HOKKAIDO UNIVERSITY GRADUATE SCHOOL OF HEALTH SCIENCES

STUDENT HANDBOOK

April 2023



Graduate School of Health Sciences Admissions Policy

Revised: May 19, 2022 Graduate School of Health Sciences Faculty Council

Our Vision

At the Graduate School of Health Sciences, we aim to produce advanced healthcare professionals and healthcare instructors who possess cutting-edge knowledge and practical technique.

We are also committed to developing advanced healthcare professionals, educators and researchers who can forge the health sciences of the next generation.

Through the provision of education, we strive to produce quality graduates who will play leading roles in global healthcare research across disciplines.

Educational Objectives

To address the growing demand for health sciences from healthcare and society, the Graduate School of Health Sciences has determined that the Graduate School produce advanced healthcare professionals who improve their expert skills and knowledge gained from undergraduate education and work experience, develop advanced and professional decision-making skills and practical skills in medical technology and play a key role in the evidence-based advancement in healthcare sciences as well as the educators and researchers who undertake a leadership role in healthcare sciences research.

Students We Are Seeking:

In the Graduate School of Health Sciences, we seek students who:

1) Enhance their expertise in health sciences and aim for academic development through the integration of and collaboration between various disciplines.

We seek to identify not only the students with undergraduate education in healthcare but also with diversified academic backgrounds regardless of region, culture and nationality.

2) Demonstrate a drive to learn, academic skills, creative mind, logical thinking and leadership which are vital for human resources development in accord with the aforementioned "Our Vision".

Basic Admissions Policy

Master's Degree Programs (Home Student/Working Adult/Overseas Student)

A. Home Student/Working Adult applicants shall be holistically screened through a set of a written admissions exam, an interview and an application document review.

B. Overseas Student applications shall be screened with a comprehensive result of an interview and an application document review.

Admissions Slots, Assessment Methods, Desired Applicants and Levels of Significance applied to the Master's Degree Program Admissions

The below table describes how the "Students We Are Seeking" 1) and 2) factors are associated with, and how much they are weighed by the "Assessment Methods".

Admissions Slot	Assessment Method	Students We Are Seeking			
Admissions Slot		1)	2)		
	Specialized subject exam	0	O		
Home Student	Language exam	O	0		
Working Adult	Interview	0	Ô		
	Application document review	0	0		
Overease Student	Interview	O	Ø		
Overseas Student	Application document review	Ô	O		

 \odot = highly significantly weighed \bigcirc = significantly weighed

Doctoral Degree Programs (Home Student/Working Adult/Overseas Student)

- A. Home Student/Working Adult applicants shall be holistically screened through a set of an oral exam and an application document review.
- B. Overseas Student applications shall be screened with a comprehensive result of an application document review.

Admissions Slots, Assessment Methods, Desired Applicants and Levels of Significance applied to the Doctoral Degree Program Admissions

The below table describes how the "Students We Are Seeking" 1) and 2) factors are associated with, and how much they are weighed by the "Assessment Methods".

 \odot = highly significantly weighed \bigcirc = significantly weighed

Admissions Slot	Assessment Methods	Students We Are Seeking			
Admissions Slot	Assessment Methods	1)	2)		
Home Student/Working	Oral exam	\bigcirc	\bigcirc		
Adult	Application document review	0	0		
Overseas Student	Application document review	Ô	\bigcirc		

Graduate School of Health Sciences Diploma Policy (DP)

Under Hokkaido University's four core principles (Frontier Spirit, Global Perspectives, All-Round Education and Practical Learning), the Graduate School of Health Sciences sets educational objectives to develop human resources with broad knowledge, good judgement and practical skills to deal with the advancement, interdisciplinary expansion and internationalization of science and technology adding to the basic knowledge in health sciences and sophisticated expertise.

Having the degree conferment requirements for master's and doctoral degree programs established with the concrete competence profiles set by the educational objectives, the Graduate School awards master's and doctoral degrees to those who possess the competence and pass a thesis/dissertation review as well as exams upon completion of required course credits.

Degree Conferment Requirements Applicable to the Students in the Division of Health Sciences

The Division of Health Sciences aims to produce qualified graduates as advanced healthcare professionals, instructors, educators and researchers of the next generation in health sciences as it implements health sciences research through the integration of and collaboration between various disciplines. The Graduate School confers a master's or a doctoral degree on a student who possesses the following practical skills in compliance with its educational objectives.

Upon completion of the master's degree program, students are expected to:

- Have up-to-date knowledge and sound understanding of the field of health sciences;
- Possess essential skills for researchers in the field of health sciences to implement research and make an ethical judgement;
- Show a methodical mind requisite in health sciences research;
- Demonstrate the judgement on the validity of research results in the field of health sciences;
- Have the competence to study the significance of research results in the field of health sciences;
- Leverage communication skills to discuss with health sciences researchers and those from other disciplines;
- Exhibit implementation skills which an advanced health science professional ought to have.

Upon completion of the doctoral degree program, students are expected to:

- Have up-to-date knowledge and an in-depth understanding of the field of health sciences;
- Possess advanced essential skills for researchers in the field of health sciences to implement research and make an ethical judgement;
- Show competency to find research issues in the field of health sciences;
- Use insight and a flexible mindset to solve challenging problems in the field of health sciences;
- Demonstrate planning, coordination and leadership skills which are essential to the research and development in health sciences; and
- Leverage communication skills to discuss with health sciences researchers and those from other disciplines in the global community

Graduate School of Health Sciences Curriculum Policy (CP)

The Division of Health Sciences in the Graduate School of Health Sciences offers highly specialized courses in the set major fields of study and establishes cross-disciplinary/interdisciplinary courses with the aim of developing human resources with the skills as provided in its Diploma Policy. It designs and implements the curriculum as below under a research supervision system providing more than one supervising faculty member per student.

In order to assure high-quality education, the Graduate School encourages faculty to take part in faculty training designed to raise the teaching quality of the faculty under the FD committee's schemes. Through the activities of the Academic Affairs Committee and the Students' Committee, the Graduate School implements education assessment to further its continuing institutional reform providing student academic support/career counseling services and conducting education system assessment.

Learning Outcome Assessment Policy

I Academic Assessment Criteria

- In keeping with the "specific skills expected of human resources we develop" which the degree conferment requirements of the Division of Health Sciences elaborate in the Diploma Policy of the Graduate School, the academic assessment shall be conducted against set learning objectives for each course to measure course enrollees' achievement levels of learning outcomes.
- 2. The Division shall not provide a suggested grade distribution for each course.
- 3. Pass-fail grading can be applied to the academic assessment only when the class format of the course is experiment, practical training or research.
- 4. Academic Assessment Advisory Committee shall examine the adequacy of the learning objectives for each course and the academic assessment results achieved against those objectives every semester, then request the faculty in charge to review the learning objectives if necessary.

II Academic Assessment Methods

- 1. The academic assessment shall be conducted using exam scores, marks on reports and presentation scores as well as the student's levels of proactive learning approach and engagement in class.
- 2. Record of class attendance will not be simply converted into numeric values and used in the assessment.
- 3. Faculty in charge of the course shall determine the specific assessment methods.

In the master's degree programs, the Division of Health Sciences shall:

- Offer students advanced and core "Division of Health Sciences Common Foundation Courses" to acquire knowledge and technical skills to deal with a wide range of fields in health sciences;

- Offer students necessary courses to develop expertise and practical skills relevant to the fields of health sciences;

- Offer students the courses to acquire knowledge, technical skills and implementation skills to contribute globally to the field of health sciences;

- Establish a research supervision system which appoints a chief supervisor and a sub-chief supervisor(s) for each student by the end of the first year of the degree program;

- Hold a mid-term thesis presentation for master's theses and research papers where faculty other than the supervisors can advise on theses in the first half of the second year of master's degree programs to help students develop quality research projects; and

- Provide students with TA job opportunities to improve their teaching skills which they can apply to a variety of careers.

In the doctoral degree programs, the Division of Health Sciences shall:

- Offer the Supervised Individual Research course in all major fields of study to help students carry out their research projects with the aim of acquiring problem-solving skills and learning the methods of research paper writing which are requisites of a self-organized researcher;

- Establish a research supervision system which appoints a chief supervisor and a sub-chief supervisor(s) for each student by the end of the first year of the degree program;

- Hold a mid-term dissertation presentation for doctoral dissertations where faculty other than the supervisors can advise on dissertations to help students develop quality research projects; and

- Provide students with TA/RA job opportunities to step up their teaching skills and project implementation skills which they can apply to the professions in university settings or the research and development field in health sciences.

Hokkaido University Graduate School of Health Sciences Rules

April 1, 2008 HU Doc No. 85

Chapter 1 General Provisions

(Purpose)

Article 1 These regulations prescribe necessary matters with regard to the curriculum of the Graduate School of Health Sciences (hereinafter referred to as "Graduate School") in accordance with the provisions in Article 27-3, Paragraph 4 of the *National University Corporation Hokkaido University Organizational Regulations* (HU Doc. No. 31 of 2004).

(Objective)

Article 2 The Graduate School aims to develop highly specialized professionals with significant expertise in health sciences, capacities for judgement and ethical standards as well as practical skills in the latest healthcare technologies, and educators and researchers who can conduct unique research and development in health sciences through basic and applied healthcare education and research.

Chapter 2 Division, Degree Programs and Enrollment Categories

(Division)

Article 3 The following division shall be established in the Graduate School. Division of Health Sciences

(Program)

Article 4 The Graduate School shall provide doctoral degree programs.

(Enrollment Category)

Article 5 The Division of Health Sciences consists of the following streams in one of which students shall be enrolled.

Health Sciences

Nursing

Chapter 3 Admission, re-admission, transfer and affiliation change

(Admission)

Article 6-1 Those who are eligible for admission to study in a master's degree program prescribed in Article 4, Paragraph 5 of the *Hokkaido University General Regulations for Graduate Studies* (HU Doc. No. 3 of 1954; hereinafter referred to as "General Regulations") (the above program shall be hereinafter referred to as "master's degree program") shall fall under any of the items in Article 10, Paragraph 1 of the General Regulations. And those who are eligible for admission to study in the latter period of the doctoral program prescribed in Article 4, Paragraph 5 of the General Regulations (hereinafter referred to as "doctoral degree program" shall fall under any of the items in Article 10, Paragraph 2.

Article 6-2 The President of Hokkaido University shall, after deliberation by the Faculty Council, grant admission to those who fall under any of the provisions in the preceding paragraph and have passed the selection process conducted by the Graduate School.

(Re-admission and Transfer)

Article 7-1 When a student who falls under any of the items in Article 13 of the General Regulations applies for re-admission or a transfer to the Graduate School, the President may grant permission after deliberation by the Faculty Council upon screening.

(Affiliation Change)

Article 7-2 When a student who falls under Item 1 in Article 13-2 of the General Regulations applies for an affiliation change to the Graduate School, the Dean of the Graduate School may grant permission after deliberation by the Faculty Council upon screening.

Chapter 4 Courses, Program Completion Requirements, Course Taking Policy and Examinations

(Courses and credits)

Article 8 The courses and credits offered by the Division of Health Sciences are listed in the Appended Table.

(Basis for Credit Calculation)

Article 9-1 In terms of the number of credits for each course, given the fact that a one-credit course is designed to require 45 hours of study as a standard, the one-credit course shall consist of 15 hours of lectures or seminars in consideration of the educational benefits from the classes and the study outside class hours which shall be determined by the type of teaching methods.

Article 9-2 Notwithstanding the provisions of the preceding paragraph, the number of credits for the courses which involve dissertation writing or research required for program completion shall be determined with the necessary study to complete those program requirements considered.

(Requirements for program completion)

Article 10-1 The requirements for the completion of a master's degree program are: to have been enrolled in a graduate school for two years or more; to have attained 30 credits or more; and, having had necessary research supervision, to pass the review for a master's degree thesis or research outcomes on a specific topic as well as exams conducted by the Graduate School according to the purposes of the master's degree program. The enrollment period of one year or more in a graduate school shall be however deemed sufficient for those who have demonstrated outstanding research achievements.

Article 10-2 With regard to the master's degree program completion requirements for the students whose major field of study (kamoku-gun) is either Advanced Public Health Nursing, Advanced Midwifery or Advanced Practice Nursing prescribed in the Master's Degree Program in Nursing in the Appended Table, the provisions in the preceding paragraph and the Paragraph 1 of the next Article shall apply with a requirement of "36 credits" replacing "30 credits" prescribed in the preceding Paragraph and the Paragraph 1 of the next Article shall apply with a of the next Article.

Article 10-3 When deemed educationally beneficial for students, the Graduate School may designate the courses provided by the divisions of kennkyu-ka, gakuin and kyouiku-bu (referred to as "Graduate Schools" in Paragraph 5 and Paragraph 5 of the next Article) in Hokkaido University (referred to as "HU" in Paragraph 5, the Paragraph 5 of the next Article and Article 15), the undergraduate courses or the Special Cross-Disciplinary Courses prescribed in the *Hokkaido University Special Cross-Disciplinary Courses Rules* (HU Doc. 50 of 2019) to be taken by the students and credit students with master's course credits.

Article 10-4 When deemed educationally beneficial for students, the Graduate School may designate the courses prescribed in the *Hokkaido University Graduate School Regulations Concerning Inter-Graduate School Classes* (HU Doc. No. 24 of 2000) (referred to as "Inter-Graduate School Courses" in Paragraph 4 of the next Article) to be taken by the students and credit students with master's course credits.

Article 10-5 When deemed educationally beneficial for students, the Graduate School may approve its students to receive necessary research supervision prescribed in Paragraph 1 at other Graduate Schools of HU for a period not exceeding one year.

Article 11-1 The requirements for the completion of a doctoral degree program are: "to have been enrolled in a graduate school for five years or more (including the two years or more of the master's degree program period, or the two years enrollment period for the master's degree program if the person has completed the program)"; to have attained 30 credits or more in the master's degree program and 12 credits or more in the doctoral degree program; and, having had necessary research supervision, to pass the review for a doctoral degree dissertation and exams conducted by the Graduate School. The enrollment period of three years or more in a graduate school (including the two years or more of the master's degree program period, or the two years enrollment period for the master's degree program if the person has completed the program) shall be however deemed sufficient for those who have demonstrated outstanding research achievements.

Article 11-2

With regard to the doctoral degree program completion requirements for the students who have completed a master's degree program after being enrolled for the period stipulated in the provisions under the Paragraph

1 proviso in the preceding Article, the provisions in the preceding paragraph shall apply with a requirement of: "to have been enrolled for the period of master's degree program plus additional three years" replacing "to have been enrolled in a graduate school for five years or more (including the two years or more of the master's degree program period, or the two years enrollment period for the master's degree program if the person has completed the program)" in the preceding paragraph; and a requirement "three years (including the enrollment period of a master's degree program) replacing "the enrollment period of three years or more in a graduate school (including the two years or more of the master's degree program period, or the two years enrollment period for the master's degree program if the person has completed the program)" in the preceding paragraph.

Article 11-3 Notwithstanding the provisions of the preceding two paragraphs, under the provisions of Article 156 of the Ordinance for Enforcement of the School Education Act (Ordinance of the Ministry of Education No. 11 of 1947), when persons who are found to have academic competence equivalent or superior to the holders of a master's degree or professional degree in terms of admissions eligibility or those who completed a professional degree program enrolled in a doctoral degree program (the latter three years of the graduate program), the doctoral degree program completion requirements shall be: to have been enrolled in a graduate school for three years or more (two years for those who have completed a law school program prescribed in Article 18, Paragraph 1 of the *Standards for Establishment of Professional Graduate Schools* (Ordinance of the Ministry of Education, Culture, Sports, Science and Technology, No. 16 of 2003)); to have attained 12 credits or more; and, having had necessary research supervision, to pass the review for a doctoral degree dissertation and exams conducted by the Graduate School. The enrollment period of one year or more, however, shall be deemed sufficient for those who have demonstrated outstanding research achievements (for those who completed a professional degree with the standard duration of one year or more but less than two years, the number of years equal to, or longer than, the solution to the calculation 'three years subtracted by the applicable standard duration (one year or more but less than two years)' applies).

Article 11-4 When deemed educationally beneficial for students, the Graduate School may designate some of the Inter-Graduate School Courses to be taken by the students and credit students with doctoral course credits as part of the requirements stipulated in Paragraph 1.

Article 11-5 When deemed educationally beneficial for students, the Graduate School may confirm students to have research supervision at HU's Graduate Schools as prescribed in Paragraph 1. Master's students may however be under such research supervision for no more than one year.

(Extended Enrollment)

Article 12-1

Upon application by a working student for extended enrollment for a fixed period beyond the standard duration to take up necessary courses and complete a graduate program as organized in advance in order to balance work and study commitments, the Graduate School may give the student its approval of the organized enrollment plan (referred to as "Extended Enrollment" in the next Paragraph) after deliberation by the Faculty Council.

Article 12-2 In addition to what is prescribed regarding the Extended Enrollment in Article 4-2 of the General Regulations, the Dean of the Graduate School shall separately determine necessary matters at the Graduate School after deliberation by the Faculty Council.

(Enrollment in the Graduate Schools of Other Universities)

Article 13-1 When deemed educationally beneficial, students may, upon deliberation by the Faculty Council, take courses at the graduate schools of other universities, overseas graduate schools or United Nations University which was founded by the resolution of the General Assembly of the United Nations on December 11, 1972 as prescribed in Article 1, Paragraph 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) (referred to as "United Nations University" in Paragraph 1 of the next Article and Article 15, Paragraph 1).

Article 13-2 The credits for the courses taken or the academic achievement which students have attained under the provisions of the preceding Paragraph shall be deemed part of, but not exceeding 15 credits in total for the whole duration of master's and doctoral degree programs, the required credits under the provisions of Article 10 and 11.

Article 13-3 When deemed educationally beneficial, students may, upon deliberation by the Faculty Council, have necessary research supervision at the graduate schools of other universities, research institutes or graduate schools/research institutes abroad. Master's students may however be under such research supervision for not exceeding one year.

(Credits Attained at the Graduate Schools of Other Universities During the Leave of Absence)

Article 14-1 When deemed educationally beneficial for students, upon deliberation by the Faculty Council, the Graduate School shall count the credits attained at a graduate school of another university and the academic achievement attained at an overseas graduate school or United Nations University during their leave of absence as the credits attained by taking the courses offered by the Graduate School.

Article 14-2 The total number of credits attained under the provisions in the preceding paragraph and Paragraph 2 of the preceding Article shall not exceed 15 for the full duration of master's and doctoral degree programs.

(Approval of Credits Earned Before Enrollment and Number of Years Attended)

Article 15-1 When deemed educationally beneficial for students, upon deliberation by the Faculty Council, the Graduate School shall count the credits of a newly enrolled student to the Graduate School attained before enrollment at a graduate school in HU or a graduate school of another university (including the credits for the courses enrolled by the student who was a credit auditor as prescribed in Article 15 of the *"Standards for Establishment of Graduate Schools"* (Ordinance of the Ministry of Education, Culture, Sports, Science and Technology, No. 28 of 1974), or the academic achievement attained at an overseas graduate school or United Nations University, as the credits attained through courses at the Graduate School. The number of

approvable credits attained at institutes other than HU shall not exceed 15 for the full duration of master's and doctoral degree programs.

Article 15-2 The total number of approvable credits attained under the provisions in the preceding paragraph, Article 13 Paragraph 2 and Paragraph 2 of the preceding Article shall not exceed 20 for the full duration of master's and doctoral degree programs.

Article 15-3 When the Graduate School counts the credits or academic achievement attained before enrollment (those attained after being qualified for admission to graduate study (defined in Article 102, Paragraph 1 of the *School Education Act*, Act No. 26 of 1947) as the credits attained at the Graduate School under the provisions in Paragraph 1, and it deems the said credits or academic achievement satisfying partial completion of a master's degree program of the Graduate School, the time spent for attaining the credits in consideration with the number of attained credits shall be deemed a period of attendance at the Graduate School with the length determined by the Graduate School for up to 1 year. In this case, however, the student shall be enrolled in the concerned master's program for at least one year.

(Course Enrollment Methods)

Article 16 The Dean of the Graduate School shall determine the details of course enrollment methods after deliberation by the Faculty Council.

(Examination)

Article 17 Examinations for courses (hereinafter referred to as "Course Exams") shall be conducted at the end of the semester after the completion of all classes offered for each course. Ad hoc Course Exams may nevertheless take place upon deliberation of the Faculty Council under unavoidable circumstances.

(Academic Assessment)

Article 18 Course Exams shall be graded on a five-point grading scale of Excellent, Very Good, Good, Fair, and Fail in which Excellent, Very Good, Good, and Fair are passing grades.

(Thesis/Dissertation Maximum Submission Date)

Article 19 Theses and dissertations must be submitted by the due date specified by the Graduate School.

Chapter 5 Program Completion Approval

(Program Completion Approval)

Article 20 The President of HU shall approve the master's and doctoral program completion for students who meet program completion requirements upon deliberation by the Faculty Council.

Chapter 6 Special Auditor, Special Research Student and Overseas Student

(Special Auditor)

Article 21-1 The Graduate School shall, after deliberation of the Faculty Council, admit students from the graduate schools of other universities and from overseas graduate schools who intend to enroll in particular courses and attain credits at the Graduate School as special auditors.

Article 21-2 Admissions shall be on a semester-by-semester or year-by-year basis for the special auditors.

Article 21-3 Regarding the implementation of Course Exams and academic assessment, the provisions in Articles 17 and 18 shall apply mutatis mutandis to the special auditors.

(Special Research Student)

Article 22 The Graduate School shall, after deliberation of the Faculty Council, admit students from the graduate schools of other universities and from overseas graduate schools who intend to have research supervision at the Graduate School as special research students.

Article 23 Deleted

(Overseas Student)

Article 24 The President of HU shall, after deliberation of the Faculty Council, approve the admissions of overseas students under the provisions in Article 47 of the General Regulations.

Supplementary Provisions These Rules come into force on April 1, 2008.

Supplementary Provisions (HU Doc. No.103, April 1, 2010)

1 These Rules come into force on April 1, 2010.

2 Notwithstanding the provisions of the revised Appended Table, the provisions then in force shall remain applicable to the students who are enrolled in the graduate schools of HU as of March 31, 2010 (hereinafter in this Paragraph referred to as "Enrolled Students") and those who enroll in one of the program years to which the Enrolled Students belong on or after April 1 of the same year.

Supplementary Provisions (HU Doc. No.129, April 1, 2011)

1 These Rules come into force on April 1, 2011.

2 Notwithstanding the provisions of the revised Appended Table, the provisions then in force shall remain applicable to the students who are enrolled in the graduate schools of HU as of March 31, 2011 (hereinafter in this Paragraph referred to as "Enrolled Students") and those who enroll in one of the program years to which the Enrolled Students belong on or after April 1 of the same year.

Supplementary Provisions (HU Doc. No. 70, April 1, 2013)

1 These Rules come into force on April 1, 2013.

2 Notwithstanding the provisions of the revised Appended Table, the provisions then in force shall remain applicable to the students who are enrolled in the graduate schools of HU as of March 31, 2013 (hereinafter in this Paragraph referred to as "Enrolled Students") and those who enroll in one of the program years to which the Enrolled Students belong on or after April 1 of the same year.

Supplementary Provisions (HU Doc. No. 133, April 1, 2014)

1 These Rules come into force on April 1, 2014.

2 Notwithstanding the provisions of the revised Article 10, Paragraph 2 and the revised Appended Table, the provisions then in force shall remain applicable to the students who are enrolled in the graduate schools of HU as of March 31, 2014 (hereinafter in this Paragraph referred to as "Enrolled Students") and those who enroll in one of the program years to which the Enrolled Students belong on or after April 1 of the same year.

Supplementary Provisions (HU Doc. No. 141, April 1, 2015)

1 These Rules come into force on April 1, 2015.

2 Notwithstanding the provisions of the revised Appended Table, the provisions then in force shall remain applicable to the students who are enrolled in the graduate schools of HU as of March 31, 2015 (hereinafter in this Paragraph referred to as "Enrolled Students") and those who enroll in one of the program years to which the Enrolled Students belong on or after April 1 of the same year.

Supplementary Provisions (HU Doc. No. 101, April 1, 2016)

1 These Rules come into force on April 1, 2016.

2 Notwithstanding the provisions of the revised *Hokkaido University Graduate School of Health Sciences Rules*, the provisions then in force shall remain applicable to the students who are enrolled in the graduate schools of HU as of March 31, 2016 (hereinafter in this Paragraph referred to as "Enrolled Students") and those who enroll in one of the program years to which the Enrolled Students belong on or after April 1 of the same year.

Supplementary Provisions (HU Doc. No. 123, April 1, 2017) These Rules come into force on April 1, 2017.

Supplementary Provisions (HU Doc. No. 76, April 1, 2018)

1 These Rules come into force on April 1, 2018.

2 Notwithstanding the provisions of the revised Article 10, Paragraph 2 and the revised Appended Table, the provisions then in force shall remain applicable to the students who are enrolled in the graduate schools of HU as of March 31, 2018 (hereinafter in this Paragraph referred to as "Enrolled Students") and those who enroll in one of the program years to which the Enrolled Students belong on or after April 1 of the same year.

Supplementary Provisions (HU Doc. No. 107, April 1, 2019) These Rules come into force on April 1, 2019)

Supplementary Provisions (HU Doc. No. 91, April 1, 2020)

1 These Rules come into force on April 1, 2020.

2 Notwithstanding the provisions of the revised Appended Table, the provisions then in force shall remain applicable to the students who are enrolled in the graduate schools of HU as of March 31, 2020 (hereinafter in this Paragraph referred to as "Enrolled Students") and those who enroll in one of the program years to which the Enrolled Students belong on or after April 1 of the same year.

Supplementary Provisions (HU Doc. No. 79, April 1, 2021) These Rules come into force on April 1, 2021

Supplementary Provisions (HU Doc. No. 98, April 1, 2022)

1 These Rules come into force on April 1, 2022.

2 Notwithstanding the provisions of the revised Appended Table, the provisions then in force shall remain applicable to the students who are enrolled in the graduate schools of HU as of March 31, 2022 (hereinafter in this Paragraph referred to as "Enrolled Students") and those who enroll in one of the program years to which the Enrolled Students belong on or after April 1 of the same year.

Supplementary Provisions (HU Doc. No. __, April 1, 2023)

1 These Rules come into force on April 1, 2023.

2 Notwithstanding the provisions of the revised Appended Table, the provisions then in force shall remain applicable to the students who are enrolled in the graduate schools of HU as of March 31, 2023 (hereinafter in this Paragraph referred to as "Enrolled Students") and those who enroll in one of the program years to which the Enrolled Students belong on or after April 1 of the same year.

Appended Table (Quoted in Article 8)

Master's Degree Programs

Course Type	Course Name	Credit	Remarks
Required Course	Risk Management	1	The Degree requires a minimum
Required Elective	Health Care Ethics	1	of 8 credits including 1 credit
Course A	Nursing Ethics	2	from the Required Courses, 1 or
Required Elective	Experimental Methodology	2	more credits from the Required
Course B	Case Study Methods in Health Sciences	2	Elective Courses A in addition to
	Methods of Qualitative Research	2	2 credits from the Required
	Research Strategies in Health Sciences	2	Elective Courses B.
	Methodology in Nursing Research	2	
Elective Course	Statistical Practice for Healthcare	2	
	Research		
	Advanced Laboratory Medicine	2	
	Oncology and Regenerative Medicine	2	
	Functional Anatomy	2	

Division of Health Sciences Common Foundation Courses

Course Type	Course Name	Credit	Remarks
	Health Sciences	2	
	Sports and Physical Fitness Science	2	
	Physiological Functions of Foods	2	
	Nutraceutical Pharmacodynamics	2	
	Team Approach to Health Care	2	

Master's Degree Program in Health Sciences

Maj	jor Field of Study	Course	Credit	Pomorko
and	l Course Type	Course	Credit	Remarks
ing	Required	Advanced Lecture on Medical Physics	2	The students in the Master's
leel	Elective Course	and Biomedical Engineering		Degree Program of Health
Engineering		Quantum Life Medical Science	2	Sciences must select one major
Р		Seminar on Quantum Life Medical	2	field of study from "Biomedical
e ar		Science		Science and Engineering",
enc		Advanced Lecture on Diagnostic	2	"Medical Laboratory Science",
Sci		Imaging		"Rehabilitation Science" and
Biomedical Science and		Seminar on Diagnostic Imaging	2	"Health Research Studies". The
med		Clinical Imaging Technology	2	degree requires a minimum of 14
Biol		Seminar on Clinical Imaging Technology	2	credits including a set of a
	Required	Comprehensive Assessment of	2	Lecture (2 credits) and a
	Elective Course	Cardiovascular Function		Seminar (2 credits) from your
		Seminar on Comprehensive	2	major field of study in addition to
		Assessment of Cardiovascular Function		"Supervised Individual Study in
		Blood Regulation and Regeneration	2	Health Sciences" (10 credits).
ence		Seminar on Blood Regulation and	2	
Scie		Regeneration		
ory		Analytical Chemistry for Metabolic	2	
orat		Research		
Lab		Seminar on Analytical Chemistry for	2	
cal		Metabolic Research		
Medical Laboratory Science		Advanced Lecture on Infection and	2	
2		Stress Response		
		Seminar on Infection and Stress	2	
		Response		
		Immunopathogenesis	2	
		Seminar on Immunopathogenesis	2	
u	Required	Motor Control	2	
ilitati	Elective Course	Seminar on Motor Control	2	
Rehabilitation Science		Management of Musculoskeletal	2	
Re		System Disorders		

Maj	jor Field of Study	Course	Credit	Remarks
and	I Course Type		orean	
		Seminar on Management of	2	
		Musculoskeletal System Disorders		
		Occupational Adaptation for	2	
		Developmental Disabilities and		
		Neuropsychological Disabilities		
		Seminar on Occupational Adaptation for	2	
		Developmental Disabilities and		
		Neuropsychological Disabilities		
		Biomedical System Control Science	2	
		Biomedical System Control Science	2	
		Seminar		
		Rehabilitation for Patients with Mental	2	
		Disorders		
		Seminar on Rehabilitation for Patients	2	
		with Mental Disorders		
		Fundamental Research for Functional	2	
		Biology		
		Seminar on Fundamental Research for	2	
		Functional Biology		
		Advanced Sports Physical Therapy	2	
		Sports Physical Therapy Seminar	2	
	Required Elective Course	Environmental Health Sciences	2	
		Exercise on Environmental Health	2	
		Sciences		
dies		Human Ecology	2	
Stu		Seminar on Human Ecology	2	
arch		Advanced Metrology of Functional	2	
sea		Information		
Health Research Studies		Seminar on Metrology of Functional	2	
ealt		Information		
Ť		Health Information Science	2	
		Seminar on Health Information Science	2	
		Cognitive Neurology	2	
		Seminar on Cognitive Neurology	2	
Sup	pervised	Health Sciences	10	
-	ividual Study			

Master's Degree Program in Nursing

	ajor Field of Study	Course	Credit	Remarks
а	nd Course Type	Issues and Concepts in Nursing	2	1 The students in the Master's
	Required Elective Course	Administration	2	Degree Program of Nursing must
	Elective Course		2	select one major field of study
	-	Seminar on Nursing Administration	2	from "Nursing Science",
		Clinical Nursing Skills	2	"Advanced Public Health
		Seminar on Clinical Nursing Skills		Nursing", "Advanced Midwifery"
		Primary Care Nursing and Health	2	and "Advanced Practice
		System Management	0	Nursing".
		Seminar on Primary Care Nursing and	2	nuising .
		Health System Management	-	2 When you select "Nursing
		Oncology Nursing	2	Science", your degree requires a
		Seminar on Oncology Nursing	2	minimum of 14 credits including
		Advanced Community Health Nursing	2	a set of a Lecture (2 credits) and
		Seminar on Community Health Nursing	2	a Seminar (2 credits) from your
		Issues and Concepts in Nursing	2	major field of study (Nursing
		Education		Science) in addition to
		Seminar on Nursing Education	2	"Supervised Individual Study in
		Gerontological Nursing	2	Nursing Science" (10 credits).
nce		Seminar on Gerontological Nursing	2	
Nursing Science		Cognitive Nursing Science	2	3 When you select "Advanced
р С		Seminar on Cognitive Nursing Science	2	Public Health Nursing", your
ursii		Psychiatric, Neuroscientific and Mental	2	degree requires a minimum of 18
ź		Health Nursing		credits including 10 credits from
		Seminar on Psychiatric, Neuroscientific	2	the Required Courses and 8
		and Mental Health Nursing		credits from "Supervised
		Advanced maternal and child nursing for	2	Individual Study in Nursing
		global health		Practice".
		Seminar on maternal and child nursing	2	
		for global health		4 When you select "Advanced
		Maternal and Child Nursing Science	2	Midwifery", your degree requires
		Seminar on Maternal and Child Nursing	2	a minimum of 18 credits
		Science		including 10 credits from the
		Preventive Nursing	2	Required Courses and 8 credits
	Seminar or	Seminar on Preventive Nursing	2	from "Supervised Individual
		Global Health Nursing	2	Study in Nursing Practice".
		Seminar on Global Health Nursing	2	Study in Nurshiy Flacilice .
		Advanced Nursing Informatics	2	5 When you select "Advanced
				Practice Nursing", your degree
		Seminar on Nursing Informatics	2	requires a minimum of 20 credits

Ма	jor Field of Study	0	0	
a	nd Course Type	Course	Credit	Remarks
	Required	Advanced Public Health Nursing	2	including 12 credits from the
	Course	Seminar on Public Health Nursing	2	Required Courses and 8 credits
		Practicum for Public Health Nursing	6	from "Supervised Individual
	Elective Course	Principles of Public Health Nursing	2	Study in Nursing Practice".
		Public Health Nursing Activities	2	
g		Health Promotion for Community	2	
rsin		Occupational Health Nursing	1	
Nu		Health Risk Management	2	
alth		Health and Welfare Administration	2	
C He		Seminar on Public Health Nursing	3	
Advanced Public Health Nursing		Activities I		
ЧÞ		Seminar on Public Health Nursing	2	
ince		Activities II		
Ava		Public Health Nursing Management	2	
4		Seminar on Public Health Nursing	2	
		Epidemiology		
		Social Security and Health Policy	2	
		Public Health Nursing Practice I	2	
		Public Health Nursing Practice II	2	
		Public Health Nursing Practice III	1	
	Required	Advanced Midwifery	2	
	Course	Seminar on Advanced Midwifery	2	
		Seminar on Clinical Practice in	6	
		Midwifery		
	Elective Course	Advanced Women's Health	2	
		Advanced Reproductive Health	2	
		Advanced Midwifery in Human	2	
ery		Relationship		
Advanced Midwifery		Advanced Diagnostic Methodology and	4	
I Mie		Applied Technology in Midwifery		
cec		Seminar on Diagnostic Methodology	2	
dvar		and Applied Technology in Midwifery I		
Ac		Seminar on Diagnostic Methodology	2	
		and Applied Technology in Midwifery II		
		Advanced Child Health Care	2	
		Advanced Midwifery on Maternal and	2	
		Child for Global Health		
		Midwifery Management	2	
	r.	Clinical Midwifery Practice I	7	
		Clinical Midwifery Practice II	2	

	ijor Field of Study nd Course Type	Course	Credit	Remarks
		Clinical Midwifery Practice III	2	
	Required	Oncology Nursing I	2	
	Course	Oncology Nursing II	2	
		Advanced Seminar on Oncology	2	
		Nursing I		
		Advanced Seminar on Oncology	2	
		Nursing II		
Advanced Practice Nursing		Seminar on Oncology Nursing I	2	
Nur		Seminar on Oncology Nursing II	2	
tice	Elective Course	Advanced Lecture on Physical	2	
rac		Assessment		
Ped P		Advanced Lecture on Pathophysiology	2	
ance		Advanced Lecture on Clinical	2	
Adv		Pharmacology		
		Advanced Lecture on Consultation	2	
		Advanced Clinical Oncology	2	
		Advanced Nursing Practice I	2	
		Advanced Nursing Practice II	3	
		Advanced Nursing Practice III	3	
		Advanced Nursing Practice IV	2	
Sup	pervised	Nursing Science	10	
Ind	ividual Study	Nursing Practice	8	

Doctoral Degree Programs

Division of Health Sciences Common Courses

Major Field of Study and Course Type	Course	Credit	Remarks
Required Course	Advanced Study of Medical Management	2	

Doctoral Degree Program in Health Sciences

-	jor Field of Study Course Type	Course	Credit	Remarks
=	Required	Advanced Study of Medical Imaging	2	The students in the Doctoral
Advanced Medical Sciences	Elective Course	Science	2	Degree Program in Health
d Me		Advanced Seminar on Medical Imaging	2	Sciences must select one major
nceo		Science	2	field of study from "Advanced
dva		Advanced Study of Biomedical Science	2	Medical Sciences" and
4		and Technology	2	"Comprehensive Health

-	or Field of Study I Course Type	Course	Credit	Remarks
		Advanced Seminar on Biomedical Science and Technology	2	Sciences". The degree requires a minimum of 10 credits
		Advanced Study of Charged Particle Therapy	2	including a set of a Lecture (2 credits) and a Seminar (2
		Advanced Seminar on Charged Particle Therapy	2	credits) under the same name (covering the same course topic)
ces	Required Elective Course	Advanced Study of Rehabilitation Science	2	from their major field of study in addition to "Supervised
h Scien		Advanced Seminar on Rehabilitation Science	2	Individual Research in Health Sciences" (6 credits).
ealt		Advanced Study of Health Evaluation	2	
nsive H		Advanced Seminar on Health Evaluation	2	
Comprehensive Health Sciences		Advanced Study of Health Science Management	2	
Col		Advanced Seminar on Health Science Management	2	
Ind	Supervised lividual Research	Health Sciences	6	

Doctoral Degree Program in Nursing Sciences

	jor Field of Study Course Type	Course	Credit	Remarks
	Required Elective Course	Advanced Study of Fundamental Nursing Science	2	The degree requires the students in the Doctoral Degree
		Advanced Seminar on Fundamental Nursing Science	2	Program in Nursing to study a minimum of 10 credits including
S		Advanced Study of Clinical Nursing Science	2	a set of a Lecture (2 credits) and a Seminar (2 credits) under the
Sciences		Advanced Seminar on Clinical Nursing Science	2	same name (covering the same course topic) from the Required
Nursing 8		Advanced Study of Social Health and Nursing Science	2	Elective Courses in addition to "Supervised Individual Research
z		Advanced Seminar on Social Health and Nursing Science	2	in Nursing Sciences" (6 credits).
		Advanced Study of Women's Health and Nursing Science	2	
		Advanced Seminar on Women's Health and Nursing Science	2	
Inc	Supervised lividual Research	Nursing Sciences	6	

MASTER'S DEGREE PROGRAMS

Hokkaido University Graduate School of Health Sciences Master's Thesis Assessment Criteria

- 1. Basic Requirements for Thesis
- Students must demonstrate that they meet the level of academic achievement, competence and quality stipulated in the *Hokkaido University Postgraduate Degree Programs Degree Awarding Principles* and the *Graduate School of Health Sciences Diploma Policy* to be conferred a master's degree. Their theses must present the attainment of the said abilities in clear and plain language.
- 2) Master's degree candidates must be the sole author of their theses. Any part of a submitted thesis by a candidate must not have infringed on the originality and ideas of research papers published or research presentations made by persons other than the thesis candidate/author.
- 3) Master's theses must not infringe on copyright and the right of publicity of persons other than the thesis candidates/authors.
- 4) Master's theses must be written based on the research conducted while abiding by the *Code of Conduct for Scientists at Hokkaido University.*
- 2. Thesis structure

The structure of the thesis should meet the following requirements.

- 1) An adequate title is given to the thesis.
- 2) The thesis discusses the research background and clarifies the research purposes.
- 3) The thesis describes the research methods which align with the research purposes.
- 4) Research results are graphically and adequately presented using such as charts, graphs and diagrams.
- 5) Discussion is generated in accordance with the research results.
- 6) The thesis appropriately draws a conclusion which answers defined research purposes.
- 7) References are cited appropriately.
- 8) The thesis covers all necessary stages above and has them appropriately chaptered.

3. Thesis content

The content of the thesis will be reviewed with the following criteria in mind. It is however up to the examination committee to decide to which criterion they give more weight.

- 1) The committee finds a level of the academic value of the concerned discipline in the thesis.
- 2) Appropriate research topics and methods are employed.
- 3) The research has been conducted upon a solid literature search, fieldwork and preceding study.
- 4) Research data essential to the research topics and methods have been collected and processed.
- 5) The process of the research project is elaborated in detail.
- 6) The thesis provides in-depth analyses and detailed interpretation of data in the figures and tables.
- 7) The gist of the argument is clear while the coherent argument is presented.
- 8) Discussions are made in an appropriate style of writing leading to firm conclusions.

Program Structure: Courses and Credits

AY2023 Admitted Master's Students

Division of Health Sciences Common Foundation Courses

			Numb	er of C	ourse	Credit	Clas	ss For	mat	
Major Field of Study	Course	Eligible Year of Course	Required	Required Elective	Elective	Not Specified	Lecture	Seminar	Experiment/p ractical	Remarks
	Risk Management	1・2	1				0			
	Health Care Ethics	1・2		1			0			
	Nursing Ethics	1・2		2			0			Complete 8 credits or more
	Experimental Methodology	1		2			0			including 1 or more credits
Courses	Case Study Methods in Health Sciences	1		2			0			from "Health Care Ethics" or
ün	Methods of Qualitative Research	1		2			0			"Nursing Ethics", 1 credit of
	Research Strategies in Health Sciences	1		2			0			"Risk Management" and 2
ion	Methodology in Nursing Research	1		2			0			credits from the research
dat	Statistical Practice for Healthcare Research	1・2			2		0			method courses (Experimental
Foundation	Advanced Laboratory Medicine	1・2			2		0			Methodology/Case Study
ц	Oncology and Regenerative Medicine	1・2			2		0			Methods in Health
Common	Functional Anatomy	1			2		0			Sciences/Methods of
Ē	Health Sciences	1・2			2		0			Qualitative Research/Research
ō	Sports and Physical Fitness Science	1・2			2		0			Strategies in Health
Ĩ	Physiological Functions of Foods	1・2			2		0			Sciences/Methods of Nursing
	Nutraceutical Pharmacodynamics	1.2			2		0			Research).
	Team Approach to Health Care	1・2			2		0			
	Total available credits from 17 courses	_	1	13	18	0		—		

Master's Degree Program in Health Sciences

	ter's Degree Program in Health Sciences		Numb	er of C	ourse	Credit	Cla	ss For		
Major Field of Study	Course	Eligible Year of Course	Required	Required Elective	Elective	Not Specified	Lecture	Seminar	Experiment/p ractical	Remarks
e	Advanced Lecture on Medical Physics and Biomedical Engineering	1 • 2		2			0			
ng D	Quantum Life Medical Science Seminar on Quantum Life Medical Science Advanced Lecture on Diagnostic Imaging Seminar on Diagnostic Imaging	1・2		2			0			
scie	Seminar on Quantum Life Medical Science	1		2				0		
ine S	Advanced Lecture on Diagnostic Imaging	1・2		2			0			
licí	Seminar on Diagnostic Imaging	1		2				0		
d E	Clinical Imaging Technology	1・2		2			\circ			
Biomedical Science and Engineering	Seminar on Clinical Imaging Technology	1		2				0		
ш	Total available credits from 7 courses		0	14	0	0		_		
D)	Comprehensive Assessment of Cardiovascular Function	1		2			\circ			
nce	Seminar on Comprehensive Assessment of Cardiovascular Function	1		2				0		
cie	Blood Regulation and Regeneration	1・2		2			0			
s /	Seminar on Blood Regulation and Regeneration	1		2				0		
to	Analytical Chemistry for Metabolic Research	1・2		2			\circ			
ora	Seminar on Analytical Chemistry for Metabolic Research	1		2				0		
Medical Laboratory Science	Advanced Lecture on Infection and Stress Response	1 • 2		2			0			
	Seminar on Infection and Stress Response	1		2				0		
lice	Immunopathogenesis	1・2		2			0			
Jec	Seminar on Immunopathogenesis	1		2				0		
2	Total available credits from 10 courses	_	0	20	0	0		_		
	Motor Control	1.2		2			0			
	Seminar on Motor Control	1		2				0		
	Management of Musculoskeletal System Disorders	1・2		2			0			Select one of the "Major Field
	Seminar on Management of Musculoskeletal System Disorders	1		2				0		of Study". Complete 2 credits
ų	Occupational Adaptation for Developmental Disabilities and	1.2		2			0			or more from "Lecture" courses
ance 1	Neuropsychological Disabilities	1.2		2			\cup			as well as 2 credits or more
Scie	Seminar on Occupational Adaptation for Developmental Disabilities and Neuropsychological Disabilities	1		2				0		from "Seminar" courses.
Rehabilitation Science	Biomedical System Control Science	1.2		2			\cap			
atio	Biomedical System Control Science Seminar	1		2			0	0		
ilit	Rehabilitation for Patients with Mental Disorder	1.2		2						
lab	Seminar on Rehabilitation for Patients with Mental Disorders	1 1		2			0	0		
Sel		1.2		2						
_	Fundamental Research for Functional Biology Seminar on Fundamental Research for Functional Biology	1		2			0			
								0		
	Advanced Sports Physical Therapy	1 • 2		2			0			
	Sports Physical Therapy Seminar	1		2 28				0		
	Total available credits from 14 courses Environmental Health Sciences	 1 · 2	0	28 2	0	0		_	<u> </u>	
							0			
lies	Exercise on Environmental Health Sciences	1		2				0		
tuc	Human Ecology	1 • 2		2			0			
Health Research Studies	Seminar on Human Ecology	1		2				$ \circ $		
arc	Advanced Metrology of Functional Information	1 • 2		2			0			
se	Seminar on Metrology of Functional Information Health Information Science	1		2				0		
Re		1 • 2		2			0			
Ē	Seminar on Health Information Science	1		2				0		
lea	Cognitive Neurology	1 • 2		2			0			
[⊥]	Seminar on Cognitive Neurology	1		2				\cup		
	Total available credits from 10 courses	- 1 · 2	0	20	0	0		0	<u> </u>	Complete the "Companying of
ed tud)	Health Sciences	1.7	10					\cup		Complete the "Supervised
Supervised Individual Study	Total available credits from 1 course	—	10	0	0	0		_		individual study in Health Sciences" course if you are in the Master's Degree Program in Health Sciences.

Master's Degree Program in Nursing

	ter's Degree Program in Nursing		Numb	er of C	ourse	Credit	Cla	ss For		
Major Field of Study	Course	Eligible Year of Course	Required	Required Elective	Elective	Not Specified	Lecture	Seminar	Experiment/p ractical	Remarks
	Issues and Concepts in Nursing Administration	1 • 2		2			0			
	Seminar on Nursing Administration	1		2				0		
	Clinical Nursing Skills	1 • 2		2			0			
	Seminar on Clinical Nursing Skills	1		2				\circ		
	Primary Care Nursing and Health System Management	1.2		2			0			
	Seminar on Primary Care Nursing and Health System Management			2				\circ		
	Oncology Nursing*	1 • 2		2			0			
	Seminar on Oncology Nursing*	1		2				0		Students whose Major Field of
	Advanced Community Health Nursing	1 · 2		2 2			0			Study is Nursing Science
	Seminar on Community Health Nursing Issues and Concepts in Nursing Education	1.2		2				0		should complete 2 credits or
	Seminar on Nursing Education	1		2			0			more from "Lecture" courses as
e	Gerontological Nursing	1.2		2			0	0		well as 2 credits or more from "Seminar" courses.
Nursing Science	Seminar on Gerontological Nursing	1		2				0		Seminar courses.
လိ	Cognitive Nursing Science	1.2		2			0			*"Oncology Nursing" and
ing	Seminar on Cognitive Nursing Science	1		2				0		"Seminar on Oncology
nus	Psychiatric, Neuroscientific and Mental Health Nursing	1.2		2			0			Nursing" shall be replaced with
Ī	Seminar on Psychiatric, Neuroscientific and Mental Health Nursing	1		2				0		"Oncology Nursing II" and
	Advanced maternal and child nursing for global health	1.2		2			0			"Seminar on Oncology Nursing
	Seminar on Maternal and Child Nursing for Global Health	1		2				0		II" respectively for the students
	Maternal and Child Nursing Science	1.2		2			0			whose Major Field of Study is
	Seminar on Maternal and Child Nursing Science	1		2			Ŭ	0		Advanced Practice Nursing.
	Preventive Nursing	1 • 2		2			0	-		
	Seminar on Preventive Nursing	1		2				0		
	Global Health Nursing	1.2		2			0			
	Seminar on Global Health Nursing	1		2				0		
	Advanced Nursing Informatics	1.2		2			0			
	Seminar on Nursing Informatics	1		2				0		
	Total available credits from 28 courses	—	0	56	0	0		-	1	
Supervised Individual Studv	Nursing Science	1 • 2	10					0		Complete the "Supervised individual study in Nursing
supe Indiv St	Total available credits from 1 course	—	10	0	0	0		_		Science" course if your Major Field of Study is Nursing Science.
	Advanced Public Health Nursing	1	2				0			
1	Seminar on Public Health Nursing	1	2					0		
	Practicum for Public Health Nursing	1 • 2	6					0		
p	Principles of Public Health Nursing	1			2		0			
rsi	Public Health Nursing Activities				2		0			
Î	Health Promotion for Community				2		0			Complete the "Advanced
alth	Occupational Health Nursing				1		0			Public Health Nursing",
He	Health Risk Management Health and Welfare Administration	1			2		0			"Seminar on Public Health
lic	Seminar on Public Health Nursing Activities I	1			2 3					Nursing" and "Practicum for Public Health Nursing" courses
Advanced Public Health Nursing	Seminar on Public Health Nursing Activities I	1			3 2					if your Major Field of Study is
р Ц Ц	Public Health Nursing Management	2			2		0			Advanced Public Health
JCe	Seminar on Public Health Nursing Epidemiology	1			2			0		Nursing.
Var	Social Security and Health Policy	2			2		0			Ŭ
Ā	Public Health Nursing Practice I	1			2				0	
	Public Health Nursing Practice II	1			2				0	
1	Public Health Nursing Practice III	2			1				0	
1	Total available credits for 17 courses	_	10	0	. 27	0		_		1
				-		<u> </u>				

			Numb	er of C	ourse	Credit	Cla	ss For	mat	
Major Field of Study	Course	Eligible Year of Course	Required	Required Elective	Elective	Not Specified	Lecture	Seminar	Experiment/p ractical	Remarks
	Advanced Midwifery	1	2				0			
	Seminar on Advanced Midwifery	1	2					0		
	Seminar on Clinical Practice in Midwifery	1・2	6					0		
	Advanced Women's Health	1			2		0			
	Advanced Reproductive Health	1			2		0			
Advanced Midwifery	Advanced Midwifery in Human Relationship	1			2		0			Complete the "Advanced
Å	Advanced Diagnostic Methodology and Applied Technology in Midwifery	1			4		0			Midwifery", "Seminar on
Ξ	Seminar on Diagnostic Methodology and Applied Technology in Midwifery I	1			2			0		Advanced Midwifery" and
Sed	Seminar on Diagnostic Methodology and Applied Technology in Midwifery II	1			2			0		"Seminar on Clinical Practice in
anc	Advanced Child Health Care	1			2		0			Midwifery" if your Major Field of
ş	Advanced Midwifery on Maternal and Child for Global Health	2			2		0			Study is Advanced Midwifery.
◄	Midwifery Management	1			2		0			
	Clinical Midwifery Practice I	1			7				\bigcirc	
	Clinical Midwifery Practice II	2			2				\bigcirc	
	Clinical Midwifery Practice III	2			2				\bigcirc	
	Total available credits for 15 courses	_	10	0	31	0		_	-	
	Oncology Nursing I	1	2				0			
	Oncology Nursing II	1	2				0			
	Advanced Seminar on Oncology Nursing I	1	2					0		
p	Advanced Seminar on Oncology Nursing II	1	2					0		
rsir	Seminar on Oncology Nursing I	1	2					0		Complete the "Openie my
Advanced Practice Nursing	Seminar on Oncology Nursing II	1	2					0		Complete the "Oncology Nursing I&II", "Advanced
e	Advanced Lecture on Physical Assessment	1			2		0			Seminar on Oncology Nursing
acti	Advanced Lecture on Pathophysiology	1			2		0			I&II" and "Advanced Seminar
Ľ.	Advanced Lecture on Clinical Pharmacology	1			2		0			on Oncology Nursing I&II" if
eq	Advanced Lecture on Consultation	1			2		0			your Major Field of Study is
anc	Advanced Clinical Oncology	1			2		0			Advanced Practice Nursing.
ş	Advanced Nursing Practice I	1			2				0	5
< <	Advanced Nursing Practice II	2			3				\bigcirc	
	Advanced Nursing Practice III	2			3				0	
	Advanced Nursing Practice IV	2			2				\bigcirc	
	Total available credits for 15 courses	_	12	0	20	0		_	-	
vised Il Study	Nursing Practice	2	8					0		Complete the "Supervised individual study in Nursing Practice" if your Major Field of Study is either Advanced
Supervised Individual Study	Total available credits from 1 course	_	8	0	0	0		_		Public Health Nursing, Advanced Midwifery or Advanced Practice Nursing.

Name of Degree	The degree of Master of Health Sciences The degree of Master of Nursing		
		Semester and clas	s hour duration
		Number of semesters per academic year	2 semesters
		Number of weeks per semester	15 weeks
		Class hour duration	Lecture/seminar: 90 minutes Experiment/practi cal training: 180 minutes

	Courses and Credits Req	uired for	Completior	n and Enrollment Instructions						
Ма	aster's Degree Program in Health Science									
	0 0	Credits								
	Required	1								
	· · ·	1 or								
Common oundatio Courses	One of the Ethics courses	more								
nd	One of the Research Method courses	2								
ပို့ပေ	Elective	4								
ш.	Subtotal	8								
1 Lecture	and 1 Seminar offered for a selected									
	d of Study	4								
	d individual study in Health Sciences	10								
Common	Foundation Courses and the courses									
offered in	this and the other degree programs of									
	on of Health Sciences;	8								
Postgradu	iate Common Courses ; or									
•	ffered in other graduate schools									
	Total Minimum Credits Required	30								
	Master's Degree Program in Nursing			Master's Degree Program in Nursing						
Major Fiel	d of Study – Nursing Science	Credits	Major Fiel	d of Study – Advanced Public Health Nursing	Credits					
	Required	1		Required	1					
		1 or	u u s		1 or					
ati se	One of the Ethics courses	more	no ati	One of the Ethics courses	more					
Common oundatior Courses	One of the Research Method courses	2	Common oundatiol Courses	One of the Research Method courses	2					
Common Foundation Courses	Elective	4	Common Foundation Courses	Elective	4					
	Subtotal	8		Subtotal	8					
1		_	Advanced	Public Health Nursing & Seminar on Public						
	and 1 Seminar offered for Nursing	4	Health Nu		10					
Science				for Public Health Nursing						
Supervise	d individual study in Nursing Science	10		d individual study in Nursing Practice	8					
· · ·	Foundation Courses and the courses		· ·	Foundation Courses and the courses offered						
	this and the other degree programs of		-	I the other degree programs of the Division of						
	on of Health Sciences;	8	Health Sciences;							
	late Common Courses ; or		Health Sciences; Postgraduate Common Courses ; or							
-	offered in other graduate schools		Courses offered in other graduate schools							
	Fotal Minimum Credits Required	30		Total Minimum Credits Required	36					
	Master's Degree Program in Nursing	1 30		Master's Degree Program in Nursing	00					
Maior Field	d of Study – Advanced Midwifery	Credite	Maior Fiel	d of Study – Advanced Practice Nursing	Credits					
	Required	1		Required	1					
		1 or			1 or					
nor atic ses	One of the Ethics courses	more	nor atic ses	One of the Ethics courses	more					
Common Foundation Courses	One of the Research Method courses	2	Common Foundation Courses	One of the Research Method courses	2					
S S S	Elective	4	ပိ ရှိ ပိ	Elective	4					
ш.	Subtotal	8	LL LL	Subtotal	8					
Advanced	Midwifery & Seminar on Advanced		Oncology	Nursing I&II and Seminar on Oncology						
	on Clinical Practice in Midwifery	10		Seminar on Oncology Nursing I&II	12					
	d individual study in Nursing Practice	8		d individual study in Nursing Practice	8					
· · · ·	Foundation Courses and the courses	<u> </u>		Foundation Courses and the courses offered	-					
	fered in this and the other degree programs of e Division of Health Sciences;		in this and the other degree programs of the Division of							
	late Common Courses ; or	10								
-	offered in other graduate schools		Postgraduate Common Courses ; or Courses offered in other graduate schools							
	-			-						
	Total Minimum Credits Required	36		Total Minimum Credits Required	36					

[Prerequisite course completion for Public Health Nurse/Midwifery Licensure Examination]

	Courses and Credits Requi	red for Co	omple	etion and Enrollment Instructions	
	Master's Degree Program in Nursing			Master's Degree Program in Nursing	
Cour	ses to complete before Public Health Nurse Licensure Exa	mination	Cou	a a a	
	r Field of Study – Advanced Public Health Nursing			or Field of Study – Advanced Midwifery	Credits
	Risk Management	1	l Ó	Risk Management	1
	Health Care Ethics	1	Ę	Health Care Ethics	1
atic	Select one of the following:		ati	Select one of the following:	
s nd	Experimental Methodology, Case Study Methods in		» nd	Experimental Methodology, Case Study Methods in	
on Foun Courses	Health Sciences, Methods of Qualitative Research,	2	Foundation Irses	Experimental Methodology, Case Study Methods in Health Sciences, Methods of Qualitative Research, Research Strategies in Health Sciences or Methodology in Nursing Research	2
L D	Research Strategies in Health Sciences or Methodology			Research Strategies in Health Sciences or Methodology	
Common Foundation Courses	in Nursing Research		Common Col	in Nursing Research	
Ē	2 Common Foundation Courses other than the above and	4	Ē	2 Common Foundation Courses other than the above and	4
Ŭ	the courses indicated in footnote 1	4	ŏ	the courses indicated in footnote 1	4
	Subtotal	8		Subtotal	8
	nced Public Health Nursing & Seminar on Public Health	4	Adv	anced Midwifery & Seminar on Advanced Midwifery	4
Nursi Pract	icum for Public Health Nursing	6	Sen	ninar on Clinical Practice in Midwifery	6
	rvised individual study in Nursing Practice	8		ervised individual study in Nursing Practice	8
	ses Stipulated in Relevant Regulations (see footnote 2)			irses Stipulated in Relevant Regulations (see footnote 2)	
	dits from:			edits from:	
-	iples of Public Health Nursing			anced Women's Health	
Socia	al Security and Health Policy		Adv	anced Reproductive Health	
	nced Community Health Nursing	10	Adv	anced Midwifery on Maternal and Child for Global Health	10
4 cre	dits from:		4 cr	edits from:	
Cour	ses offered in "Major Field of Study - Nursing Science"			rses offered in "Major Field of Study - Nursing Science"	
and (Common Foundation Courses (excl. the courses in		and	Common Foundation Courses (excl. the courses in	
	ote 1)		foot	note 1)	
	The following 14 courses in "Major Field of Study -			The following 12 courses in "Major Field of Study -	
	Advanced Public Health Nursing"	_		Advanced Midwifery"	
	Principles of Public Health Nursing (see footnote 2)	2		Advanced Women's Health (see footnote 2)	2
	Public Health Nursing Activities	2		Advanced Reproductive Health (see footnote 2)	2
	Health Promotion for Community	2	ω.	Advanced Midwifery in Human Relationship Advanced Diagnostic Methodology and Applied	2
ü	Occupational Health Nursing	1	Regulations	Technology in Midwifery	4
lati			lat	Seminar on Diagnostic Methodology and Applied	
ngé	Health Risk Management	2	nbe	Technology in Midwifery I	2
r T	Health and Welfare Administration	2	Ř	Seminar on Diagnostic Methodology and Applied	2
ant			evant	Technology in Midwifery II	
<u>e</u>	Seminar on Public Health Nursing Activities I	3	é	Advanced Child Health Care	2
Stipulated in Relevant Regulations	Seminar on Public Health Nursing Activities II	2	Rel	Advanced Midwifery on Maternal and Child for Global Health (see footnote 2)	2
.⊑	Public Health Nursing Management	2	. <u> </u>	Midwifery Management	2
ted	Seminar on Public Health Nursing Epidemiology	2	ted	Clinical Midwifery Practice I	7
ula	Social Security and Health Policy (see footnote 2)	2	Stipulated	Clinical Midwifery Practice II	2
, ţi	Public Health Nursing Practice I	2	Stip	Clinical Midwifery Practice III	2
s s	Public Health Nursing Practice II	2			
rse	Public Health Nursing Practice III	1	rse		
no	Advanced Community Health Nursing (offered in "Major	2	Courses		
	Field of Study - Nursing Science", see footnote 2)		Ĩ		
	"Health, Society and Environment -				
	Community Health Activity" from the Postgraduate	2			
	Common Courses (Inter-Graduate School Classes)				
	Subtotal	25 (31)		Subtotal	25 (31)
Tota	I Minimum Credits Required for Program Completion and	61	Tot	al Minimum Credits Required for Program Completion and	61
	Determined Under Regulations			Determined Under Regulations	

[1] Nursing Ethics, Hospital Financial Accounting, Hospital Management Strategy, Hospital Organization Management, Medical Marketing, Health Care Policy, Health Economics, Hospital Management Accounting, Collaboration Management on Industry-Government-Academia, Hospital Information Management A, Hospital Information Management B, Case Studies Exercise on Hospital Management A, Case Studies Exercise on Hospital Management B [2] "Courses and Credits Required for Completion" includes Principles of Public Health Nursing, Social Security and Health Policy and Advanced Community Health Nursing. Hence the Subtotal of the "Courses Stipulated in Relevant Regulations" makes 25 credits after the 6 credits for the above three courses are subtracted from the sum credits of the "Courses Stipulated in Relevant Regulations". The number in the parentheses in the Subtotal row figures the sum credits. [1] Nursing Ethics, Hospital Financial Accounting, Hospital Management Strategy, Hospital Organization Management, Medical Marketing, Health Care Policy, Health Economics, Hospital Management Accounting, Collaboration Management on Industry-Government-Academia, Hospital Information Management A, Hospital Information Management B, Case Studies Exercise on Hospital Management A, Case Studies Exercise on Hospital Management B

[2] "Courses and Credits Required for Completion" includes Advanced Women's Health, Advanced Reproductive Health and Advanced Midwifery on Maternal and Child for Global Health. Hence the Subtotal of the "Courses Stipulated in Relevant Regulations" makes 25 credits after the 6 credits for the above three courses are subtracted from the sum credits of the "Courses Stipulated in Relevant Regulations". The number in the parentheses in the Subtotal row figures the sum credits.

[Prerequisite course completion for Clinical Nurse Specialist Examination]

Courses and Credits Required for Completion and Enrollment Instructions	
Master's Degree Program in Nursing	
Courses to complete before Clinical Nurse Specialist Examination	
Major Field of Study – Advanced Practice Nursing	Credits
ဖ္မွ Required	1
Select one of the following: Health Care Ethics or Nursing Ethics	1 or more
Required Select one of the following: Health Care Ethics or Nursing Ethics Select one of the following: Experimental Methodology, Case Study Methods in Health Sciences, Methods of Qualitative Research, Research Strategies in Health Sciences or Methodology in Nursing Research 2 Common Foundation Courses other than the above	2
E 2 Common Foundation Courses other than the above	4
Ŭ Subtotal	8
Oncology Nursing I&II	4
Advanced Seminar on Oncology Nursing I&II	4
Seminar on Oncology Nursing I&II	4
Supervised Individual Study in Nursing Practice	8
Journal11 out of the following 12 courses under the "Major Field of Study - Advanced Practice Nursing" are required.Issues and Concepts in Nursing Education Issues and Concepts in Nursing Administration Advanced Lecture on Consultation Advanced Lecture on Physical Assessment Advanced Lecture on Pathophysiology Advanced Lecture on Clinical Pharmacology Advanced Nursing Practice I Advanced Nursing Practice II Advanced Nursing Practice IIISelect 3 out of 4 courses incl. these 3 courses and "Nursing Ethics" under the Common Foundation Courses	
Issues and Concepts in Nursing Education	2
incl. these 3 courses and "Sourcepts in Nursing Administration" incl. these 3 courses and "Nursing Ethics"	2
 Issues and Concepts in Nursing Administration Advanced Lecture on Consultation Advanced Lecture on Physical Assessment Advanced Lecture on Pathophysiology Advanced Lecture on Clinical Pharmacology Advanced Clinical Oncology Advanced Nursing Practice I Advanced Nursing Practice II Advanced Nursing Practice III 	2
Advanced Lecture on Physical Assessment Foundation Courses	2
235 Advanced Lecture on Pathophysiology	2
Advanced Lecture on Clinical Pharmacology	2
र्दे हे Advanced Clinical Oncology	2
🖻 စို့ Advanced Nursing Practice I	2
စ္မ ြ Advanced Nursing Practice II	3
ਸਤੂ ਦੂ Advanced Nursing Practice III	3
ਿੱਲ ਟੋ Advanced Nursing Practice IV	2
Subtotal	
Subtotal	24
Total	52
Total Minimum Credits Required for the Clinical Nurse Specialist Examination	38

Graduate School of Health Sciences Master's Degree Program Courses and Teaching Staff in Charge

Degree Program	Major Field of Study	Course	Teaching Staff in Charge	Credit	When Course is Offered (Year & Semester)					
		Risk Management	OGASAWARA Katsuhiko	1	Year1&2 Sem1					
		Health Care Ethics	IWAMOTO Mikiko	1	Year1&2 Sem1					
		Nursing Ethics	IWAMOTO Mikiko, SUMI Naomi	2	Year1&2 Sem1					
ŭ	S	Experimental Methodology	gy gy KETEMA KETEMA IKEDA Atsuko, YOKOSAWA Koichi, ISHIZU Akihiro, MAEJIMA Hiroshi, CHIKENJI Takako, MIYAZAKI Taisuke, YAMAGUCHI Hiroyuki, SAKURAI Toshihiro, RAHEL MESFIN KETEMA							
8		Case Study Methods in Health Sciences	EBINA Yasuhiko, SAWAMURA Daisuke	2	Year1 Full year					
Common Foundation Courses	3	Methods of Qualitative Research*	ТВА	2	Year1 Full year					
	5	Research Strategies in Health Sciences	YAMAUCHI Taro, SATOH Miho, TAKASHIMA Risa	2	Year1 Full year					
÷		Methodology in Nursing Research	SUMI Naomi, ITOH Yoichi, YANO Rika, TBA	2	Year1 Full year					
ŝ	- In	Statistical Practice for Healthcare Research	YOKOTA Isao	2	Year1&2 Sem1					
L L L		Advanced Laboratory Medicine	YAMAGUCHI Hiroyuki, Shu-Ping HUI, OKUBO Torahiko, SHIMIZU Chikara, ITOH Takuya, TAMURA Shogo	2	Year1&2 Sem1					
5		Oncology and Regenerative Medicine	OZAKI Michitaka, KAMISHIMA Tamotsu, EBINA Yasuhiko	2	Year1&2 Sem1					
Č	5 S	Functional Anatomy	MIYAZAKI Taisuke	2	Year1 Sem2					
-		Health Sciences	YAMAUCHI Taro, YOKOSAWA Koichi, OGASAWARA Katsuhiko, OTSUKI Mika, OZAKI Michitaka, IKEDA Atsuko	2	Year1&2 Sem1					
		Sports and Physical Fitness Science	SAMUKAWA Mina, TAKIZAWA Kazuki	2	Year1&2 Sem1					
		Physiological Functions of Foods*	ТВА	2	Year1&2 Sem1					
		Nutraceutical Pharmacodynamics*	ТВА	2	Year1&2 Sem1					
		Team Approach to Health Care	SUMI Naomi, TBA	2	Year1&2 Sem1					
	Science leering	Advanced Lecture on Medical Physics and Biomedical Engineering* Quantum Life Medical Science	ТВА	2	Year1&2 Sem1					
	ciel	Quantum Life Medical Science	FUKUNAGA Hisanori	2	Year1&2 Sem1					
ŝ	in S	Seminar on Quantum Life Medical Science	FUKUNAGA Hisanori	2	Year1 Sem2					
ЭС	Biomedical (and Engine	Advanced Lecture on Diagnostic Imaging	KAMISHIMA Tamotsu	2	Year1&2 Sem1					
ciei	d E d	Seminar on Diagnostic Imaging	KAMISHIMA Tamotsu	2	Year1 Sem2					
Ň	an	Clinical Imaging Technology	SUGIMORI Hiroyuki	2	Year1&2 Sem1					
alth	ш	Seminar on Clinical Imaging Technology	SUGIMORI Hiroyuki	2	Year1 Sem2					
in He		Comprehensive Assessment of Cardiovascular Function	KAGA Sanae	2	Year1 Sem1					
ogram	ence	Seminar on Comprehensive Assessment of Cardiovascular Function	KAGA Sanae	2	Year1 Sem2					
Р	Sci	Blood Regulation and Regeneration	TAMURA Shogo	2	Year1&2 Sem1					
ee.	Σ	Seminar on Blood Regulation and Regeneration	TAMURA Shogo	2	Year1 Sem2					
Master's Degree Program in Health Sciences	Medical Laboratory Science	Analytical Chemistry for Metabolic Research	Shu-Ping HUI, Bomme GOWDA, Hsinjung HO, DIVYAVANI, CHEN YI FAN, SAKURAI Toshihiro	2	Year1&2 Sem1					
aster's	cal La	Seminar on Analytical Chemistry for Metabolic Research	Shu-Ping HUI, Bomme GOWDA, Hsinjung HO, DIVYAVANI, CHEN YI FAN, SAKURAI Toshihiro	2	Year1 Sem2					
Σ	edi	Advanced Lecture on Infection and Stress Response	YAMAGUCHI Hiroyuki, OZAKI Michitaka	2	Year1&2 Sem1					
	ž	Seminar on Infection and Stress Response	YAMAGUCHI Hiroyuki, OZAKI Michitaka	2	Year1 Sem2					
		Immunopathogenesis	ISHIZU Akihiro, MASUDA Sakiko, NISHIBATA Yuka	2	Year1&2 Sem1					
		Seminar on Immunopathogenesis	ISHIZU Akihiro, MASUDA Sakiko, NISHIBATA Yuka	2	Year1 Sem2					

Degree Program	Major Field of Study	Course	Teaching Staff in Charge	Credit	When Course is Offered (Year & Semester)
		Motor Control	MAEJIMA Hiroshi, HASEGAWA Naoya, TBA	2	Year1&2 Sem1
		Seminar on Motor Control	MAEJIMA Hiroshi, HASEGAWA Naoya, TBA	2	Year1 Sem2
		Management of Musculoskeletal System Disorders	TOHYAMA Harukazu, SAMUKAWA Mina, KASAHARA Satoshi, ISHIDA Tomoya	2	Year1&2 Sem1
		Seminar on Management of Musculoskeletal System Disorders	TOHYAMA Harukazu, SAMUKAWA Mina, KASAHARA Satoshi, ISHIDA Tomoya	2	Year1 Sem2
	nce	Occupational Adaptation for Developmental Disabilities and Neuropsychological Disabilities	CHIKENJI Takako, SAWAMURA Daisuke, YOSHIDA Kazuki	2	Year1&2 Sem1
	Rehabilitation Science	Seminar on Occupational Adaptation for Developmental Disabilities and Neuropsychological Disabilities	CHIKENJI Takako, SAWAMURA Daisuke, YOSHIDA Kazuki	2	Year1 Sem2
	atio	Biomedical System Control Science	CHIKENJI Takako	2	Year1&2 Sem1
	ilita	Biomedical System Control Science Seminar	CHIKENJI Takako	2	Year1 Sem2
	lab	Rehabilitation for Patients with Mental Disorders*	ТВА	2	Year1&2 Sem1
	Ret	Seminar on Rehabilitation for Patients with Mental Disorders*	ТВА	2	Year1 Sem2
lces		Fundamental Research for Functional Biology	MIYAZAKI Taisuke, SAWAMURA Daisuke, YOSHIDA Kazuki, TAKASHIMA Risa	2	Year1&2 Sem1
Master's Degree Program in Health Sciences		Seminar on Fundamental Research for Functional Biology	MIYAZAKI Taisuke, SAWAMURA Daisuke, YOSHIDA Kazuki, TAKASHIMA Risa	2	Year1 Sem2
alt		Advanced Sports Physical Therapy	SAMUKAWA Mina	2	Year1&2 Sem1
Не		Sports Physical Therapy Seminar	SAMUKAWA Mina	2	Year1 Sem2
.⊆		Environmental Health Sciences	IKEDA Atsuko	2	Year1&2 Sem1
E	Health Research Studies	Exercise on Environmental Health Sciences	IKEDA Atsuko	2	Year1 Sem2
g	tuc	Human Ecology	YAMAUCHI Taro	2	Year1&2 Sem1
Ъ.	о Ч	Seminar on Human Ecology	YAMAUCHI Taro	2	Year1 Sem2
ee	arc	Advanced Metrology of Functional Information	YOKOSAWA Koichi	2	Year1&2 Sem1
egr	se	Seminar on Metrology of Functional Information	YOKOSAWA Koichi	2	Year1 Sem2
Ŭ,	Å	Health Information Science	OGASAWARA Katsuhiko	2	Year1&2 Sem1
er,	alth	Seminar on Health Information Science	OGASAWARA Katsuhiko	2	Year1 Sem2
ast	ΗĞ	Cognitive Neurology	OTSUKI Mika	2	Year1&2 Sem1
Σ		Seminar on Cognitive Neurology	OTSUKI Mika	2	Year1 Sem2
	Supe	rvised Individual Study in Health Sciences	KAMISHIMA Tamotsu, YAMAGUCHI Hiroyuki, ISHIZU Akihiro, Shu-Ping HUI, OZAKI Michitaka, TOHYAMA Harukazu, MAEJIMA Hiroshi, CHIKENJI Takako, YOKOSAWA Koichi, OGASAWARA Katsuhiko, YAMAUCHI Taro, IKEDA Atsuko, SUGIMORI Hiroyuki, TAKASHIMA Hiroyuki, FUKUNAGA Hisanori, KAGA Sanae, SAKURAI Toshihiro, TAMURA Shogo, SAMUKAWA Mina, MIYAZAKI Taisuke, HASEGAWA Naoya, OTSUKI Mika, MATSUYA Yusuke, OKUBO Torahiko, MASUDA Sakiko, SAWAMURA Daisuke, YOSHIDA Kazuki, TAKASHIMA Risa, Hsinjung HO, TSUTSUMI Kaori, MURAYAMA Michito, KASAHARA Satoshi, ISHIDA Tomoya, MIYAJIMA Maki, KOSHINO Yuta, YOSHIMURA Takaaki, DIVYAVANI	10	Year1&2 Full Year

Degree Program	Major Field of Study	Course	Teaching Staff in Charge	Credit	When Course is Offered (Year & Semester)
		Issues and Concepts in Nursing Administration	IWAMOTO Mikiko, TANAKA Izumi	2	Year1&2 Sem1
		Seminar on Nursing Administration	IWAMOTO Mikiko	2	Year1 Sem2
		Clinical Nursing Skills	YANO Rika	2	Year1&2 Sem1
		Seminar on Clinical Nursing Skills	YANO Rika	2	Year1 Sem2
		Primary Care Nursing and Health System Management	SUMI Naomi, SATOH Miho	2	Year1&2 Sem1
		Seminar on Primary Care Nursing and Health System Management	SUMI Naomi, SATOH Miho	2	Year1 Sem2
		Oncology Nursing	SUMI Naomi, TBA	2	Year1&2 Sem1
		Seminar on Oncology Nursing	SUMI Naomi, TBA	2	Year1 Sem2
		Advanced Community Health Nursing	TADAKA Etsuko, HIRANO Michiyo, TBA	2	Year1&2 Sem1
		Seminar on Community Health Nursing	TADAKA Etsuko, HIRANO Michiyo	2	Year1 Sem2
		Issues and Concepts in Nursing Education	YANO Rika	2	Year1&2 Sem1
	ø	Seminar on Nursing Education	YANO Rika	2	Year1 Sem2
	Nursing Science	Gerontological Nursing	YUKI Michiko	2	Year1&2 Sem1
	Scie	Seminar on Gerontological Nursing	YUKI Michiko	2	Year1 Sem2
	о б	Cognitive Nursing Science	OTSUKI Mika, YUKI Michiko	2	Year1&2 Sem1
	Sin	Seminar on Cognitive Nursing Science	OTSUKI Mika, YUKI Michiko	2	Year1 Sem2
	Nu	Psychiatric, Neuroscientific and Mental Health Nursing	MIYAJIMA Naoko	2	Year1&2 Sem1
		Seminar on Psychiatric, Neuroscientific and Mental Health Nursing	MIYAJIMA Naoko	2	Year1 Sem2
		Advanced maternal and child nursing for global health	2	Year1&2 Sem1	
ing		Seminar on maternal and child nursing for global health	KONDO Yoshiko, NOGUCHI Makiko, FUJITA Wakako, EBINA Yasuhiko	2	Year1 Sem2
nrs		Maternal and Child Nursing Science	MATSUZAWA Akemi, EBINA Yasuhiko	2	Year1&2 Sem1
Ž		Seminar on Maternal and Child Nursing Science	MATSUZAWA Akemi, EBINA Yasuhiko	2	Year1 Sem2
Li L		Preventive Nursing	IKEDA Atsuko	2	Year1&2 Sem1
an		Seminar on Preventive Nursing	IKEDA Atsuko	2	Year1 Sem2
ogr		Global Health Nursing	YAMAUCHI Taro	2	Year1&2 Sem1
Ъ Б		Seminar on Global Health Nursing	YAMAUCHI Taro	2	Year1 Sem2
e		Advanced Nursing Informatics	OGASAWARA Katsuhiko	2	Year1&2 Sem1
gr		Seminar on Nursing Informatics	OGASAWARA Katsuhiko	2	Year1 Sem2
ď		Advanced Public Health Nursing	TADAKA Etsuko, HIRANO Michiyo	2	Year1 Sem1
r's		Seminar on Public Health Nursing	TADAKA Etsuko, HIRANO Michiyo, TBA	2	Year1 Sem2
Master's Degree Program in Nursing		Practicum for Public Health Nursing	TADAKA Etsuko, HIRANO Michiyo, TBA	6	Year1 Sem2, Year2 Sem1
2		Principles of Public Health Nursing	TADAKA Etsuko, NAGATA Rie	2	Year1 Sem1
		Public Health Nursing Activities	HIRANO Michiyo, TAKASHIMA Risa, ONODERA Sayaka, TAKAHASHI Mitsu	2	Year1 Sem1
	ng	Health Promotion for Individual and Family	HIRANO Michiyo, ONODERA Sayaka		Year1 Sem1
	Nursing	Health Promotion for Community	HIRANO Michiyo	2	Year1 Sem1
		Occupational Health Nursing	TADAKA Etsuko, FUKUNAGA Hisanori, MIYAZAKI Yumiko, TBA	1	Year1 Full Year
	ealth	Health Risk Management	HIRANO Michiyo, YAMAGUCHI Ryo, FURUSAWA Wataru, MORI, TERADA Kensaku, WAKAYAMA Yoshimi	2	Year1 Sem2
	Т.	Health and Welfare Administration	TADAKA Etsuko, TANAKA Kenichi, MAKI Yasuhiro	2	Year1 Full Year
	Public H	Seminar on Public Health Nursing Activities I	HIRANO Michiyo, TBA, MIYAJIMA Maki, KONDO Yoshiko, OZAWA Ryoko, TAKAHASHI Mitsu	3	Year1 Sem1
	Ъ.	Seminar on Public Health Nursing Activities II	HIRANO Michiyo, TBA	2	Year1 Sem2
	Advanced	Public Health Nursing Management	TADAKA Etsuko, ISHIKAWA Tamami, ABE leko, MIYASHITA Tsunemi	2	Year2 Sem1
	^p	Seminar on Public Health Nursing Epidemiology	TADAKA Etsuko, IKEDA Atsuko, TBA	2	Year1 Sem1
	Ā	Social Security and Health Policy	HIRANO Michiyo, TANAKA Kenichi, KAWAKUBO Hiroshi, ISHI Yasuhiko, NOMURA Yoko, TBA	2	Year2 Sem2
		Health and Welfare Public Policy	HIRANO Michiyo, KAWAKUBO Hiroshi, NAKAZONO Kazutaka, TBA, ISHII, NOMURA Yoko		Year2 Sem2
		Public Health Nursing Practice I	HIRANO Michiyo, TBA, TADAKA Etsuko	2	Year1 Sem2
		Public Health Nursing Practice II	HIRANO Michiyo, TBA, TADAKA Etsuko	2	Year1 Sem2
		Public Health Nursing Practice III	HIRANO Michiyo, TBA, TADAKA Etsuko	1	Year2 Sem1

Degree Program	Major Field of Study	Course	Teaching Staff in Charge	Credit	When Course is Offered (Year & Semester)
		Advanced Midwifery	KONDO Yoshiko	2	Year1 Sem1
		Seminar on Advanced Midwifery	KONDO Yoshiko	2	Year1 Sem2
		Seminar on Clinical Practice in Midwifery	EBINA Yasuhiko, KONDO Yoshiko	6	Year1 Sem2, Year2 Sem1
		Advanced Women's Health	EBINA Yasuhiko	2	Year1 Sem1
		Advanced Reproductive Health	KONDO Yoshiko	2	Year1 Sem1
	~	Advanced Midwifery in Human Relationship	KONDO Yoshiko, MIYAJIMA Naoko	2	Year1 Sem2
	Advanced Midwifery	Advanced Diagnostic Methodology and Applied Technology in Midwifery	EBINA Yasuhiko	4	Year1 Sem1
	ced Mi	Seminar on Diagnostic Methodology and Applied Technology in Midwifery I	KONDO Yoshiko, YOSHIDA Michiko, TBA	2	Year1 Sem1
	Advano	Seminar on Diagnostic Methodology and Applied Technology in Midwifery II	KONDO Yoshiko, YOSHIDA Michiko, TBA	2	Year1 Sem1
	4	Advanced Child Health Care	KONDO Yoshiko, CHO Kazutoshi, KURODA Noriko	2	Year1 Sem2
		Advanced Midwifery on Maternal and Child for Global Health	KONDO Yoshiko, ISHIBASHI Noriko	2	Year2 Sem1
		Midwifery Management	KONDO Yoshiko	2	Year1 Sem2
		Clinical Midwifery Practice I	KONDO Yoshiko, YOSHIDA Michiko, TBA	7	Year1 Sem2
		Clinical Midwifery Practice II	KONDO Yoshiko, YOSHIDA Michiko, TBA	2	Year2 Sem1
D		Clinical Midwifery Practice III	KONDO Yoshiko, YOSHIDA Michiko, TBA	2	Year2 Sem1
Sin		Oncology Nursing I	SUMI Naomi, TBA	2	Year1 Sem1
N		Oncology Nursing II	SUMI Naomi, HIRAYAMA Saori, BUKAWA Reiko, TBA	2	Year1 Sem1
Master's Degree Program in Nursing	sing	Advanced Seminar on Oncology Nursing I	SUMI Naomi, TSURUGA Kenkichi, TAMAKI Tomohiro, UEMURA Keiichi, ONO Satoko	2	Year1 Sem2
		Advanced Seminar on Oncology Nursing II	SUMI Naomi, NISHIDA Mari, BUKAWA Reiko, ONO Satoko	2	Year1 Sem2
		Seminar on Oncology Nursing I	SUMI Naomi, UTSUMI Akemi, MAENO Hiroshi, TAMAKI Tomohiro, TSURUGA Kenkichi	2	Year1 Sem2
egr	Nur	Seminar on Oncology Nursing II	SUMI Naomi, HIRAYAMA Saori, TBA	2	Year1 Sem2
Õ	e.	Advanced Lecture on Physical Assessment	IWAMOTO Mikiko , SUMI Naomi, TBA	2	Year1 Sem1
er	acti	Advanced Lecture on Pathophysiology	OZAKI Michitaka, OTSUKI Mika, SUMI Naomi, EBINA Yasuhiko	2	Year1 Sem1
ast	Ри	Advanced Lecture on Clinical Pharmacology	ISEKI Ken, SUMI Naomi	2	Year1 Sem1
Σ	Advanced Practice Nursing	Advanced Lecture on Consultation	SUMI Naomi, YOSHIDA Satomi, HIRAYAMA Saori, YAGI Kozue, ISHIOKA Akiko, BUKAWA Reiko	2	Year1 Sem1
	Adva	Advanced Clinical Oncology	OZAKI Michitaka, HIRANO Satoshi, TESHIMA Takanori, KINOSHITA Ichiro, KINOSHITA Rumiko, UEMURA Keiichi, SUMI Naomi	2	Year1 Sem1
		Advanced Nursing Practice I	SUMI Naomi, TBA	2	Year1 Sem2
		Advanced Nursing Practice II	SUMI Naomi, TBA	3	Year2 Sem1
		Advanced Nursing Practice III	SUMI Naomi, TBA	3	Year2 Sem1
		Advanced Nursing Practice IV	SUMI Naomi, TBA	2	Year2 Sem1
Supervised Individual Study in Nursing Science			EBINA Yasuhiko, OZAKI Michitaka, YUKI Michiko, YANO Rika, SUMI Naomi, TADAKA Etsuko, OGASAWARA Katsuhiko, YAMAUCHI Taro, IKEDA Atsuko, MIYAJIMA Naoko, OTSUKI Mika, IWAMOTO Mikiko, SATOH Miho, HIRANO Michiyo, KONDO Yoshiko, MATSUZAWA Akemi, COLLEY Noriyo	10	Year1&2 Full Year
	Supe	ervised Individual Study in Nursing Practice	EBINA Yasuhiko, YUKI Michiko, YANO Rika, SUMI Naomi, TADAKA Etsuko, MIYAJIMA Naoko, IWAMOTO Mikiko, SATOH Miho, HIRANO Michiyo, KONDO Yoshiko, MATSUZAWA Akemi, COLLEY Noriyo	8	Year2 Full Year

Note: Course names and teaching staff members are subject to change.

Graduate School of Health Sciences Division of Health Sciences Master's Program Supervising Faculty

As of April 1, 2023

	Major Field of		
Degree Program	Study (Education and Research Field)	Faculty Name and Email	Major Research Topics
	Biomedical Science & Engineering	Professor Tamotsu Kamishima ktamotamo2@hs.hokudai. ac.jp Associate Professor Hiroyuki Sugimori sugimori@hs.hokudai.ac.jp	 Research on automatic detection of joint space narrowing using radiography Research on quantitative evaluation of inflammatory joint disease activity using ultrasound and MR images Research on the quantification of osteoporosis Development of deep learning–based diagnostic assistance programs Development of quantitative image processing algorithms for medical images Medical image analysis with computer vision and
		Associate Professor Hiroyuki Takashima hirotakashima@pop.med.h okudai.ac.jp	 programming 1) Quantitative image analysis for various disorders 2) Study for metabolism of muscle and bone with aging and inflammation 3) Development of image analysis for musculoskeletal disorders
Master's		Associate Professor Hisanori Fukunaga hisanori.fukunaga@hs.hok udai.ac.jp	 Elucidation of tissue-sparing effect following spatially fractionated radiation and its application for radiotherapy Biochemical analysis on interactions between biomolecules damaged by radiation
Degree Program in Health Science		Professor Hiroyuki Yamaguchi hiroyuki@med.hokudai.ac.j p	 Persistent infection of intercellular pathogens and its molecular basis Adaptive strategy of human pathogens for their surviving in natural environments Analysis of symbiosis among microbes focused on an interaction of unculturable bacteria with amoebae
		Professor Akihiro Ishizu aishizu@med.hokudai.ac.j p	 Pathology and pathogenesis of vasculitis Biophylaxis and its disorders Analysis of immune cell function
	Medical Laboratory Science	P Professor Shu-Ping Hui keino@hs.hokudai.ac.jp	 Research on plasma lipoproteins and bioactive lipids Research on dyslipidemia such as ectopic lipid storage disease Research on oxidative stress response and regulation of mitochondrial function Research and development of functional foods and elucidation of mechanism of action
		Professor Michitaka Ozaki ozaki-m@med.hokudai.ac.j p	 Analysis of molecular mechanism of biological stress, stress response and regulation Liver physio-pathology and its systemic impact (a comprehensive study of cell/organ function and whole body conditions) Spatio-temporal bio-analysis by non-invasive visualization and monitoring of molecular function / cellular atmosphere and, its clinical application

	Associate Professor Sanae Kaga	1)Assessment of cardiovascular diseases using
	sanae@med.hokudai.ac.jp	ultrasonography 2)Assessment of age-related changes in cardiac shape and function 3)Study of method for standardization and accuracy control of ultrasonographic examination
	Associate Professor Toshihiro Sakurai sakura@hs.hokudai.ac.jp	 Plasma lipid and lipoprotein metabolism Development of clinical examination and analytical methods Functional food chemistry for health
	Associate Professor Shogo Tamura stamura@hs.hokudai.ac.jp	 Elucidation of the bone marrow hematopoietic microenvironment Development of bone marrow organoids Molecular pathophysiology of congenital blood coagulation disorders
	Professor Harukazu Tohyama tohyama@med.hokudai.ac .jp	 Rehabilitation for musculoskeletal disorders Athletic rehabilitation Biology and biomechanics for tendon and ligament
	Professor Hiroshi Maejima maeji@hs.hokudai.ac.jp	 Synaptic modification induced by exercise and motor learning Neuromodulation for kinesiotherapy in disorder of the central nervous system Health promotion and prevention of degenerative change in the elderly.
Rehabilitation		 Cell senescence in regeneration and inflammatory disease Mesenchymal progenitors/stromal cells in inflammatory disease
Science	Associate Professor Mina Samukawa mina@hs.hokudai.ac.jp Associate Professor Taisuke Miyazaki	 Sports injury prevention Effects of therapeutic exercises Warm up effects Molecular mechanism of neurotransmitter-specific contact between pre- and postsynapse
	.jp Associate Professor	network formation in the cerebellum 3) Zone-specific neuronal circuit in the cerebellar cortex 1) Rehabilitation for movement disorders
	naoya Hasegawa n_hasegawa@hs.hokudai. ac.jp	 2) Motor learning on postural control and Effects of sensory biofeedback training 3) Mechanism and Quantitative assessment of postural Control
Health Research Studies	Professor Koichi Yokosawa yokosawa@med.hokudai.a c.jp	 Non-invasive measurements and imaging of human brain functions (e.g., communication, memory, music perception) Research on evaluating endogenous brain functions (emotion, impulsivity, or stress) by electrophysiological measurements Bio-medical engineering to decode higher order brain
	Science Health Research	sakura@hs.hokudai.ac.jpAssociate Professor Shogo Tamura stamura@hs.hokudai.ac.jpProfessor Harukazu Tohyama tohyama@med.hokudai.ac .jpProfessor Hiroshi Maejima maeji@hs.hokudai.ac.jpProfessor Hiroshi Maejima maeji@hs.hokudai.ac.jpScienceProfessor Takako Chikenji chikenji@pop.med.hokudai .ac.jpAssociate Professor Mina Samukawa mina@hs.hokudai.ac.jpAssociate Professor Taisuke Miyazaki miyazaki@med.hokudai.ac .jpAssociate Professor Taisuke Miyazaki miyazaki@med.hokudai.ac .jpHealth ResearchProfessor Koichi Yokosawa yokosawa@med.hokudai.a c.jp

Degree Program	Major Field of Study (Education and Research Field)	Faculty Name and Email	Major Research Topics
	1.014/	Professor Katsuhiko Ogasawara oga@hs.hokudai.ac.jp	 Hospital management and health system research tele-healthcare system and social health informatics Medical technology assessment and health economics
		Professor Taro Yamauchi taroy@med.hokudai.ac.jp	 -Fieldwork in small societies in developing countries 1) Global Health: basic human needs (BHN) & QOL of local populations/societies 2) Child Health: food & nutrition, physical activity, growth & development, physical fitness, behavioral pattern 3) Transdisciplinary Research: participatory action research by local children to co-create healthy community (e.g., water, sanitation and hygiene (WASH))
		Professor Atsuko Ikeda AAraki@cehs.hokudai.ac.j p	 Epidemiological studies of Environmental Chemical Exposure and its effect on adverse health outcomes. Birth cohort studies on environment and children's health Indoor air quality and inhabitants' health
		Professor Shu-Ping Hui keino@hs.hokudai.ac.jp	 Research on lipoproteins, lipid peroxides, fatty acid and biologically active lipids (plasmalogen, lysophospholipid, cardiolipin) Development of biomarkers and testing reagents Research on NASH, lipid droplets and functional foods
		Associate Professor Mika Otsuki lasteroideb612@pop.med. hokudai.ac.jp	 Clinical neuropsychology/ cognitive neurology (researching on mechanism of aphasia, agnosia, apraxia and memory impairment.) Neuroimaging studies using fMRI or ECDL. Interdisciplinary study of language.
	Nursing Science	Professor Yasuhiko Ebina ebiyas@hs.hokudai.ac.jp	 Research on women's mental health care Research on support for mothers and children who requires social and emotional help Research on women's cancer awareness, prevention, and screening
Master's Degree	Advanced Public Health Nursing	Professor Etsuko Tadaka e_tadaka@pop.med.hokud ai.ac.jp	1) The generation of evidence and development of preventive approaches related to health/longevity
Program in Nursing	Advanced Midwifery Advanced		 3) Empirical research on the prevention of social isolation and loneliness and community development 4) The setting and solving agenda related to public and community nursing in the next society
	Practice Nursing	Professor Michitaka Ozaki ozaki-m@med.hokudai.ac.j p	 Molecular mechanism of stress response and regulation Liver physio-pathology and its systemic impact (liver cell/organ function and its systemic affects) Bio-imaging: non-invasive/continuous visualization of cell/organ function and its application for evaluation of cell/organ atmospheres and diagnosis/therapy

Degree Program	Major Field of Study (Education and Research Field)	Faculty Name and Email	Major Research Topics
		Professor Michiko Yuki yukimck@hs.hokudai.ac.jp	 Development of rehabilitation nursing skills Nursing program for deterioration prevention of older adults with chronic disease Disability prevention program among the community- dwelling older adults
			4) Nursing support to care-recipients and family caregivers at home
		Professor Rika Yano r-yano@med.hokudai.ac.jp	 Development of Nursing Care Outcome Model Visualization of Nursing Arts by Expert Nurses Study on Educational Strategies for Developing Nursing Skills
		Professor Katsuhiko Ogasawara oga@hs.hokudai.ac.jp	 Nursing informatics: ontology and knowledge system Tele-healthcare system and social health informatics Nursing economics and medical technology assessment
		Professor Taro Yamauchi taroy@med.hokudai.ac.jp	 -Fieldwork in small societies in developing countries 1) Global Health: basic human needs of local communities and QOL of local populations 2) Human Ecology: food and nutrition, physical activity, body size and composition, behavioral pattern 3) Child Health: nutritional status, growth and
		Professor Atsuko Ikeda AAraki@cehs.hokudai.ac.j p	 development, physical fitness, lifestyle 1) Epidemiological studies of Environmental Chemical Exposure and its effect on adverse health outcomes. 2) Birth cohort studies on environment and children's health 3) Indoor air quality and inhabitants' health
		Professor Naomi Sumi nsumi@hs.hokudai.ac.jp	 Standardization and development of programs for discharge planning and community medical cooperation. Research of care system and care management for cancer patients and their families. Development and evaluation of advance practice of clinical nursing specialists and education in CNS course.
		Associate Professor Naoko Miyajima miyajima@hs.hokudai.ac.j p	 Development and measurement of mental health nursing skills Research on the mental health of nurses A study of communication channels in nursing
		Associate Professor Mika Otsuki lasteroideb612@pop.med. hokudai.ac.jp	 Study of cognitive function Study of cognitive impairment of neurological diseases.
		Associate Professor Mikiko Iwamoto miki@hs.hokudai.ac.jp	 Development of the interprofessional ethics education program in the nursing graduate school. Research of Leadership Roles and Management Functions in Nursing.

Degree Program	Major Field of Study (Education and Research Field)	Faculty Name and Email	Major Research Topics
		Associate Professor	1) Developing a care program of social activities for the
		Michiyo Hirano	older people who require daily support
		mihirano@med.hokudai.ac	2) Developing a preventive care program for the
		.jp	community-dwelling older people
			3) Practice and competency of public health nurses
			working at prefecture and municipality public health
			centers
		Associate Professor	1) Sexual and Reproductive Health
		Yoshiko Kondo	2) Women's Health
		kondo.yoshiko@hs.hokuda	3) Midwifery
		i.ac.jp	4) Ethics related to Reproductive Health, Medicine and
			Technology
			5) Mental Health of women and family involved in
			Artificial Reproductive Technology
		Associate Professor	For people with chronic disease/chronic health problem
		Miho Sato	1) research on psychosocial experience
		m_sato@med.hokudai.ac.j	2) research on self-care/self-management
		р	3) research on foot health
		Associate Professor	1) Health and quality of life of children with special
		Akemi Matsuzawa	health care needs and their families in the
		matsuzawa@hs.hokudai.a	communities
		c.jp	 Support for raising children with special health care needs
			3) Evaluation of the quality of care and health care
			services for children with special health care needs and their families

DOCTORAL DEGREE PROGRAMS

Hokkaido University Graduate School of Health Sciences Doctoral Dissertation Assessment Criteria

- 1. Basic Requirements for Dissertation
- 1) Doctoral dissertations must reflect sufficient academic values and exhibit advanced creativity to demonstrate that the authoring student meets the level of academic achievement, competence and quality stipulated in the *Hokkaido University Postgraduate Degree Programs Degree Awarding Principles* and the *Graduate School of Health Sciences Diploma Policy* to be conferred a doctoral degree.
- 2) Doctoral degree candidates must be the sole author of their dissertations. Any part of a submitted dissertation by a candidate must not have infringed on the originality and ideas of research papers published or research presentations made by persons other than the dissertation candidate/author.
- Doctoral dissertations must not infringe on copyright and the right of publicity of persons other than the dissertation candidates/authors.
- 4) Doctoral dissertations must be written based on the research conducted while abiding by the *Code of Conduct for Scientists at Hokkaido University.*
- 2. Dissertation structure

The structure of the dissertation should meet the following requirements.

- 1) An adequate title is given to the dissertation.
- 2) The dissertation discusses the research background and clarifies the research purposes.
- 3) The dissertation describes the research methods which align with the research purposes.
- 4) Research results are graphically and adequately presented using such as charts, graphs and diagrams.
- 5) Discussion is generated in accordance with the research results.
- 6) The dissertation appropriately draws a conclusion which answers defined research purposes.
- 7) References are cited appropriately.
- 8) The dissertation covers all necessary stages above and has them appropriately chaptered.

3. Dissertation content

The content of the dissertation will be reviewed with the following criteria in mind. It is however up to the examination committee to decide to which criterion they give more weight.

- The committee finds in the dissertation the academic values of international standards in the concerned discipline. Academic values mean a contribution to advancing the research and development in the concerned discipline such as discovering unknown phenomena and matters, establishing and developing new analysis methods and theories and creating new academic interpretations and concepts.
- 2) The dissertation employs appropriate research topics and thematic research methods grounded on previous research and exhibits advanced creativity.
- 3) Research data essential to the research topics and methods have been collected and processed.
- 4) The process of the research project is elaborated in detail.
- 5) The dissertation provides in-depth analyses and detailed interpretation of data in the figures and tables.
- 6) Coherent structure and content are given which have helped lead to compelling conclusions.

Program Structure: Courses and Credits

AY2023 Admitted Doctoral Students

Division of Health Sciences Common Courses

			Number of Course Credit				Class Format			
Major Field of Study	Course	Eligible Year of Course	Required	Required Elective	Elective	Not Specified	Lecture	Seminar	Experiment/p ractical	Remarks
Common Courses	Advanced Study of Medical Management		2				0			
Com Cou	Total available credits from 1 course	-	2	0	0	0		-		

Doctoral Degree Program in Health Sciences

			Numb	er of C	ourse	Credit	Cla	ss For	mat			
Major Field of Study	Course	Eligible Year of Course	Required	Required Elective	Elective	Not Specified	Lecture	Seminar	Experiment/p ractical	Remarks		
<u>a</u>	Advanced Study of Medical Imaging Science	1		2			0					
dic	Advanced Seminar on Medical Imaging Science	1		2				0				
Me Ces	Advanced Study of Biomedical Science and Technology	1		2			0					
nced Me Sciences	Advanced Seminar on Biomedical Science and Technology	1		2				0				
Sci	Advanced Study of Charged Particle Therapy	1		2			0			Complete a set of Advanced		
Advanced Medical Sciences	Advanced Seminar on Charged Particle Therapy	1		2				0		Study (2 credits or more) and Advanced Seminar (2 credits		
Ă	Total available credits from 6 courses	-	0	12	0	0 0 -		-	-	or more) under the same name		
0	Advanced Study of Rehabilitation Science	1		2			0			(covering the same course		
sive Ce	Advanced Seminar on Rehabilitation Science	1		2				0	0	0		topic) from a Major Field of
ehensive Sciences	Advanced Study of Health Evaluation	1		2			0			Study of your choice.		
Sch	Advanced Seminar on Exercise on Health Evaluation	1		2				0				
lft np	Advanced Study of Health Science Management	1		2			0					
Comprehensive Health Sciences	Advanced Seminar on Health Science Management	1		2				0				
° 1	Total available credits from 6 courses	-	0	12	0	0	-					
Idy Idy	Health Sciences	1, 2, 3	6					0		Complete the "Supervised		
Supervised Individual Study	Total available credits from 1 course	-	6	0	0	0		-		Individual Research in Health Sciences" if your Doctoral Degree Program is "Health Sciences".		

Doctoral Degree Program in Nursing

	Course		Numb	er of C	ourse	Credit	Cla	ss For	mat	
Major Field of Study			Required	Required Elective	Elective	Not Specified	Lecture	Seminar	Experiment/p ractical	Remarks
	Advanced Study of Fundamental Nursing Science	1		2			0			
ŝ	Advanced Seminar on Fundamental Nursing Science	1		2				0		Complete a pat of Advanced
۳ ۳	Advanced Study of Clinical Nursing Science	1		2			0			Complete a set of Advanced Study (2 credits or more) and Advanced Seminar (2 credits
Sciences	Advanced Seminar on Clinical Nursing Science	1		2						
Ň	Advanced Study of Social Health and Nursing Science	1		2			0			or more) under the same name
ing	Seminar on Social Health and Nursing Science	1		2				0		(covering the same course
Nursing	Advanced Study of Women's Health and Nursing Science	1		2			0			topic).
Z	Advanced Seminar on Women's Health and Nursing Science	1		2				0		(opio).
	Total available credits from 8 courses		0	16	0	0		_		
	Nursing Science	1, 2, 3	6					0		Complete the "Supervised individual Research in Nursing
Supervis Individual	Total available credits from 1 course		6	0	0	0		_		Science" if your Doctoral Degree Program is "Nursing".

Name of Degree	The degree of Doctor of Health Sciences The degree of Doctor of Nursing						
Course Type, Nur	nber of Credits Required and Other Requirements for Completion	Semester and clas	s hour duration				
	n review and final exams conducted by the Graduate School of Health of 12 credits or more including 1 Common Course, a set of an Advance	Number of weeks per semester	15 weeks				
Study (2 credits or more) a	and an Advanced Seminar (2 credits or more) under the same name topic) and 1 Supervised Individual Research course.	Class hour duration	Lecture/seminar: 90 minutes Experiment/practi cal training: 180 minutes				

Graduate School of Health Sciences Doctoral Degree Program Courses and Teaching Staff in Charge

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		*Not offered in AY2023		As c	of April 1, 2023
Degree Program	Major Field of Study	Course	Teaching Staff in Charge	Credit	When Course is Offered (Year & Semester)
Common Courses		Advanced Study of Medical Management	OGASAWARA Katsuhiko	2	Year1 Sem1
	Advanced Medical Sciences	Advanced Study of Medical Imaging Science	KAMISHIMA Tamotsu, SUGIMORI Hiroyuki, KAGA Sanae, TAKASHIMA Hiroyuki	2	Year1 Sem1
	Science	Advanced Seminar on Medical Imaging Science	KAMISHIMA Tamotsu, SUGIMORI Hiroyuki, KAGA Sanae, TAKASHIMA Hiroyuki	2	Year1 Sem2
	Medical	Advanced Study of Biomedical Science and Technology	ISHIZU Akihiro, KAMISHIMA Tamotsu, YAMAGUCHI Hiroyuki, Shu-Ping HUI, OZAKI Michitaka, TAMURA Shogo, FUKUNAGA Hisanori, MATSUYA Yusuke	2	Year1 Sem1
	dvanced	Advanced Seminar on Biomedical Science and Technology	ISHIZU Akihiro, KAMISHIMA Tamotsu, YAMAGUCHI Hiroyuki, Shu-Ping HUI, OZAKI Michitaka, TAMURA Shogo, FUKUNAGA Hisanori, MATSUYA Yusuke	2	Year1 Sem2
Sciences	∢	Advanced Study of Charged Particle Therapy*	ТВА	2	Year1 Sem1
ien -		Advanced Seminar on Charged Particle Therapy*	ТВА	2	Year1 Sem2
ealth Sc	ciences	Advanced Study of Rehabilitation Science	CHIKENJI Takako, TOHYAMA Harukazu, MAEJIMA Hiroshi, OTSUKI Mika, SAMUKAWA Mina, MIYAZAKI Taisuke, HASEGAWA Naoya	2	Year1 Sem1
Program in Health	Health	Advanced Seminar on Rehabilitation Science	CHIKENJI Takako, TOHYAMA Harukazu, MAEJIMA Hiroshi, OTSUKI Mika, SAMUKAWA Mina, MIYAZAKI Taisuke, HASEGAWA Naoya	2	Year1 Sem2
Progr	ensive	Advanced Study of Health Evaluation	OGASAWARA Katsuhiko, TBA, CHIBA Hitoshi, YAMAUCHI Taro, IKEDA Atsuko	2	Year1 Sem1
Jegree	prehe	Advanced Seminar on Exercise on Health Evaluation	OGASAWARA Katsuhiko, TBA, CHIBA Hitoshi, YAMAUCHI Taro, IKEDA Atsuko	2	Year1 Sem2
al	Lou Lou		TBA	2	Year1 Sem1 Year1 Sem2
Advanced Seminar on Exercise on Health Evaluation Advanced Study of Health Science Management* TB/ Advanced Seminar on Health Science Management* TB/ Advanced Seminar on Health Science Management* TB/ Advanced Individual Research in Health Sciences Supervised Individual Research in Health Sciences Supervised Individual Research in Health Sciences KAI Shu TO YO IKE SUP Supervised Individual Research in Health Sciences SUP SUP SUP SUP SUP SUP SUP SUP		Supervised Individual Research in Health Sciences	Shu-Ping HUI, OZAKI Michitaka, TOHYAMA Harukazu, MAEJIMA Hiroshi, CHIKENJI Takako, YOKOSAWA Koichi, OGASAWARA Katsuhiko, YAMAUCHI Taro, IKEDA Atsuko, SUGIMORI Hiroyuki, TAKASHIMA Hiroyuki, FUKUNAGA Hisanori, KAGA Sanae, SAKURAI Toshihiro, TAMURA Shogo, SAMUKAWA Mina, MIYAZAKI Taisuke, HASEGAWA Naoya, OTSUKI Mika, OKUBO Torahiko, MASUDA Sakiko, SAWAMURA Daisuke, YOSHIDA Kazuki, TSUTSUMI Kaori, KASAHARA Satoshi, ISHIDA Tomoya, KOSHINO Yuta, YOSHIMURA Takaaki	6	Year1&2&3 Full Year
			YANO Rika, OZAKI Michitaka, SUMI Naomi, SATO Miho	2	Year1 Sem1
			YANO Rika, OZAKI Michitaka, SUMI Naomi, SATO Miho	2	Year1 Sem2
		Advanced Study of Clinical Nursing Science Advanced Seminar on Clinical Nursing Science	YUKI Michiko, MIYAJIMA Naoko, OTSUKI Mika, HIRANO Michiyo YUKI Michiko, MIYAJIMA Naoko, OTSUKI Mika, HIRANO Michiyo	2	Year1 Sem1 Year1 Sem2
Nursing	Sciences	Advanced Study of Social Health and Nursing Science	TADAKA Etsuko, EBINA Yasuhiko, OGASAWARA Katsuhiko, IKEDA Atsuko, YAMAUCHI Taro, KONDO Yoshiko, HIRANO Michiyo, MATSUZAWA Akemi	2	Year1 Sem1
ogram in	Nursing S	Advanced Seminar on Social Health and Nursing Science	TADAKA Etsuko, EBINA Yasuhiko, OGASAWARA Katsuhiko, IKEDA Atsuko, YAMAUCHI Taro, KONDO Yoshiko, HIRANO Michiyo, MATSUZAWA Akemi	2	Year1 Sem2
e Prc	2	Advanced Study of Women's Health and Nursing Science	EBINA Yasuhiko, KONDO Yoshiko, MATSUZAWA Akemi	2	Year1 Sem1
Degre		Advanced Seminar on Women's Health and Nursing Science	EBINA Yasuhiko, KONDO Yoshiko, MATSUZAWA Akemi	2	Year1 Sem2
Doctoral Degree Program in Nursing	;	Supervised Individual Research in Nursing Science	EBINA Yasuhiko, OZAKI Michitaka, YUKI Michiko, YANO Rika, SUMI Naomi, TADAKA Etsuko, OGASAWARA Katsuhiko, YAMAUCHI Taro, IKEDA Atsuko, MIYAJIMA Naoko, OTSUKI Mika, IWAMOTO Mikiko, SATOH Miho, HIRANO Michiyo, KONDO Yoshiko, MATSUZAWA Akemi, COLLEY Noriyo	6	Year1&2&3 Full Year

Note: Course names and teaching staff members are subject to change.

Graduate School of Health Sciences Division of Health Sciences Doctoral Program Supervising Faculty

As of April 1, 2023

Degree Program	Major Field of Study (Education and	Faculty Name and Email	Major Research Topics
	Research Field)	Professor Tamotsu Kamishima Ktamotamo2@hs.hokudai.ac.j p	 Research on automatic detection of joint space narrowing using radiography Research on quantitative evaluation of inflammatory joint disease activity using ultrasound and MR images
		Professor Hiroyuki Yamaguchi hiroyuki@med.hokudai.ac.jp	 3) Research on the quantification of osteoporosis 1) Persistent infection of intercellular pathogens and its molecular basis 2) Adaptive strategy of human pathogens for their surviving in natural environments 3) Analysis of symbiosis among microbes focused on an interaction of unculturable bacteria with
		Professor Akihiro Ishizu aishizu@med.hokudai.ac.jp Professor Shu-Ping Hui keino@hs.hokudai.ac.jp	amoebae 1)Pathology and pathogenesis of vasculitis 2)Biophylaxis and its disorders 3)Analysis of immune cell function 1) Research on plasma lipoproteins and bioactive lipids 2) Research on dyslipidemia such as ectopic lipid storage disease
Doctoral Degree	Advanced		3) Research on oxidative stress response and regulation of mitochondrial function4) Research and development of functional foods and elucidation of mechanism of action
Program in Health Sciences	Medical Sciences	Professor Michitaka Ozaki ozaki-m@med.hokudai.ac.jp	 Analysis of molecular mechanism of biological stress, stress response and adaptation Liver physio-pathology and its systemic impact (a comprehensive study of cell/organ function and whole body conditions) Spatio-temporal bio-analysis by non-invasive visualization and monitoring of molecular function / cellular atmosphere and, its clinical application
		Associate Professor Sanae Kaga sanae@med.hokudai.ac.jp	 Assessment of cardiovascular diseases using ultrasonography Assessment of age-related changes in cardiac shape and function Study of method for standardization and accuracy control of ultrasonographic examination
		Associate Professor Hiroyuki Sugimori sugimori@hs.hokudai.ac.jp	 Development of deep learning–based diagnostic assistance programs Development of quantitative image processing algorithms for medical images Medical image analysis with computer vision and programming
		Associate Professor Toshihiro Sakurai <u>sakura@hs.hokudai.ac.jp</u>	 Plasma lipid and lipoprotein metabolism Development of clinical examination and analytical methods Functional food chemistry for health

Degree Program	Major Field of Study (Education and Research Field)	Faculty Name and Email	Major Research Topics
		Associate Professor Shogo Tamura stamura@hs.hokudai.ac.jp	 Elucidation of the bone marrow hematopoietic microenvironment Development of bone marrow organoids Molecular pathophysiology of congenital blood coagulation disorders
		Associate Professor Hiroyuki Takashima hirotakashima@pop.med.hok udai.ac.jp	 Quantitative image analysis for various disorders Study for metabolism of muscle and bone with aging and inflammation Development of image analysis for musculoskeletal disorders
		Associate Professor Hisanori Fukunaga hisanori.fukunaga@hs.hokud ai.ac.jp	 Elucidation of tissue-sparing effect following spatially fractionated radiation and its application for radiotherapy Biochemical analysis on interactions between biomolecules damaged by radiation
		Professor Harukazu Tohyama tohyama@med.hokudai.ac.jp	 Rehabilitation for the anterior cruciate ligament injuries Biomechanics for sports injuries Biology and biomechanics of tendon and ligament
		Professor Hiroshi Maejima maeji@hs.hokudai.ac.jp	 Synaptic modification induced by exercise and motor learning. Synaptic plasticity induced by neurotrophin expression. Health promotion and prevention of degenerative shapped in the elderby.
		Professor Takako Chikenji chikenji@pop.med.hokudai.ac	 change in the elderly. 1) Cell senescence in regeneration and inflammatory disease 2) Mesenchymal progenitors/stromal cells in inflammatory disease
	Comprehensive	.jp Associate Professor Mina Samukawa mina@hs.hokudai.ac.jp	 Machiniatory disease Mechanisms and prevention of sports injuries Effects of therapeutic exercises Warm-up and physical performance
	Health Sciences	Associate Professor Taisuke Miyazaki miyazaki@med.hokudai.ac.jp	 Molecular mechanism of neurotransmitter-specific contact between pre- and postsynapse Molecular mechanism of excitatory and inhibitory network formation in the cerebellum Zone-specific neuronal circuit in the cerebellar cortex
		Associate Professor Naoya Hasegawa n_hasegawa@hs.hokudai.ac.j p	 Rehabilitation for movement disorders Motor learning on postural control and Effects of
		Professor Koichi Yokosawa yokosawa@med.hokudai.ac.j p	 Non-invasive measurements and imaging of human cognitive functions Inter-brain interaction during communication Evaluation of mental states by spatiotemporal-analyzing functional information of human brain

Degree Program	Major Field of Study (Education and Research Field)	Faculty Name and Email	Major Research Topics
		Professor Katsuhiko Ogasawara oga@hs.hokudai.ac.jp	 Hospital management and health system research Tele-healthcare system and social health informatics Medical technology assessment and health economics
		Professor Taro Yamauchi taroy@med.hokudai.ac.jp	 -Fieldwork in small societies in developing countries 1) Global Health: basic human needs (BHN) & QOL of local populations/societies 2) Child Health: food & nutrition, physical activity, growth & development, physical fitness, behavioral pattern 3) Transdisciplinary Research: participatory action research by local children to co-create healthy community (e.g., water, sanitation and hygiene (WASH))
		Professor Atsuko Ikeda AAraki@cehs.hokudai.ac.jp	 1)Epidemiological studies of Environmental Chemical Exposure and its effect on adverse health outcomes. 2) Birth cohort studies on environment and children's health 3) Indoor air quality and inhabitants' health
		Professor Shu-Ping Hui keino@hs.hokudai.ac.jp	 Research on lipoproteins, lipid peroxides, fatty acid and biologically active lipids (plasmalogen, lysophospholipid, cardiolipin) Development of biomarkers and testing reagents Research on NASH, lipid droplets and functional foods
		Associate Professor Mika Otsuki lasteroideb612@pop.med.hok udai.ac.jp	 Clinical neuropsychological study on cognitive impairment Interdisciplinary research of mechanism of language Study on mechanism of cognitive impairment integrating functional images and electrophysiological study
		Professor Yasuhiko Ebina ebiyas@hs.hokudai.ac.jp	 1) Research on women's mental health care 2) Research on support for mothers and children who requires social and emotional help 3) Research on women's cancer awareness, prevention, and screening
Doctoral Degree Program in Nursing	Nursing Sciences	Professor Etsuko Tadaka e_tadaka@pop.med.hokudai. ac.jp	 The generation of evidence and development of preventive approaches related to health/longevity The development of new theories, techniques, indicators, and manufacturing in community care systems/programs Empirical research on the prevention of social isolation and loneliness and community development The setting and solving agenda related to public and community nursing in the next society
		Professor Michitaka Ozaki ozaki-m@med.hokudai.ac.jp	 Analysis of molecular mechanism of biological stress response and adaptation Liver physio-pathology and its systemic impact (a comprehensive study of cell/organ function and

Degree Program	Major Field of Study (Education and Research Field)	Faculty Name and Email	Major Research Topics
			 whole body conditions) 3) Optic imaging: non-invasive visualization and monitoring of molecular function / cellular atmosphere and its application for diagnosis and therapy
		Professor Michiko Yuki yukimck@hs.hokudai.ac.jp	 Development of rehabilitation nursing skills Nursing program for deterioration prevention of older adults with chronic disease Disability prevention program among the community-dwelling older adults Nursing support to care-recipients and family caregivers at home
		Professor Rika Yano r-yano@med.hokudai.ac.jp	 Development of Nursing Care Outcome Model Visualization of Nursing Arts by Expert Nurses Study on Educational Strategies for Developing Nursing Skills
		Professor Katsuhiko Ogasawara oga@hs.hokudai.ac.jp	 Nursing informatics: ontology and knowledge system Tele-healthcare system and social health informatics Nursing economics and medical technology assessment
		Professor Taro Yamauchi taroy@med.hokudai.ac.jp	 -Fieldwork in small societies in developing countries 1) Global Health: basic human needs of local communities and QOL of local populations 2) Human Ecology: food and nutrition, physical activity, body size and composition, behavioral pattern 3) Child Health: nutritional status, growth and development, physical fitness, lifestyle
		Professor Atsuko Ikeda AAraki@cehs.hokudai.ac.jp	 Epidemiological studies of Environmental Chemical Exposure and its effect on adverse health outcomes. Birth cohort studies on environment and children's health
		Professor Naomi Sumi nsumi@hs.hokudai.ac.jp	 3) Indoor air quality and inhabitants' health 1) Standardization and development of programs for discharge planning and community medical cooperation 2) Research of care system and care management for cancer patients and their families 3) Development and evaluation of advance practice of clinical nursing specialists and education in CNS course 4) Development of cancer education for students and
		Associate Professor Naoko Miyajima miyajima@hs.hokudai.ac.jp	 adolescents 1) Qualitative Research on Life Episodes of mental disorder before the Onset 2) Improving the Cognitive Ability of the Elderly by
		Associate Professor Mika Otsuki lasteroideb612@pop.med.hok	Developing the Communication Skills of Nurses 1) Clinical neuropsychological study on cognitive impairment 2) Interdisciplinary research of mechanism of

Degree Program	Major Field of Study (Education and Research Field)	Faculty Name and Email	Major Research Topics
		udai.ac.jp	language 3) Study on mechanism of cognitive impairment integrating functional images and electrophysiological study
		Associate Professor Mikiko Iwamoto miki@hs.hokudai.ac.jp	 Development of the interprofessional ethics education program in the nursing graduate school. Research of Leadership Roles and Management Functions in Nursing.
		Associate Professor Michiyo Hirano mihirano@med.hokudai.ac.jp	 Developing a care program of social activities for the older people who require daily support Developing a preventive care program for the community-dwelling older people Practice and competency of public health nurses working at prefecture and municipality public health centers
		Associate Professor Yoshiko Kondo kondo.yoshiko@hs.hokudai.a c.jp	 Sexual and Reproductive Health Women's Health Midwifery Ethics related to Reproductive Health, Medicine and Technology Mental Health of women and family involved in Artificial Reproductive Technology
		Associate Professor Miho Sato m_sato@med.hokudai.ac.jp	For people with chronic disease/chronic health problem 1) research on psychosocial experience 2) research on self-care/self-management 3) research on foot health
		Associate Professor Akemi Matsuzawa matsuzawa@hs.hokudai.ac.jp	 Health and quality of life of children with special health care needs and their families in the communities Support for raising children with special health care needs Evaluation of the quality of care and health care services for children with special health care needs and their families