

**Tohoku University**  
**Graduate School of Information Sciences**  
**Two-Year Master's Program Admission Guidelines**  
**(October 2021 Admissions)**

Examination dates: 24-26 August 2021

**Admission Policy**

The Tohoku University Graduate School of Information Sciences (GSIS) aims to develop researchers and professionals who possess advanced expertise in information science based on an interdisciplinary outlook on science that encompasses mathematics and social science. We expect researchers and professionals to be always sensitive to the demands of society, discover problems on their own, and promote concrete solutions to problems, by utilizing their expertise, which is based on the integration of the humanities and sciences. To develop persons who contribute to the creation of new value in "Information Science" that the GSIS aims to achieve, we seek diverse students, including students who want to deepen their studies based on our accumulated achievements in various fields, students who want to actively pursue research in interdisciplinary fields, students who want to pursue research in new fields different from their previous research field, international students whom we expect to have different backgrounds from Japanese students, and mature students who are employed persons working at companies, institutes or other places.

Specifically, we seek students who are eager to become professionals capable of contributing to society by utilizing their expertise based on interdisciplinary and fundamental ability in mathematics and science, and students who are eager to become researchers who can contribute to further development of interdisciplinary science.

To this end, we have various types of admission options in the following categories: general admission, early graduate admission, mature student admission, international student admission, and special selection for recommended admission. The selection process is divided into seven "groups" according to the academic specialties within the GSIS, and in each group, the selection method is appropriately chosen and determined from written examinations, essays, and oral examinations depending on the characteristics of each group in the two-year Master's Course and three-year Doctoral Course.

**(Two-Year Master's Course)**

In the general admission, early graduate admission, and international student admission, the applicant will take a written examination that evaluates their specialized knowledge and ability to apply their knowledge to problems, and an oral examination based on the applicant's research plans and research motivation, with special emphasis on basic academic skills.

In the mature student admission, a comprehensive evaluation of the applicant's work history, research content, and basic academic skills will be conducted.

In the special selection for recommended admission, we evaluate the applicant's ability to think logically, writing ability, research plans, and motivation for research.

Before entering the university, students are expected to have acquired basic knowledge in their major field of study and adjacent fields, as well as the skills necessary to systematically prepare presentations of their research results.

**Assistance Program for Doctoral Students**

As of FY2006, the GSIS provides an assistance program for doctoral students with the aim of providing economic support and a suitable learning environment for high achieving graduate students.

<For details, please contact the GSIS Educational Affairs Section [Kyoumu Kakari].>

## 1. Recruiting departments and admission category

Department	Number of students to be admitted			
	General admission	Early graduate admission	Mature student admission (Note 1)	International student admission, etc. (Note 2)
Computer and Mathematical Sciences	Limited	Limited	Limited	Limited
System Information Sciences				
Human-Social Information Sciences				
Applied Information Sciences				

Note 1: The status of mature students is granted to those who have worked full time for more than 2 years (see Note 3 below) as well as to those who meet one of the qualifications described in section “2. Application requirements.”

Note 2: Those who are eligible for taking the entrance exam as international students are current international students or Japanese students who have received education in higher educational institutions abroad, and who at the same time meet one of the requirements described in “2. Application requirements” (hereinafter referred to as “international students”).

Note 3: In principle, “Mature students” are those who have experience as technically skilled workers, teachers, researchers, etc. in such as public office, educational institutions, and/or private companies. For individual cases without such previous work experience, contact the GSIS Educational Affairs Section to see the possibility of being classified as such.

**Note 4: All international students and mature students must engage in prior consultation with their prospective supervisors to discuss their post-admission research plans, no matter what category they may select.**

## 2. Application requirements

1) In order to apply as applicants, prospective students must satisfy at least the following prerequisite:

(1) University graduates (including those who are expected to graduate by the end of September 2021).

2) In order to apply as an early graduate student, prospective students must satisfy the following prerequisite:

(1) Those using the early graduation program (permitting them to graduate after at least three but less than four years of university attendance) who are expected to graduate by the end of September 2021.

3) In order to apply as mature or international students, applicants must satisfy one of the following prerequisites:

(1) University graduates (including those who are expected to graduate by the end of September 2021).

(2) Those who have been awarded a bachelor’s degree under the provisions of National Institution for Academic Degrees and Quality Enhancement of Higher Education(NIAD-QE) in Japan (including those who are expected to be awarded this degree by the end of September 2021).

(3) Those who have completed 16 years of education in a foreign country (including those who are expected to have completed this by the end of September 2021).

(4) Those who have completed a curriculum equivalent to 16 years of foreign school education in Japan (including those who are expected to complete it by the end of September 2021).

(5) Those who have completed a university course in an educational institution in Japan, which is (i) recognized under the education system of a foreign country as operating a university program (graduates must be recognized as equivalent to those completing 16 years of education in that country) and (ii) otherwise designated by the Minister of Education, Culture, Sports, Science, and Technology (MEXT) (including those who are expected to complete such program by the end of September 2021).

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

- positioned within that country's educational system as per the previous item) (including those who are expected to be awarded this degree by the end of September 2021).
- (7) Those who have completed a specialist program at a vocational school (restricted to those programs meeting standards prescribed by the MEXT, including the condition of a study period of at least four years) that has been otherwise designated by the said Minister, where the prospective student has completed the course since the date stipulated by the Minister (including those who are expected to complete such a course by the end of September 2021).
  - (8) Those designated by the MEXT (please refer to Public Notice of the Ministry of Education No.5 of 1953).
  - (9) Those who have been admitted to the graduate school of another university according to Article 102 (2) of the School Education Law, and in the opinion of the GSIS, have attained a sufficient standard of achievement.
  - (10) Those who will be at least 22 years old by the end of September 2021 and who are expected, based on an individual the GSIS screening, to have a level of scholastic attainment equivalent to or above that of a university graduate.

Note 5: The application qualifications stipulated under Article 102 (2) of the School Education Law and Article 11(8) of Tohoku University Graduate School Regulations are not applicable to “those who have studied at university for at least three years, those who have completed 15 years of school education in a foreign country, those who have completed 15 years of education in a foreign country by finishing in Japan a correspondence course operated by a school in that country, and those who have completed a university course in Japan at an educational facility, which is (i) recognized under the education system of a foreign country as operating a university program (graduates must be recognized as equivalent to completing 15 years of education in that country) and (ii) otherwise designated by the MEXT, and who have been recognized by the GSIS as having attained the necessary credits with outstanding results.”

Note 6: Applicants who wish to apply according to application requirement (6) should contact the GSIS Educational Affairs Section in advance.

Note 7: Prospective students who wish to apply as mature or international students under prerequisites (9) or (10) will be subject to a prior documentation screening. Therefore, they should consult first with the GSIS Educational Affairs Section and their prospective supervisor, and submit the documentation stipulated by the GSIS by 17 June 2021.

### 3. Reception of applications

Applications must be submitted to the GSIS Educational Affairs Section from 7 July 2021 to 15 July 2021. The reception is open from 9:00 a.m. to 4.30 p.m. (Except from 12:00 a.m. to 1:00 p.m.). Mailed applications must reach us no later than 15 July 2021.

Reception of applications/ mailing address:

Educational Affairs Section,  
 Graduate School of Information Sciences Tohoku University  
 Aramaki-Aza Aoba 6-3-09, Aoba-ku Sendai 980-8579, JAPAN  
 Tel: 022-795-5814

### 4. Application procedure

The documents necessary for application are as follows.

No.	Documentation	Details
1	Application form and CV	Use the form designated by the GSIS.
2	Supervisor request	Use the form designated by the GSIS.
3	Examination admission card and photo ID card	Use the form designated by the GSIS. (Attach to the photo ID card one photograph of yourself, head and shoulders, no hat, taken no more than three months prior to the application.)
4	Academic transcript	Issued by the chancellor of your former university, your faculty dean, or the head of the school you last attended, or equivalent.
5	TOEFL® Test or TOEIC® Test Scoresheet (Note 8)	Required for applicants for international student admission of Mathematics (Group 1), and for applicants for general admission and international student admission of Information and Biosystems (Group 2), Machine and Intelligence (Group 3), Civil Engineering (Group 4), Languages and Media (Group 5), Psychology and

		Philosophy (Group 6) and Social Sciences (Group 7). TOEFL®Test or TOEIC®Test examinations must have been taken no more than two years before the first day of the entrance examination.
6	Examination fee Please pay 30,000 yen by 14 July according to the instructions on the right, and submit the attached "Confirmation of Payment of Application Fee".	<p>①Please pay the examination fee using ATM (financial institutions, convenience stores) or Internet banking, etc. as follows. * The name of the payee must be the applicant's own name in katakana. * Please attach a copy of the bank account information, amount, date of transfer, and name of the payee (e.g., copy of ATM statement, copy of the screen for completing the transfer from internet banking) to the confirmation of payment of the examination fee. * The bank transfer fee is the responsibility of the applicant.</p> <p>Amount : 30,000yen Payment period: 14 July [period strictly limited] Bank: Mitsubishi UFJ Bank, Bank Code: 0005 Branch office: Wakatake Branch, Branch Code: 809 Account Type: General Account number: 2259391 Name: 国立大学法人東北大学 Kana: タイ トウホクダ イガク</p> <p>②MEXT scholarship recipients and also those who applied for exemption from the application fee are not required to pay the application fee. Please refer to the GSIS website (<a href="https://www.is.tohoku.ac.jp/">https://www.is.tohoku.ac.jp/</a>) for information on exemption of the application fee for disaster victims.</p> <p>③Please contact the GSIS Educational Affairs Section in advance if you live overseas and find it very difficult to make a transfer to the above financial institutions.</p>
7	Certificate of residence (with status of residence clearly indicated)	To be submitted only by foreign nationals residing in Japan (those whose period of stay exceeds 90 days). Must be issued by the mayor of the municipality within the last 3 months.
8	Return envelope for examination admission card	Use the envelope designated by the GSIS. (Clearly write name, address and postcode and attach a 384 yen stamp.)
9	Envelope for official correspondence	Use the envelope designated by the GSIS. (Clearly write name, address and postcode and attach a 780 yen stamp.)
10	Envelope for application	Use the envelope designated by the GSIS. (This envelope must be submitted even if you apply at the counter)
11	Other	<p>1) Submit papers, reports, or other supporting documents that demonstrate scholastic ability, if any.</p> <p>2) Mature students (see Note 3 below) and international students (see Note 2 below) who prefer to admit as the general admission instead should submit a confirmation letter from the prospective supervisor about the research plan.</p>

Note 8: We accept a score of any of the following publicly offered standardized tests: TOEFL-iBT®Test, TOEFL-PBT®Test or TOEIC®Test. We do not, however, acknowledge scores of institutionally offered TOEFL-ITP®Test or TOEIC-IP®Tests. Scores of multiple tests may be submitted provided they are of different types.

If a scoresheet is not submitted at the time of your application (by the final day of the period for application acceptance), your English language score will be rated at zero. We only accept TOEFL iBT® scores from a single test date, not MyBest™ scores.

The following applicants must submit a scoresheet. (For further details, please see pp.8-11.)

- Mathematics (group 1): Applicants for international student admission.
- Information and Biosystems (group 2), Machine and Intelligence (group 3), Civil Engineering (group 4), Languages and Media (Group 5), Psychology and Philosophy (Group 6), Social Science (group 7): Applicants for general admission, early graduate admission, and international student admission.

Regarding groups 1, 2, 3, 5, 6 and 7, those whose native language is English need to inquire on an individual basis.

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

In addition to the above documentation, please submit the following as appropriate.

[General admission and Early graduate admission]

No.	Documentation	Details
1	Certificate of (expected) graduation	Issued by your university chancellor or faculty dean.

Mature student admission

No.	Documentation	Details
1	One of the followings: Certificate of graduation, Certificate of (expected) degree conferral, Certificate of (expected) completion	- Certificate of graduation issued by your university chancellor or faculty dean - Certificate of (expected) bachelor's degree issued by the NIAD-QE - Certificate of (expected) completion issued by the head of the school you last attended
2	Written consent to take examination	If you are currently employed, written consent to take the entrance examination (no set format, but a company seal, or equivalent are required) issued by the head of your division is required.
3	Employment certificate	An employment certificate about the employment period, content of work, and position (no set format, but a company seal, or equivalent are required) issued by the head of your division.
4	Letter of acceptance	Written by your prospective supervisor and signed or stamped by him/her (no set format)
5	Statement of purpose	Areas of interest, research plan, future goals, etc. (use A4 for printing)
6	Graduation thesis and supporting documents	Graduation thesis or your research content from previous institution or employment place (use A4 for printing)

International student admission

No.	Documentation	Details
1	Certificate of graduation, or certificate of (expected) completion	Certificate of graduation issued by your university chancellor or faculty dean, certificate of (expected) completion issued by the head of the school you last attended
2	Letter of acceptance	Written by your prospective supervisor and signed or stamped by him/her (no set format)
3	Letter of recommendation	Written by your previous university supervisor or a person of the same position as the supervisor (no set format). Unnecessary for those who graduated (or expected to graduate by the end of September 2021) from a university in Japan.
4	Government scholarship certificate	For international students on Japanese government (MEXT) scholarships at other universities, submit a MEXT scholarship certificate issued by their university.
5	Written consent to take Exam	If you are currently employed, written consent to take the entrance examination (no set format, but a company seal, or equivalent are needed) issued by the head of your division is required.

## 5. Admission method

In principle, admission will be based upon a combination of written examinations (in the case of mature students, short essay, or equivalent), an oral examination, their academic transcript and other submitted documents.

However, in the case of Group 3 (Mechanical and Intellectual Engineering), the oral examination may not be conducted depending on the results of the written examination.

### 1) General admission, early graduate admission, and international student admission

Applicants should refer to “the list of laboratories (areas)” on pp.14-17 or the GSIS website (<https://www.is.tohoku.ac.jp/en/laboratory/>) to select their first choice in terms of laboratory (area) and take the written and oral examinations for the specialized subject group specified by that laboratory (in that area).

Subject group codes, laboratory codes and departments are shown in Table 1.

The content of examinations for each specialized subject group is shown on pp.8-11.

Table 1

Specialized subject group		Laboratory codes	Department
Group code	Name		
1	Mathematics	A01-1, A01-2, A02-1, A02-2, A03, A04	Computer and Mathematical Sciences
		B01-1, B01-2, B02-1, B02-2, B03	System Information Sciences
2	Information and Biosystems	A05, A07, A08, A09, A10, A11, A13, A14, A16, A17, A18	Computer and Mathematical Sciences
		B04, B05, B06, B07, B08, B11, B12, B13, B15, B16	System Information Sciences
		D01, D02, D04, D05, D07, D08-1, D08-2, D10, D11, D12	Applied Information Sciences
3	Machine and Intelligence	A06-1, A06-2, A12-1, A12-2, A15-1, A15-2, A19-1, A19-2	Computer and Mathematical Sciences
		B09, B10-1, B10-2, B14	System Information Sciences
		D03-1, D03-2, D03-3, D09-1, D09-2	Applied Information Sciences
4	Civil Engineering	C11-1, C11-2, C12-1, C12-2, C13-1, C13-2	Human-Social Information Sciences
5	Languages and Media	C01, C06, C14, C15	Human-Social Information Sciences
6	Psychology and Philosophy	C02, C03, C04, C05, C16	Human-Social Information Sciences
		D06	Applied Information Sciences
7	Social Sciences	C07, C08, C09, C10	Human-Social Information Sciences

\* Aside from the above, the following examination methods can also be chosen.

Method 1: In case of taking the written examination in another specialized examination subject group.

Method 2: In case of taking the written examination on a subject that is not part of the specialized examination subjects of the GSIS (Some subjects may not be available upon the request).

Method 3: In case of taking an examination such as an essay related to your background, an oral examination, or a foreign language subject (English) in place of the above written and oral examinations (Please note that some applicants may not be allowed to take the examination by this method depending on the prior document review).

**Those wishing to be examined using the above methods must consult with the GSIS Educational Affairs Section and their prospective supervisor by 17 June, 2021.**

### (1) Schedule for entrance examinations

Examinations will be held by specialized subject group from 24 August 2021 to 26 August 2021 according to the schedule on pp.8-11.

## (2) Place and time of the examination

The details including the examination venue will be notified along with the examination admission card to be sent. As for the details, refer to “Examination schedule and examination content for each specialized subject group.” (p.8)

## 2) Mature student admission

In principle, those applying for admission as a mature student should have been employed for two or more years as technicians, teachers or researchers in public office, schools or companies, etc. The aim is for mature students to exploit their workplace experience in their learning and research, refresh and advance their knowledge and skills, or to acquire knowledge and skills in new areas, advancing their creative abilities.

In principle, screening will entail a holistic assessment of the applicant’s basic academic ability and work experience and research content as a working member of society based on a short essay, oral examination and documentation screening. Emphasis will also be placed on the relationship between the research area in which the candidate wishes to major and their work and research experience to date.

The examination schedule and content for each specialized examination subject group are shown on pages 12-13. The examination venue is the same as previously mentioned in”1) General admission and the international student admission.

## 6. Announcement of successful applicants

The examination code numbers of passed applicants will be listed on the GSIS website around 5 p.m. on 3 September 2021 (<https://www.is.tohoku.ac.jp/>). Applicants will also be notified of results placed in the envelope exclusively used for official communication by mail.

## 7. Application for Long-Term Study System

The GSIS can, based on the results of a review, give permission for a student to complete their study program (Note 10) systematically over a period of more than two years, which is the standard completion period, in response to circumstances such as the student’s having a job (Note 9). Students to whom this system is applied are called “long-term students.”

The GSIS will engage in consultation in relation to this system at any point in time. Details of application methods will be contained in the documentation on admission procedures sent out after the announcement of successful applicants.

Note 9: Students eligible for the long-term student system are: (i) full-time employees at companies, etc., or those who are self-employed; (ii) those needing time away for childbirth, childcare or nursing care, etc.; and (iii) other persons deemed eligible by the GSIS.

Note 10: The term of study cannot extend past four years. However, students can request that the permitted term of study be shortened. In principle, there will be no special curriculum set for long-term students.

## 8. Admission procedures

Information on admission procedures and other details will be sent out together with the notification of acceptance.

## 9. Costs

- |                                |   |
|--------------------------------|---|
| (1) Entrance fee               | 282,000 yen (subject to change)               |
| (2) Tuition fee (Per Semester) | 267,900 yen (subject to change)               |
|                                | (Annual fee: 535,800 yen) (subject to change) |

Note 11: Tuition fees while enrolled at Tohoku University should be paid to the university through an automatic debit from a bank account held at a designated bank. The above fees are provisional, and where tuition fees are revised during your period of study, the new tuition fee will apply as of the time of revision.

Note 12: Information on exemptions from entrance and/or tuition fees or permission for delayed fee payment will be provided in the documentation on admission procedures sent out after the announcement of examination results.

## 10. Notes

- (1) Application documents and the examination fee will not be returned.
- (2) Anyone who files a false declaration in the application documents, the enrollment may be canceled even after admission.
- (3) When submitting an application by mail, use the envelope designated by the GSIS and send it by express registered mail.

- (4) If you have not received an examination admission card 10 days before the entrance examination, please contact the GSIS Educational Affairs Section.
- (5) Consultation is available for those applicants with special examination or study needs. Please contact the GSIS Educational Affairs Section in this regard by 17 June 2021.
- (6) When requesting application documents by mail, please enclose a self-addressed envelope (No. 2 size, or approximately 34 cm x 24cm) on which your name, address, postal code, and the type of application materials required (admission categories) are clearly written and a 250 yen stamp (\*) attached. If you require a brochure explaining details of the school's program, clearly write your request in red ink on a request envelope and enclose a self-addressed envelope (same size as above) with a 390 yen stamp (\*) attached.
- \* If you need more than one copy, or if you want it sent by express mail, please contact the GSIS Educational Affairs Section.
- (7) We will disclose the entrance examination results only to those who took the entrance exam of Graduate School of Information Sciences on 2021. If you wish, please inquire to the academic staff about procedures, etc. Applications will be accepted only if there is a request for disclosure (prescribed application form) from the applicant himself / herself.
- (8) Handling of personal information
- (i) Personal information gathered in the course of admission screening will be used solely for the purposes of conducting admission screening, admission procedures, providing support after admission (scholarships, tuition fee exemptions, health management, etc.), education (educational guidance, etc.), and administrative activities such as collecting tuition fees.
- (ii) Personal information gathered in the course of admission screening will be handled strictly in compliance with "the Law for the Protection of Personal Information Retained by Independent Administrative Institutions," and "the Act on the Protection of Personal Information of Tohoku University," and will not be disclosed or released to third parties without the consent of the person concerned.
- (iii) It is deemed that those applying to Tohoku University Graduate School of Information Sciences have consented to the above provisions.
- (9) In accordance with the Foreign Exchange and Foreign Trade Act, Tohoku University has established the Rules for Security Export Control at National University Corporation Tohoku University and conducts screening when accepting international students.

June 2021

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## Examination schedule and examination content for each specialized subject group

October 2021

### Two-Year Master's Program: International student admission

	<b>Group 1          Mathematics</b>
Written examinations *	<p>Specialized subjects          25 August 10:00-13:00</p> <p>Select four out of 11 questions on differential and integral calculus (2), linear algebra (2), applied mathematics (1), discrete mathematics (1), probability/statistics (1), complex analysis (1), differential equation (1), geometry (1), and algebra (1).</p>
	<p>English</p> <p>Applicants must provide at the time of application their original TOEFL®Test or TOEIC®Test scoresheet from an examination taken no more than two years before the first day of the entrance examinations. The scoresheet is the Test Taker Score Report in the case of TOEFL®Test, and the Official Score Certificate in the case of TOEIC®Test. When submitting the TOEFL®Test Institutional Score Report, please ensure that your score report is sent directly from U.S. ETS and reach to the GSIS office by the final day of the application period. (For mailing, the GSIS's DI code is 2149.) Applicants whose native language is English should contact the GSIS Educational Affairs Section on an individual basis.</p>
Oral examination	<p>25 or 26 August: Applicants will be notified of the exact date and start time.</p> <p>Applicants must speak for approximately 10 minutes on their (expected) graduation research at their former university or the main areas of mathematics that they have studied. (PC projectors can be used.) On the day of the examination, bring five copies of an outline of your presentation and your research goals following admission (A4 size).</p>
	<b>Group 2          Information and Biosystems</b>
Written examinations *	<p>Basic subjects          24 August 9:40-10:40 (Meeting time 9:00)</p> <p>Physics and informatics: Select two out of six questions on electromagnetics, electrical circuits, fundamentals of informatics 1, fundamentals of informatics 2, fundamentals of physics, and fundamentals of mathematics.</p> <p>Medicine and biology: Select two out of five questions on fundamentals of molecular biology, fundamentals of general physiology, fundamentals of neuroendocrinology, fundamentals of pathophysiology, and fundamentals of health science.</p>
	<p>English</p> <p>Applicants must provide at the time of application their original TOEFL®Test or TOEIC®Test scoresheet from an examination taken no more than two years before the first day of the entrance examinations. The scoresheet is the Test Taker Score Report in the case of TOEFL®Test, and the Official Score Certificate in the case of TOEIC®Test. TOEFL iBT Home Edition score sheets are also accepted. When submitting the TOEFL®Test Institutional Score Report, please ensure that your score report is sent directly from U.S. ETS and reach to the GSIS office by the final day of the application period. (For mailing, the GSIS's DI code is 2149.) Applicants whose native language is English should contact the GSIS Educational Affairs Section on an individual basis.</p>
	<p>Specialized subjects          25 August 9:40-10:40 (Meeting time 9:00)</p> <p>Physics and informatics: Select two out of six questions on electrical engineering, communication engineering, electronic engineering, computers 1, computers 2, and specialized physics.</p> <p>Medicine and biology: Select two out of five questions on specialized molecular biology, specialized general physiology, specialized neuroendocrinology, specialized pathophysiology, and specialized health science.</p>
	<p>Note: Please enter the subjects in which you wish to be examined (physics and informatics or medicine and biology) along with the subject group (Information and Biosystems) in the application form. Please refer to the relevant departments in regard to the scope of the various subjects, or check on the website at this address: <a href="http://www.ecei.tohoku.ac.jp/ecei_web/admission/">http://www.ecei.tohoku.ac.jp/ecei_web/admission/</a></p>
Oral examination	<p>25 or 26 August: Applicants will be notified of the exact date and start time separately.</p> <p>Applicants must speak for approximately 10 minutes on the education they received at their former university, their (expected) graduation thesis and their research goals following admission, etc. On the day of the examination, bring five copies of the materials related to the contents of your presentation (A4 size). (International students who undertook their undergraduate studies at Tohoku University may in some cases be exempted from giving this presentation.)</p>

**Two-Year Master’s Program: International student admission**

	<p>Group 3                      Machine and Intelligence</p>
<p>Written examinations *</p>	<p>English Applicants must provide at the time of application their original TOEFL®Test or TOEIC®Test scoresheet from an examination taken no more than two years before the first day of the entrance examinations. The scoresheet is the Test Taker Score Report in the case of TOEFL®Test, and the Official Score Certificate in the case of TOEIC®Test. TOEFL iBT Home Edition score sheets are also accepted. When submitting the TOEFL®Test Institutional Score Report, please ensure that your score report is sent directly from U.S. ETS and reach to the GSIS office by the final day of the application period. (For mailing, the GSIS’s DI code is 2149.) Applicants whose native language is English should contact the GSIS Educational Affairs Section on an individual basis. With the exception of applicants whose native language is English, if an applicant cannot provide an original score report from the TOEIC public test, the application request will not be accepted. (However, if the applicant is submitting a scoresheet of the TOEIC public test, it can be accepted after the application period. In such a case, unless the original scoresheet is submitted by the deadline, the applicant will be classified as having “failed.”)</p>
	<p>Mathematics A    24 August 9:30-10:30 (Meeting time 8:50) Differential and integral calculus, linear algebra, vector analysis</p>
	<p>Mathematics B    24 August 13:00-14:00 Ordinary differential equations, Partial differential equations, Fourier series and transform, Laplace transform</p>
	<p>Specialized subjects            24 August 15:45-16:45 Select two from the following five subjects: thermodynamics, fluid mechanics, material dynamics, mechanical dynamics and control engineering</p>
	<p>Note: 25 August will be used in case of extraordinary circumstances, so leave your schedule open.</p>
<p>Oral examination</p>	<p>26 August            Applicants will be notified of the meeting time separately. According to the result of the written examination, you may be exempted from the oral examination. Applicants must speak for approximately 10 minutes on the education they received at their former university or their graduation thesis (including theses under production). (PC projectors can be used.) On the day of the examination, bring 13 copies of materials related to your presentation (presentation outline, diagrams, etc.; A4 size). International students who undertook their undergraduate studies at Tohoku University do not need to give a presentation, but they will be asked about their (expected) graduation research and their research goals after admission, etc.</p>

**Two-Year Master's Program: International student admission**

	Group 4 Civil Engineering
Written examinations *	<p>English</p> <p>Applicants must provide at the time of application their original TOEFL®Test or TOEIC®Test scoresheet from an examination taken no more than two years before the first day of the entrance examinations. The scoresheet is the Test Taker Score Report in the case of TOEFL®Test, and the Official Score Certificate in the case of TOEIC®Test. When submitting the TOEFL®Test Institutional Score Report, please ensure that your score report is sent directly from U.S. ETS and reach to the GSIS office by the final day of the application period. (For mailing, the GSIS's DI code is 2149.)</p>
	<p>Specialized subjects 24 August 13:00-15:00</p> <p>Applicants must choose four questions out of 17 questions on 8 subjects.</p> <ol style="list-style-type: none"> <li>1. Mathematics (differential and integral calculus (1 question), linear algebra (1 question), probability and statistics (1 question))</li> <li>2. Mechanics of Elastic Media and Structures (2 questions)</li> <li>3. Geotechnical and Concrete Engineering (2 questions)</li> <li>4. Hydraulics (2 questions)</li> <li>5. Water Quality and Environment (2 questions)</li> <li>6. Biological and Ecological Engineering (2 questions)</li> <li>7. Transportation Engineering and Planning (2 questions)</li> <li>8. Operations Research (2 questions)</li> </ol>
	<p>Notes</p> <p>(1) No dictionary or calculator allowed.</p> <p>(2) For past entrance examination questions and question scope, please refer to the following website: <a href="http://www.civil.tohoku.ac.jp/inshi.html">http://www.civil.tohoku.ac.jp/inshi.html</a></p>
Oral Examination	<p>24 or 25 August: Applicants will be notified of the exact date and start time separately. Questions cover the education received in the previous institution, the content of the thesis (including the one in progress), the drive and motivation, and research goals following admission, etc. The Japanese language proficiency of the applicants is also judged.</p>

	Group 5 Languages and Media
Written examinations *	<p>English</p> <p>Applicants must provide at the time of application their original TOEFL®Test or TOEIC®Test scoresheet from an examination taken no more than two years before the first day of the entrance examinations. The scoresheet is the Test Taker Score Report in the case of TOEFL®Test, and the Official Score Certificate in the case of TOEIC®Test. When submitting the TOEFL®Test Institutional Score Report, please ensure that your score report is sent directly from U.S. ETS and reach to the GSIS office by the final day of the application period. (For mailing, the GSIS's DI code is 2149.) Applicants whose native language is English should contact the GSIS Educational Affairs Section on an individual basis.</p>
	<p>Specialized subjects 25 August 10:00-13:00</p> <p>Choose one of the following fields of study: Linguistics or Media Studies</p> <p>[Linguistics]</p> <p>Answer two questions from the following areas: morphosyntax, semantics, historical linguistics, sociolinguistics, or psycholinguistics.</p> <p>[Media studies]</p> <p>Answer two questions from the following areas: literary theory, media studies, cultural studies, educational technology, or information literacy.</p>
Oral examination	<p>25 or 26 August: Applicants will be notified of the exact date and start time separately. Applicants must speak for approximately 15 minutes on the education they received at their former university and their graduation thesis (including theses under production). (PC projectors can be used.) On the day of the examination, bring five copies of materials related to your presentation (presentation outline, diagrams, etc.; A4 size).</p>

**Two-Year Master's Program: International student admission**

	Group 6 Psychology and Philosophy
Written examinations *	<p>English</p> <p>Applicants must provide at the time of application their original TOEFL®Test or TOEIC®Test scoresheet from an examination taken no more than two years before the first day of the entrance examinations. The scoresheet is the Test Taker Score Report in the case of TOEFL®Test, and the Official Score Certificate in the case of TOEIC®Test. When submitting the TOEFL®Test Institutional Score Report, please ensure that your score report is sent directly from U.S. ETS and reach to the GSIS office by the final day of the application period. (For mailing, the GSIS's DI code is 2149.) Applicants whose native language is English should contact the GSIS Educational Affairs Section on an individual basis.</p>
	<p>Specialized subjects      25 August 10:00-13:00</p> <p>Select three of 12 questions from these areas: psychology (sensation and perception, cognition, learning and memory, personality, psychometrics) and philosophy (history of philosophy).</p> <p>Applicants for either psychology (cognitive psychology, human learning and memory, cognitive psychology of communication) or philosophy (philosophy of human information, philosophy of logical analysis) should ensure that they answer questions from the area designated in the book for questions respectively.</p>
Oral examination	<p>26 August 10:00-</p> <p>Applicants must speak for approximately 20 minutes on the education they received at their former university and their graduation thesis (including theses under production). (PC projectors can be used.) On the day of the examination, bring five copies of materials related to your presentation (presentation outline, diagrams, etc.; A4 size).</p>

	Group 7 Social Sciences
Written examinations *	<p>English</p> <p>Applicants must provide at the time of application their original TOEFL®Test or TOEIC®Test scoresheet from an examination taken principally no more than two years before the first day of the entrance examinations. The scoresheet is the Test Taker Score Report in the case of TOEFL®Test, and the Official Score Certificate in the case of TOEIC®Test. When submitting the TOEFL®Test Institutional Score Report, please ensure that your score report is sent directly from U.S. ETS and reach to the GSIS office by the final day of the application period. (For mailing, the GSIS's DI code is 2149.) Students whose native language is English should contact the GSIS Educational Affairs Section by the last day of the application period.</p>
	<p>Specialized subjects      25 August 10:00-13:00</p> <p>Select one of the following categories.</p> <p>Sociology : select three out of five questions from the following areas: the history of sociology, contemporary society, sociology of local community, civil society and social research methods</p> <p>Politics : select three out of five questions from the following areas: political consciousness, modern political thought, public administration, political processes, political systems and comparative politics</p> <p>Economics : select three out of five questions from the following areas: microeconomics, macroeconomics, urban economics, regional economics, statistics, econometrics and mathematics for economics</p> <p>Questions may be answered in English. Where necessary, the examiner will supply calculators. * State the name of the categories in which you wish to be examined (sociology, politics, or economics) in the application, along with the name of the specific subject (Social Sciences). No change in category will be allowed after the application has been submitted</p>
Oral examination	<p>25 or 26 August      Applicants will be notified of the exact date and start time separately.</p> <p>Applicants must speak for approximately 20 minutes on the education they received at their former university and their graduation thesis (including theses under production). (PC projectors can be used.) The examiners will ask questions for approximately 10 minutes. On the day of the examination, bring five copies of materials related to your presentation (presentation outline, diagrams, etc.; A4 size). Presentations can be given in English.</p>

\* In each of the subject groups, applicants may be exempted from the written examinations according to the content of their academic transcripts. A TOEFL®Test or TOEIC®Test scoresheet must still be provided at the time of application.

October 2021

**Two-Year Master's Program: Mature student admission**

	<b>Group 1 Mathematics</b>
Short essay	25 August 10:00-11:30 Includes questions testing your understanding of basic mathematical concepts and terminology.
Oral examination	25 or 26 August: Applicants will be notified of the exact date and start time separately. Applicants must speak for approximately 20 minutes on their main area of mathematical research either at their workplace or on a personal basis. (OHP and PC projectors can be used.) On the day of the examination, bring five copies of materials related to your presentation (presentation outline, diagrams, etc.; A4 size).

	<b>Group 2 Information and Biosystems</b>
Oral examination	25 or 26 August: Applicants will be notified of the exact date and start time separately. Applicants must speak for approximately 10 minutes on their research (work) to date and their research goals following admission, etc. On the day of the examination, bring five copies of materials related to your presentation (presentation outline, diagrams, etc.; A4 size).

	<b>Group 3 Machine and Intelligence</b>
Written examinations	Choose two from 7 subjects from Mathematics A, Mathematics B and specialized subjects. (Notify the GSIS of these in advance.) The time at which the written examination finishes for specialized subjects will vary according to the subject chosen.
	Mathematics A 24 August 9:30-10:30 (Meeting time 8:50) Differential and integral calculus, linear algebra, vector analysis
	Mathematics B 24 August 13:00-14:00 Ordinary differential equations, Partial differential equations, Fourier series and transform, Laplace transform
	Specialized subjects 24 August 15:45-16:45 Thermodynamics, fluid mechanics, material dynamics, mechanical dynamics and control engineering
	Note: 25 August will be used for ordinary circumstances, so leave your schedule open.
Oral examination	26 August Applicants will be notified of the meeting time separately. Only those who have passed the written examination or who were exempt from that examination will be eligible for the oral examination. Applicants must speak for approximately 10 minutes on their research to date and their research goals after admission. (PC projectors can be used.) On the day of the examination, bring 13 copies of materials related to your presentation (presentation outline, diagrams, etc.; A4 size). Your English ability may also be subject to evaluation.
	Note: Some applicants may be exempted from the written examinations as a result of prior screening of their documentation. For details, please contact Machine and Intelligence educational affairs section. Contact point: Machine and Intelligence educational affairs officer Tel: 022-795-7030

	<b>Group 4 Civil Engineering</b>
Short essay	24 August 9:30-11:00 A theme on civil engineering
Oral examination	24 or 25 August: Applicants will be notified of the exact date and start time separately. Applicants must speak for approximately 10 minutes on their research or work at their workplace. (PC projectors can be used. If you wish to use a PC projector, please contact the Educational Affairs Section beforehand.) The examiners will ask questions concerning your presentation, drive and motivation, and research goals following admission, etc. On the day of the examination, bring eight copies of materials related to your presentation (presentation outline, diagrams, etc.; A4 size).

October 2021

**Two-Year Master's Program: Mature student admission**

Group 5 Languages and Media	
Short essay	25 August 10:00-11:30 The applicant must answer the essay question given on the examination day
Oral examination	25 or 26 August: Applicants will be notified of the exact date and start time separately. Applicants will be notified as to the time of the examination separately. Applicants must speak for approximately 15 minutes on their research or work at their workplace, and their future research plans after admission. (PC projectors can be used.) On the day of the examination, bring five copies of materials related to your presentation (presentation outline, diagrams, etc.; A4 size).

Group 6 Psychology and Philosophy	
Short essay	25 August 10:00-11:30 Theme to be indicated on the examination day.
Oral examination	26 August 10:00- Applicants must speak for approximately 20 minutes on their research or work at their workplace and their research plans after admission. (PC projectors can be used.) On the day of the examination, bring five copies of materials related to your presentation (presentation outline, diagrams, etc.; A4 size).

Group 7 Social Sciences	
Short essay	25 August 10:00-13:00 Select one of the themes indicated at the time of the examination and write an essay. Themes will relate to proposed research areas across sociology, politics and economics.
Oral examination	25 or 26 August Applicants will be notified of the exact date and start time separately. Applicants will be notified of the time of the examination separately. Applicants must speak for approximately 20 minutes on their research or work at their workplace. (PC projectors can be used.) The examiners will ask questions for around 10 minutes. On the day of the examination, bring five copies of materials related to your presentation (presentation outline, diagrams, etc.; A4 size).

**List of laboratories (areas) within Tohoku University Graduate School of Information Sciences 2022**

\* For details on the research, etc., at these laboratories (areas), please see the GSIS's website at:

<https://www.is.tohoku.ac.jp/en/laboratory/>

Group code	Group	Division	Laboratory (Area)	Lab. code	Staff	Department
1	Mathematics	Mathematical Structures	Mathematical Structures I	A01-1	Prof. Akihiro MUNEMASA	Computer and Mathematical Sciences
				A01-2	Assoc. Prof. Hiroki SHIMAKURA	
			Mathematical Structures II	A02-1	Prof. Toshiyuki SUGAWA	
				A02-2	Assoc. Prof. Hajime TANAKA	
			Mathematical Structures III	A03	Prof. Hitoshi MURAKAMI**	
		Mathematical Structures IV	A04	Prof. Hiromi SENO		
		Mathematical System Analysis	Mathematical System Analysis I	B01-1	Prof. Masaaki HARADA	System Information Sciences
				B01-2	Assoc. Prof. Kei FUNANO	
			Mathematical System Analysis II	B02-1	Prof. Nobuaki OBATA*	
				B02-2	Assoc. Prof. Reika FUKUIZUMI	
Mathematical System Analysis III	B03		(Currently vacant)			
2	Information and Biosystems	Applied Mathematical Science	Mathematical Informatics	A05	Prof. Masayuki OHZEKI	Computer and Mathematical Sciences
		Computation Science and Systems	Computation Science and Systems Computation Theory	A07	(Currently vacant)	
				A08	Prof. Takafumi AOKI Assoc. Prof. Koichi ITO	
			Computer Structures	A09	Prof. Masanori HARIYAMA Assoc. Prof. Hasitha Muthumala WAIDYASOORIYA	
		Software Science and Systems	Firmware Science	A10	(Currently vacant)	
			Foundations of Software Science	A11	Prof. Eijiro SUMII Assoc. Prof. Kazutaka MATSUDA	
		Logic for Information Science	Logic for Information Science	A13	Prof. Keisuke NAKANO	
		Communication Theory	Communication Theory	A14	Prof. Go HASEGAWA Assoc. Prof. Gen KITAGATA	
		Information Security	Information Security	A16	Prof. Hiroki SHIZUYA* Assoc. Prof. Masao SAKAI Assoc. Prof. Shuji ISOBE	

Information and Biosystems	Environmental Informatics	Environmental Informatics	A17	(Currently vacant)	System Information Sciences	
	Fundamental Data Informatics	Fundamental Data Informatics	A18	Prof. Yoshinori HAYAKAWA Assoc. Prof. Takashi MITSUISHI		
	Intelligent Information Science	Algorithm Theory	B04	Prof. Xiao. ZHOU Assoc. Prof. Akira SUZUKI		
		Intelligent Systems Science	B05	Prof. Ayumi SHINOHARA Assoc. Prof. Ryo YOSHINAKA		
		Natural Language Processing	B06	Prof. Kentaro INUI		
	Biosystem Information Sciences	Information Biology	B07	(Currently vacant)		
		Design and Analysis of Information Systems	B08	Prof. Takehiro ITO Assoc. Prof. Jinhee CHUN		
	Acoustic Information	Acoustic Information	B11	Prof. Shuichi SAKAMOTO		
	Visual Cognition and Systems	Visual Cognition and Systems	B12	Prof. Satoshi SHIOIRI Assoc. Prof. Chia-Huei Tseng		
	Information Contents	Information Contents	B13	Prof. Yoshifumi KITAMURA Assoc. Prof. Kazuki TAKASHIMA		
	Software Construction	Software Construction	B15	Assoc. Prof. Katsuhiro UENO		
	Fundamental Artificial Intelligence	Fundamental Artificial Intelligence	B16	Prof. Jun SUZUKI		
	Information and Applied Technology	Physical Fluctuomatics	D01	Prof. Kazuyuki TANAKA		Applied Information Sciences
		Information Technology	D02	Prof. Nei KATO Assoc. Prof. Yuichi KAWAMOTO		
	Applied Informatics for Human and Life Sciences	Systems Bioinformatics	D04	Prof. Kengo KINOSHITA Assoc. Prof. Takeshi OOBAYASHI Assoc. Prof. Hafumi NISHI Assoc. Prof. Kazunori YAMADA		
		Biomodeling	D05	(Currently vacant)		
Applied Intelligence Software	Applied Intelligence Software	D07	Assoc. Prof. Toru ABE			
Information Network Systems	Information Network Systems	D08-1	Prof. Takuo SUGANUMA Assoc. Prof. Takaaki MIZUKI			
		D08-2	Assoc. Prof. Hideaki GOTO			



		Brain Function Integration	Brain Function Integration	D10	Prof. Yoshihiko HORIO		
		Health Informatics	Health Informatics	D11	Prof. Yoshitaka KINOUCHI Prof. Chihiro ITO Assoc. Prof. Susumu OGAWA Assoc. Prof. Kimio SATO		
		Statistical Science for Complex systems	Statistical Science for Complex systems	D12	Prof. Atsushi YOSHIMOTO Assoc. Prof. Fumikazu MIWAKEICHI Assoc. Prof. Shinsuke KOYAMA		
3	Machine and Intelligence	Applied Mathematical Science	Mathematical Modeling and Computation	A06-1	Prof. Satoru YAMAMOTO	Computer and Mathematical Sciences	
				A06-2	Assoc. Prof. Takashi FURUSAWA		
		Software Science and Systems	Computer Architecture	A12-1	Prof. Hiroaki KOBAYASHI		
				A12-2	Assoc. Prof. Masayuki SATO		
		High Performance Computing	High Performance Computing	A15-1	Prof. Hiroyuki TAKIZAWA		
				A15-2	(Currently vacant)		
		Advanced Computing Systems	Advanced Computing Systems	A19-1	Prof. Kentaro SANO		
				A19-2	Prof. Mitsuhsa SATO		
		Intelligent Robotics	Image Analysis	B09	Prof. Takayuki OKATANI		System Information Sciences
			Intelligent Control Systems	B10-1	Prof. Koichi HASHIMOTO		
				B10-2	Assoc. Prof. Shingo KAGAMI		
		Integrated Fluid Informatics	Integrated Fluid Informatics	B14	Prof. Jun ISHIMOTO		
Information and Applied Technology	Human-Robot Informatics	D03-1	Prof. Satoshi TADOKORO	Applied Information Sciences			
		D03-2	Assoc. Prof. Masashi KONYO				
		D03-3	Assoc. Prof. Kenjiro TADAKUMA				
Flow System Informatics	Flow System Informatics	D09-1	Prof. Yuji HATTORI				
		D09-2	Assoc. Prof. Makoto HIROTA				
4	Civil Engineering	Infrastructure Planning	Transportation and Geographic Information Science	C11-1	Prof. Takamasa IRYO	Human-Social Information Sciences	
				C11-2	Assoc. Prof. Ryo INOUE		
		Regional and Urban Planning	C12-1	Prof. Tatsuhito KONO			
			C12-2	Assoc. Prof. Junya FUKUMOTO			
		Road Transportation and Traffic	C13-1	Prof. Takashi AKAMATSU			
			C13-2	Assoc. Prof. Yusuke HARA			

5	Languages and Media	Human Information Science	Language and Information Science	C01	(Currently vacant)	Human-Social Information Sciences
			Verbal Text Analysis	C06	Prof. Yoshiki OGAWA	
		Media and Information Science	Media and Culture	C14	Assoc. Prof. Naoko MORITA Senior Assis. Prof. Kuniko SAKATA	
			Media and Information Literacy	C15	Prof. Tatsuya HORITA	
6	Psychology and Philosophy	Human Information Science	Human Learning and Memory	C02	(Currently vacant)	Human-Social Information Sciences
			Cognitive Psychology	C03	Prof. Kazumichi MATSUMIYA Assoc. Prof. Yuichi WADA	
			Philosophy of Human Information	C04	Prof. Ichiro MORI	
			Philosophy of Logical Analysis	C05	(Currently vacant)	
		Cognitive Psychology of Communication	Cognitive Psychology of Communication	C16	Prof. Toshiaki MURAMOTO	
		Applied Informatics for Human and Life Sciences	Cognitive Psychology	D06	Prof. Kazumichi MATSUMIYA	Applied Information Sciences
7	Social Sciences	Socio-Political Information Science	Theory of Social Structure and Change	C07	Prof. Naohito TOKUGAWA Assoc. Prof. Aya OKADA	Human-Social Information Sciences
			Political Informatics	C08	Assoc. Prof. Kazunori KAWAMURA Assoc. Prof. Masaaki HIGASHIJIMA	
		Socio-Economic Information Science	Socio-Economic Analysis of Urban System	C09	Prof. Dao-Zhi ZENG Assoc. Prof. Ryo ITOH	
			Econometric System Analysis	C10	Assoc. Prof. Naoya FUJIWARA	

\* Teaching staff due to retire in March, 2023.

\*\* Teaching staff due to retire in March, 2024.