Programs

[* This course not opening for student recruitment this time.]
The students aim to be advanced professionals, and educators and researchers. We
accept students from other fields as well as graduates from the health sciences
fields.
There are many students from the workforce entering this Department, and we
support them with such as long-term learning, lectures at night and seminars. There
is a way to qualify to take the entrance examination by the preliminary review prior
to the graduate school examination for those who graduate from a medical junior
college and have work experience.
The Department of Health Sciences is divided into three courses by the curriculum.
For completion, the student must obtain 30 credits in core and elective subjects in
lectures and master's thesis preparation (thesis research).
In each course, the student must acquire more than two credits from the common
elective subjects including the subjects specified in each course.
Thesis research is ten credits. Select the field to major in and the instructor for the
thesis. The remaining credits are acquired from the special subjects in each field.
Students of the nursing course need to acquire more than eight credits and those of
the radiological technology course and the medical technology course need to acquire
more than ten credits.

(1) Nursing Course:

① General Course Features
The General Nursing Course is divided into the two domains of Advanced Nursing Practice and Health Development Nursing, and Family Nursing, which are then subdivided into the 13 specialties of Science of Nursing Practice, Nursing Education and Administration, Gerontological and Home Healthcare Nursing, Nursing Science of Community Health Care System, Community Health, Public Health Nursing, Adult Health Nursing, Oncology Nursing, Palliative Nursing, Child Health Nursing, Psychiatric Nursing, Maternal Nursing, and Women's Health Nursing. Advanced Nursing Practice and Health Development Nursing is the domain for research and education on development and assessment of nursing skills, construction of nursing theory needed for promoting public health and supporting independent life, management of nursing education, the establishment of nursing ethics, promotion of the individual, group and community health. Family Nursing is the domain for research and education on the methods for retaining, improving and supporting the family function on the basis of family unit as the target of nursing and the properties and life events of the family unit. Access our website, etc. for the research detailed research in each field. Students who have nurse licenses and aim to be certified nurse specialists, can study through the curriculums of oncology nursing and pediatric nursing.

② Course of Public Health Nurse Training

Course Features
The qualifications and skills required for a public health nurse working in local communities change with each generation. In the present day where health issues are becoming increasingly complex as our lifestyles and values are more diversified, public health nurses need to have even more advanced practical and research skills to analyze the factors of these issues from their relation with society and the environment, and endeavor to resolve and improve them with the cooperation of local residents and professional groups. Also required is the capability to work as a high-level professional demonstrating leadership in carrying out support activities for disaster-affected areas of the Tohoku coastal region. From April 2014, Tohoku University is offering a Public Health Nurse Training Course in the Graduate School Doctor of Health Sciences Course (first term two-year program) for people aiming to become public health nurses or who want to improve their skills as public health nurses.

(2) Radiological Technology Course:

① General Course Features
The Radiological Technology Course is divided into two domains of Fundamental Radiological Science and Clinical Radiological Science, which are subdivided into seven specialties of Noninvasive Diagnostic Imaging, Radiological Imaging and
Informatics, Clinical Radiological Science, Diagnostic Image Processing, Diagnostic Image Analysis, Radiological Examination and Technology, and Therapeutic Radiology. Fundamental Radiological Science promotes the basic and applied research required to develop diagnostic imaging device, medical treatment equipment, and their applied technologies. Clinical Radiological Science is the domain to research and educate on broad diagnostic technologies used for various clinical diagnostic imaging, nuclear medicine technologies as functional diagnosis, quality control and assurance in radiodiagnosis and radiotherapy, and medical physics of a radiotherapy planning system, oncology, and radiobiology. Refer to the Website, etc. for detailed research in each field. Students aim to be a medical physicist, can learn by the curriculum centering on therapeutic radiology.

② Medical Physicists Training Course
Course Features
Advanced large medical machines are used in areas of diagnostic radiology and radiation therapy. Medical physicists are involved in the development of new instrumentation and technology for use in such fields and in the accurate measurement of the radiation output from radiation sources employed in cancer therapy to contribute clinical and scientific advice and resources to solve the numerous and diverse problems that arise continually in many specialized medical areas. Medical physicists are required to get credits in medicine, physics and clinical experience. Graduates of the Department of Radiation Technology in the Health Science Course and those of the Physical or Engineering Faculty are entered into this course. Medical physicists trained in research, education and medical treatment as team members with other medical specialists are trained.

(3) Medical Technology Course:
Course Features
The Medical Technology Course is divided into two domains of Laboratory Medicine and Science, and Laboratory Medicine and Clinical Science, which are subdivided into seven specialties of Molecular and Functional Dynamics, Medical Microbiology, Mycology and Immunology, Endocrinology and Applied Medical Science, Pathology and Histotechnology, Clinical Physiology, Molecular Hematology, and Pathophysiology. Laboratory Medicine and Science is the domain for fundamental research and education for laboratory medicine and science including basic research in the areas of molecular biology, molecular genetics, analytical chemistry, infection and immunity, endocrinology and metabolism, and applied research that lays emphasis on basic research. Laboratory Medicine and Clinical Science is the domain especially for advanced research and education aiming at clinical applications in areas that meet more clinical settings such as pathology and histotechnology, clinical physiology, pathophysiology. Refer to the website, etc. for detailed research in each field.

IV Introduction to the School of Public Health Master's Program
Aims at formulating the education-research center of public health at the world's best standard, and aims at contributing to an advancement of health and welfare
for people in Japan as well as all over the world. Aims at training researchers, professionals and leaders, who have a broad background of public health and a high standard of job specialty and ethics.

(1) General Course Features
This is the basic course of this major. Registered students belong to one of the fields of this major. In addition, students take compulsory subjects and study further in the curriculum related to that field.

(2) Course to Train High-Level Clinical Research Administrators
Course Features
In Japan, recognition of necessity of infrastructure for medical research of clinical trial and transformer rational research has risen since the latter half of the 90's. But it has been insufficient yet and we have to promote talents who support these very fast. In this course, we promote specialists who support medical research, such as a clinical research coordinator (CRC), a data manager, a drugs' cosmetics and medical instrument specialist, an IT specialist, at the departments of Epidemiology, Biostatistics, and Medical Informatics while we cooperate with the Clinical Research, Innovation, and Education Center (CRIETO), TAMRIC, the Tohoku University Hospital. You can take not only systematic lectures on medicine but a practice (training) for your specialties from the early stages of the course, so that you can take advantage of contents learnt in the lectures. We attempt to promote 'Advanced Medical Research Supporter' who make the best use of individual specialty and can well cooperate with other medical researchers.

(3) Course in Public Health and Genetic Counseling
【* This course not opening for student recruitment this time.】
Course Features
This course is for training students to become Certified Genetic Counselors (CGC, Academic Board Certification). It is designed to cultivate genetic counselors as high-level medical professionals that can work together with patients and families with an understanding of their position, and who have excellent communication skills and the latest knowledge on genomes to provide genetic counseling. Lectures are conducted in partnership with genetic medicine and various clinical departments, as well as hospitals and other research departments. Our program has been accredited for its professional development program by the Japanese Board of Genetic Counseling (jointly established by the Japan Society of Human Genetics and the Japanese Society for Genetic Counseling). This course is designed mainly for Japanese students, and are taught only in Japanese.

(4) One-Year Course to train Physicians and Dentists for Clinical Research
Course Features
This course is designed mainly for Japanese students, and are taught only in Japanese.

(5) International Course of “Public Health Science for Human Security”
Course Features
After the cold was ceased in the early 1990's, the concept of “Human Security” has become the primary common concern of international society. The new concept addresses the issues of security of “people”, instead of “nations”, such
as illnesses, disasters, poverty, conflicts and so forth. Particularly in
developing countries such as some nations in Asia, people’s lives and dignity
have been threatened by diseases and injuries which are basically not curable
because of poverty, natural disasters, poor environmental hygiene,
malnutrition and so on. In addition, epidemics and environmental pollution
jeopardize human security by crossing border perspectives based on
interdisciplinary views and scientific knowledge.
The International Course of “Public Health Science for Human Security” is
designed to develop students’ comprehension of the closely related factors
which affect peoples’ lives and also their ability to produce solutions, by
integrating the latest knowledge of medical science and international health
with the method of the humanities and social sciences. The course further aims
to nurture researchers and public health leaders in international society who
will contribute to the realization of human security by taking leadership in
solving security problems in public health.
This course is based on the “International Post-Graduate in Human Security,”
and is conducted in collaboration with three other graduate schools
(Agricultural Science, International Cultural Studies and Environmental
Studies), from among which students may select elective courses. All elective
and obligatory courses are lectured in English.