I Master's Program of the Graduate School of Future University Hakodate: Outline of the Selection Process for International Students Applying to Enter in September 2020 or April 2021

1 Recruitment of students
For the Graduate School of Systems Information Science, with a specialization in systems information science

Entrance in April, 2021   A few International students will be accepted
Entrance in September, 2020   A few international students will be accepted

2 Application period and entrance examination dates
Period of filing application for preliminary assessment of qualifications

	June 1 (Mon.) - June 8 (Mon.), 2020
Application period	June 22 (Mon.) –July 3 (Fri.), 2020
Entrance examination dates	August 5 (Wed.) - August 6 (Thu.), 2020
Announcement of qualified entrants	August 17 (Mon.), 2020

3 Site of entrance examination
Future University Hakodate
116-2 Kamedanakano-cho, Hakodate, Hokkaido, Japan 041-8655

・Hakodate Bus Route 55A・C bound for Akagawa
Board the bus in front of Hakodate Station.
Get off at the stop in front of Future University Hakodate.   45 minutes

Board the 55A・C bus at Goryokaku.
Get off at the stop in front of Future University Hakodate.   25 minutes

・Hakodate Bus Route 55F bound for Akagawa
Board the bus at Goryokaku
Get off at the stop in front of Future University Hakodate.   25 minutes

II Application and selection process

1. Required qualifications of applicants
A person who can apply for special admission to the graduate school as an international student must satisfy all of the following conditions (1) and (2):

(1) The person must have a student visa for foreigners who study at universities in Japan, as specified in the Immigration-Control and Refugee-Recognition Act or must acquire this visa by the time of entrance to the university.

(2) The person must satisfy any of the following criteria:

(a) Has graduated from university or will have graduated from university by March 31, 2021.

(b) Has a bachelor's degree recognized by the National Institution for Academic Degrees or will receive such a degree by March 31, 2021.

(c) Has finished 16 years of schooling overseas or will have finished this schooling by March 31, 2021

(d) Has completed 16 years of schooling in the school education system of a foreign country by completing in Japan subjects offered in correspondence courses by a school in this foreign country, or will have completed such courses by March 31, 2021.

(e) Has completed or will complete a foreign university's course of study in Japan that is recognized by the Minister of Education, Culture, Sports, Science and Technology. The course of study must be for a university whose education facilities are recognized as part of the foreign country's educational system (The completed course of study is limited to a 16-year course of study in the foreign country's school education system, such as 12 years of school and 4 years of university.) by March 31, 2021.

(f) Has been or will be granted a bachelor's degree or equivalent by completing a course (including a completion of a course by studying subjects of correspondence education given by a foreign country's school in Japan or completion of a course at an educational facility positioned by the foreign country's educational system and assigned by the previous provision) which term of study is 3 or more years at a foreign university or other school (which comprehensive circumstances of research activities are evaluated by the foreign country's government, organization accredited by concerned agents, or equivalent one separately designated by the MEXT) by March 31, 2021.

(g) Has completed a professional course of study in a special training school (in a school that requires four or more years to finish and satisfies criteria of the Minister of Education, Culture, Sports, Science and Technology.) The course of study the student completes should be one recognized by the Minister of Education, Culture, Sports, Science and Technology. Because a student's training and knowledge become obsolete over time, the student should have completed the course of study after the date specified by the Minister of Education, Culture, Sports, Science and Technology. This date sets the limit for the time that can elapse between completion of the course of study and entrance into graduate school.

(h) Is designated by the Minister of Education, Culture, Sports, Science and Technology (in accordance with Ministry of Education, Notification No. 5, 1953.)

(i) Is recognized in this graduate school, through an assessment of the individual's qualifications, as having academic ability equivalent to or better than that of a university graduate. This person must be 22 years old by March 31, 2021.

Note 1   Among the above, (2) (i)applies to persons who do not have any university graduate qualifications such as a degree from a junior college, a high school, technical school, a vocational school or other post-secondary school of this type.. A person who wants to apply as qualified according to the condition in (2) (i)must have his or her qualifications assessed in advance. For details, see II-3, 'Preliminary assessment of applicant qualifications.'

Note 2   For persons entering the graduate school in September 2020, please replace March 31, 2021 with September 17, 2020.

2.   **Consultation with faculty member before making a formal application**
Before applying, please consult with the faculty member whom you would like to have direct your research after entering the graduate school and get his or her agreement with your plan of study. Please contact the professor at edu@fun.ac.jp

3.   **Preliminary assessment of applicant qualifications**
Regarding the application qualification condition (2) (i)above, persons in this category will have their qualifications assessed before they make a formal application. Persons in this category should attach the documents in (1) below to their application and make their application within the prescribed application period. At this point, it is not necessary to send payment for the fee for the entrance examination.

(1) Application documents
　(a) Application for preliminary examination of qualifications
　(b) Curriculum vitae
　(c) Research plan
　(d) Transcript of grades from last school attended
　※ A person who went to a school other than a university or junior college, should submit a transcript
　　　of his/her high school grades as well as a transcript from the last school attended
　(e) A certificate of graduation or completion from the last school attended
　(f) A statement and summary of research results
　(g) A document summarizing results achieved at work (only for persons applying who have full-time jobs)

　For points to keep in mind when filling out the various parts of the application, please see
　'4. Application Documents.'

(2)　How to submit your application
　Please submit your application as specified in '2. How to apply' in 'III. Points to keep in mind in applying.'

(3)　Announcement of results of application
　An applicant will be informed in writing of the results of his or her application by June 20(Sat.), 2020.
　Consequently, by the last day of the application period, persons who have received permission should
　submit the documents from '4 Application Documents' below that they have not yet submitted.

4. Application Documents

Application document	Documents you must submit		Points to keep in mind when filling in your application
	Applicants under criteria (2) (a) to (h)	Applicants under criterion (2) (i)	
Application slip	✓	✓	Please fill in the required items in the prescribed form, and get confirmation from the professor whom you plan to have as an adviser. We will send your entrance examination slip and notification of whether you qualified for admission to your address on this form. Please fill in your guarantor in your home country and your guarantor in Japan. Attach a 4cm by 3cm, frontal ID photo taken within three months before your application. Attach the photo to the appropriate place on the application form. Do not wear a hat in the photo.
Curriculum vitae	✓	Preliminary application document	Please fill in the required items in the prescribed form.
Research plan	✓	Preliminary application document	Please use the designated form downloaded from the university's website; Do not change the format and font style/size. It is allowed to insert figures and tables, and fonts in figures and tables should be the same as used in texts. The research theme must be thoroughly discussed with a expected supervisor beforehand. In the case you cite other papers and documents, please insert the list of references at the end of the research plan. For each section, there is no limit on the number of characters, but clear and comprehensive presentation is required. Please submit a research plan printed on the one side of paper sheet.
Grade transcript from last school attended	✓	Preliminary application document	Please submit this document in a sealed envelope. It should have been issued within three months before your application. When there are courses you will get transfer credits for, submit a list of these courses along with your grade transcript at the university you are transferring from.
Certificate of graduation (or planned graduation) from last school attended	✓	Preliminary application document	Please submit this document in a sealed envelope. It should have been issued within three months before your application.
Research results and summary	Submit if available	Preliminary application document	Any of the following achievements (1) to (4) are considered research results, and an applicant can submit more than one achievement. (1) Research paper (a paper presented at an academic conference, a graduation thesis at university or college, etc.) N.B.: For an academic conference paper, attach abstract and certification of proving you to have attended a conference, (2) Research report (such as final result report of public project), (3) Document that binds design works etc. in files, (4) Software and/or hardware and its manuals developed an applicant by oneself. Notes: ・Please attach a summary for each achievement up to 2 pages of A4 paper in any format. ・If research result was obtained by an applicant and other collaborator(s), submit a document to make the applicant's role and contribution clear, which should be approved and signed by co-authors and collaborators.
Recommendation letter (Principal, president, or faculty dean of last school attended)	✓	✓	Any format is all right
Adviser's recommendation letter	✓	✓	Any format is all right
Document describing work results	Submit if available	Preliminary application document	Fill in the required items in the prescribed form. Only for applicant with a full-time job
Document verifying your payment of entrance examination fee	✓	✓	-
Copy of passport	✓	✓	Please submit a passport copy in which a photo of your face is recognizable.
Documents certifying level of proficiency in Japanese	Submit if available	Submit if available	–
TOEFL or TOEIC or IELTS score certification	✓ a non-native English speaker	✓ a non-native English speaker	Not necessary for applicants whose mother tongue is English

Note: As necessary, documents other than the above may be required.

5. How entrants to the graduate school are selected

Assessment of documents submitted, interviews

(※ If necessary, instead of an interview, questions can be asked by using a telecommunication tool, e.g., Skype and Whereby.)

6. Dates of entrance examination

The entrance examination will be held on August 5-6 (Wed-Thu.), 2020

Regarding the interview, we will inform applicants later of the exact schedule.

III   Points to keep in mind in applying

1. Entrance examination fee

30,000 yen

You should send 30,000 yen to the account below. Please submit a document certifying that you sent this payment. You must bear any service charges related to the money transfer.

Bank name: Hakodate Business Div., Michinoku Bank
Account number: (Ordinary account) 091-2607311
Account name: Yasuhiro Katagiri, Director General Future University Hakodate, Kenteiryo
SWIFT Code: MCHIJPJT
Period for making payment for entrance examination： June 22(Mon.) –July 3(Fri.), 2020
(The transfer **must** arrive within this period)

Note: Once the test fee has been paid, it cannot be refunded for any reason.

2. How to apply

Put the application documents in the university's prescribed envelope and send the envelope by post or bring it to the university.

The documents must arrive by the final day of the application period.

Address to send the documents:
Education/Library Affairs Section
Education Affairs Department
University Office
Future University Hakodate
116-2 Kamedanakano-cho
Hakodate, Hokkaido, Japan 041-8655
Tel: 81-138-34-6419 (from overseas), 0138-34-6419 (within Japan)

If you bring your application to the university, please note that we only accept applications from 9 am to 5 pm on regular working days. The university office is closed on Saturdays, Sundays, and holidays, so we cannot accept applications brought in on these days.

3. Other

(1)   If any part of the application is missing, we cannot accept the application.
(2)   You cannot change the content of any documents after you have submitted them.
(3)   **Once you have sent the application documents and entrance examination fee to the university, we cannot return either of them to you for any reason.**
(4)   If an applicant lies on his or her application, the applicant's permission to study at the university will be revoked, even if the applicant has already entered the university.
(5)   When an applicant has a disability that requires special treatment or facilities on the entrance test or during the applicant's study at the university, the applicant should inform the university of this fact before applying.

IV Points to keep in mind regarding the test

(1) For the interview, please go to the waiting room for the interview by the time designated for your interview and wait there until called for your interview.
(2) Please turn off in advance any mobile phone or PHS (Personal Handyphone System) devices or wearable devices you have before you enter the test room.
(3) There is no place to buy lunch at the university on Saturdays, Sundays, and holidays, so please prepare and bring your own lunch. (There are no stores near the university that sell lunches or food.)
(4) The university will not find lodging for you, so please find lodging on your own.

V Announcement of successful entrants

1. Date of announcement of successful entrants   August 17 (Mon.), 2020

2. How announcement of successful entrants will be made.

   Successful applicants will be notified in writing by post.

VI Procedures for entering the university

1. Period for completing procedures to enter the university

 August 17 (Mon.) to August 31 (Mon.), 2020

2. How to complete procedures for entering the university

   Please follow the 'Guide to procedures for entering the university' that is included in the letter informing you that you qualified to enter the university's graduate school.

(1) Entrance fees

   Please pay the entrance fee in accordance with the payment notice included in the letter informing you of your successful entrance. Please pay within the period for completion of entrance procedures. The current amounts for the entrance fee are the following. Please note that these amounts may change in 2021.

   (a) 226,000 yen for persons from the Oshima and Hiyama districts of Hokkaido
   (b) 310,000 yen for all other persons

   (Note) Any applicant or any applicant with an equivalent to a parent registered continuously as a resident of any of the cities, towns, or villages below before or from April 1, 2020 will be considered a resident of Oshima or Hiyama District.

   (The applicant should submit a copy of the certificate of residence for himself, herself, or the parent at the time of carrying out the university entrance procedures.)

   Oshima District:
    Cities- Hakodate, Hokuto
    Towns- Nanae, Matsumae, Fukushima, Shiriuchi, Kikonai, Shikabe, Mori, Yakumo, and Oshamambe

    Hiyama District
    Towns- Esashi, Kaminokuni, Assabu, Otobe, Okushiri, Imakane, and Setana

(2) Fee for injury benefit insurance for student education and research, and fee for compensation insurance for student education and research. The current amounts are as follows, but they may change in 2021.
   (a) Student education and research injury benefit insurance fee   1,750yen (for two years)
   (b) Student education and research compensation insurance fee   680yen (for two years)

3. Points to keep in mind in completing entrance procedures

(1) Persons who do not complete the entrance procedures within the prescribed period will be refused entrance to the university
(2) Please confirm that you submit all the required documents. It will be unacceptable if any are missing, and you will be unable to complete entrance procedures.
(3) Any required documents or items that arrive after the end of the period for completing entrance procedures will not be accepted.
(4) Once you have sent the entrance procedure documents and entrance examination fee to the university, we cannot return either of them to you for any reason.

VII   Other

1. Tuition

The current amount of tuition is the following, but this amount may change in 2021.
　(a) Amount (annual tuition fee)　535,800 yen
　(b) Method of payment
　　　Payment for your annual tuition will be divided evenly between the two semesters, with 267,900 yen being required for each semester. Please pay your tuition for the first semester by the end of April and your tuition for the second semester by the end of October.

2. Scholarships, tuition exemptions, and boarding houses and apartments

Regarding these, please contact the person in the university office's education affairs department who is in charge of student support and job hunting. (E-mail: stu@fun.ac.jp)

3. Classes after admission
　The classes for master's program are given in Japanese or English.　See the following URL for the details of the subjects:　https://www.fun.ac.jp/en/graduate-school/syllabus

VIII   Master's program faculty advisers and their research areas, Description of research domains

1.   List of faculty advisers for the master's program and their research areas

※ Research domains: MA Media Architecture   ICT Advanced ICT   MD Media Design   CS Complex Systems Information
II   Intelligent Information Systems

Faculty Member		Research domain	Research areas
Professor	ITO Kiyohide	MD II	Biological psychology, psychology of visual disabilities, human interface, cognitive science
Associate Professor	ITO Kei	MA ICT	Software engineering, Information Education Systems
Professor	INAMURA Hiroshi	MA	mobile computing, system software for smart devices, mobile/sensor network and their security
Professor	VALLANCE,Michael	MA	Task design in 3D immersive virtual learning environments
Professor	OSAWA Eiichi	II MA	Artificial intelligence, autonomous agents, large-scale multi-agent systems, collaborative robots, complex network
Professor	OBA Michiko	MA ICT	Software engineering, Intellectual behavior analysis, Documentation system, Education support system
Professor	OKAMOTO Makoto	MD ICT	Information design, interaction design, scenario-based design, human interface
Associate Professor	OKUNO Taku	MA ICT	Software engineering, Web services technology
Associate Professor	KOJI Kato	II	Medical Support System, Cyber Space
Associate Professor	KATORI Yuichi	CS	Mathematical model, Computational neuroscience, Neural network
Professor	KAWAGUCHI Satoshi	CS	Statistical mechanics, nonlinear physics
Professor	KAWAGOE Toshiji	CS	Experimental economics, game theory, artificial markets
Professor	KAWASHIMA Toshio	MA MD	Information media, image information processing, wearable devices, real-world information processing, digital archives
Associate Professor	KANG Namgyu	MD	Sensibility science, design evaluation, information design, product design
Professor	KIMURA Ken-ichi	MD	Aesthetics
Professor	SAITO Asaki	CS	Nonlinear science
Professor	SAKURAZAWA Shigeru	CS	Biophysics (movement of muscle protein, evolution and the origins of life, functional polymers, growth of protein crystals) man-machine interface
Associate Professor	SASAKI Hiroaki	CS	machine learning, statistical data analysis
Associate Professor	SATO Ikuma	MA	Computer Aided Surgery, Medical Imaging Technology, Medical ICT, Life Support Engineering, Image Processing
Professor	SATO Naoyuki	CS	Brain science, computational neuroscience, bioinstrumentation
Professor	SATO Hideki	MA	recipe design tool (optimization of food ingredients and their quantities) , prediction of nonlinear time series, optimization and analysis of high-dimensional nonlinear systems
Professor	JIANG Xiaohong	MA	Wireless networks, optic networks, protection of networks, mission critical networks, defense of networks and detection of attacks on them
Professor	SHIRAISHI Yoh	MA	database, sensor network, intelligent transport system, geographic information system
Associate Professor	SHIRASE Masaaki	MA	Information security, cryptology, fast implementation
Professor	SUZUKI Keiji	II CS	multi-agent systems, multi-robot systems, machine learning, optimization, game theory, tourism information
Professor	SUZUKI Sho'ji	II	Mobile robot, Vision system with large field of view, Network base robot service
Professor	SUMI Kaoru	MD II	Media Informatics, Affective Computing, Interactive Digital Storytelling, Persuasive Technology, and Artificial Intelligence
Professor	SUMI Yasuyuki	II MA	Human interface, Communication, Artificial Intelligence, Lifelog
Associate Professor	TAKAGI Seiji	II	Physics of living systems, Non-linear and non-equilibrium systems, Cell motility, Cellular information processing, Pattern formation

Faculty Member		Research domain	Research areas
Professor	TAKAHASHI Nobuyuki	CS	Statistical signal processing, probability process theory, remote sensing, magnetic field theory, scanning near-field optics, intelligent home appliances
Associate Professor	TAKEGAWA Yoshinari	MA MD	Human Computer Interaction, Augmented Human, Educational Technology, Music Information Science, Entertainment Computing
Associate Professor	TAKENOUCHI Takashi	CS	Statistical machine learning, pattern recognition
Associate Professor	TSUKADA Koji	MA MD	Human Computer Interaction, Ubiquitous Computing, Interactive Device, Augmented commodities, Prototyping, Invention
Associate Professor	TERAI Asuka	II	Cognitive Science, Computational Cognitive Modeling, Cognitive Neuroscience
Associate Professor	TERASAWA Kengo	MA	Image processing, information search, algorithm
Professor	NAKAKOJI Kumiyo	MA MD	Human-Computer Interaction Design, Collective Creativity, Learning Experience Design, Museum for Inspiration, Data Experience and Engagement, Software Development Support, Creative Knowledge Work
Professor	NAGASAKI Takeshi	MA ICT	Computer vision, wearable systems
Professor	NAKATA Takayuki	MD II	Music perception and cognition, Neuroscience of interaction, Neuroscience of music
Associate Professor	NAKAMURA Yoshitaka	MA	Information security, Ubiquitous network, Wireless communication, Location-based service
Associate Professor	NAMBU Misako	MD II	cognitive psychology, cognitive science, human interface, interaction of human and artifacts
Associate Professor	NIIMI Ayahiko	MA	Data Mining, Database, Artificial Intelligence
Professor	HANADA Mitsuhiko	MD	Visual psychology, visual information processing
Professor	HARADA Yasushi	MD	Information design, communication design
Professor	HIRATA Keiji	II CS	Music Informatics, Artificial Intelligence, Communication Science, Intelligent Transportation System
Professor	FUJINO Yuichi	MA	Information media, visual communications, image processing, medical information, remote medical care
Professor	FRANK Ian	II	Artificial intelligence, game theory, explanation generation, entertainment systems, interaction
Associate Professor	MATSUBARA Katsuya	MA ICT	Operating System, System Software, Virtualization
Professor	MIKAMI Sadayoshi	II MA	Robotics, Intelligent Control, Life-Support Engineering
Professor	MIMA Noyuri	MD	Learning environment design, educational engineering, human interface, scientific communication
Professor	MIMA Yoshiaki	MD MA	Interactive systems, Real World Oriented System, Internet Application, Information Expression, Idea Generation Support
Professor	MIYAMOTO T. Edson	II	language comprehension, cognitive science
Professor	MUKAIYAMA Kazushi	MD	Computer Art, Human computer interaction
Associate Professor	MURAI Hajime	II	text mining, digital humanities, bibliometrics, affective engineering, media informatics, artificial intelligence
Associate Professor	YASUI Shigeya	MD	Human interface design
Professor	YURA Fumitaka	CS	Discrete Integrable System, Cellular Automata, Quantum Information Theory
Professor	RIABOV Volodymyr	CS	Deterministic chaos in nonlinear oscillatory systems, Signal processing with applications in astrophysics and geophysics.
Professor	WADA Masaaki	MA	IoT, Fisheries Informatics, marine IT

2. Research domains

(1) Media Architecture
This domain seeks to realize information systems that focus on the characteristics of human beings as computer users and senders and receivers of information. In addition, in this domain we are pursuing processes to develop and build information systems with safe, effective operation. To meet these goals, in this domain we are conducting education aimed at acquisition of:
  1) information media technology that can handle images and sound appropriate to a network society
  2) sensing technology and information network technology to build mobile ubiquitous information systems
  3) software development technology that can be used to quickly construct information systems in line with users' needs.

(2) Advanced ICT (Information and Communication Technology)
This is the 6-year program unified undergraduate and graduate schools. This program intends to develop practical ability in anticipation of business management in the society, and nurtures human resources that Japanese industries are seeking, advanced software engineers who have innovative design of software to create the foundation of future social infrastructure and detailed implementation abilities, and personnel who can take an active part as project leaders in the future.

(3) Media Design
In this domain, we are carrying out research into how humans use information technology to interact with things and the environment. Based on learning specialized fields such as information design, interactive systems, and cognitive psychology, we are researching new theories of design and interactive systems that emphasize human beings. We are aiming to develop persons who can respond to social needs by attaining the ability to design human interfaces that are easy to use and understand and to build interactive systems that are helpful and user-friendly.

(4) Complex Systems Information
In this domain, we seek to understand various rich phenomena that originate in mutual interactions generated not only in the natural world, but in large-scale artificial systems. We aim at a universal understanding of these phenomena based on mathematical science and information science. With this foundation, we have taken on the challenge of developing innovative information processing technologies and are seeking to achieve a paradigm shift in our understanding of the human natural sciences. This domain strides a wide range of research fields and disciplines, such as information science, natural science, sociology, life science, etc. In this multidisciplinary domain, the objects of research are not individual elements, but the large-scale, rich mutual interactions that take place between constituent elements. For this reason, in this domain, we must not only have a deep understanding and knowledge of each discipline and field, but they must always consider these from a universal perspective as information systems.

(5) Intelligent Information Systems
This research domain is based on mathematical science and computer science, and it gathers knowledge from a large number of interdisciplinary academic fields. In this field, we seek to explain human intelligence and build models of it, so as to achieve higher-order human intelligence through the use of computers and robots. Specifically, we aim to construct a basic theory of higher-order intelligence seen in human activities such as perception, inference, comprehension, learning, decision-making, behavior, and cooperation. Based on this theory, we seek to design, construct, and apply artificial intelligent systems, software agents, and robots.