

Tohoku University
Graduate School of Information Sciences
2021 Three-Year Doctoral Program Admission Guidelines
(April 2021 Advancement and Transfer Admissions)

Examination dates: 25-27 August 2020

June 2020

The Graduate School of Information Sciences (GSIS) consists of four departments: Computer and Mathematical Sciences, System Information Sciences, Human-Social Information Sciences and Applied Information Sciences.

GSIS aims not only to conduct cutting-edge education and research within these various academic disciplines, but also to advance wide-ranging interdisciplinary research. Students can therefore opt to engage in areas other than their original speciality. We welcome applications from ambitious individuals aspiring to create “Information Science” for the new era.’

Admission Policy

To foster individuals who can contribute to GSIS’s goal of creating “New Information Science,” we promote the acceptance of students who aim to further develop the fruits GSIS has reaped so far, students who aspire to actively pursue research across a range of disciplines, students hoping to broaden their research area, and overseas students and mature students from diverse backgrounds.

Assistance Program for Doctoral Students

As of FY2006, GSIS has been operating an assistance program for doctoral students with the aim of providing economic support and a suitable learning environment for graduate students with a high level of specialization.

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

1. Recruiting departments and selection category

| Department | Number of students to be admitted | Additional Information |
|------------------------------------|-----------------------------------|--|
| Computer and Mathematical Sciences | 11 | The figures shown in the left column (advancing (Note 1) / transferring students to be admitted) include the following quota; *transfer-admission selection for mature students (Note 2): 4 in each department *transfer-admission selection for overseas students, etc. (note 3): total of 7 in all the department. |
| System Information Sciences | 11 | |
| Human-Social Information Sciences | 10 | |
| Applied Information Sciences | 10 | |
| Total | 42 | |

Note 1: Applicants who have completed the two-year GSIS program (master degree program) or a professional degree program and are advancing to the three-year doctoral course.

Note 2: The status of mature students is granted to those who have worked full time for more than 2 years in principle (see Note 4 below). In case that applicants have less than 2 years of work experience, those who will work full time after enrolment and meet one of the qualifications in “2. Applicants requirements” are subject to this selection (see p.5).

Note 3: Those eligible to apply for transfer-admission selection for overseas students, etc. are current overseas students or the 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 “overseas students, etc.”).

Note 4: “Mature students” are those who have experience as technically skilled workers, teachers, researchers, etc. in public office, educational institutions and private companies, in principle. An individual can be classified as a mature student even without such previous experience. For individual cases, contact GSIS Educational Affairs Office.

Note 5: All those wishing to apply as transfer students should consult beforehand with GSIS Education Affairs Section and with their prospective supervisor to confirm their research plans after transfer admission.

2. Application requirements

- 1) Only those students who are expected to complete GSIS two-year program (master degree program) or a professional degree program in March 2021 may apply as advancing students.
- 2) In order to apply as a transfer student, applicants must satisfy one of the following prerequisites:
 - (1) Those persons who have a master’s degree or a professional degree (including those who are expected to acquire such a degree by March 2021).
 - (2) Those persons who have acquired a degree equivalent to a master’s degree or a professional degree (including those who are expected to acquire such a degree by March 2021) at a graduate school in another country.
 - (3) Those persons who have completed, while in Japan, a course of study through a correspondence course provided by a foreign school and have been awarded a degree equivalent to a master’s degree or a professional degree (including those who are expected to acquire such a degree by March 2021).
 - (4) Those persons who have completed a master’s course in an educational institution in Japan, which is (i) recognized under the education system of a foreign country as operating a graduate school program and (ii) otherwise designated by the Minister of Education, Culture, Sports, Science and Technology (MEXT Minister) of Japan, and have been awarded a degree equivalent to a master’s degree or a professional degree (including those who are expected to acquire such a degree by March 2021).
 - (5) Those who have completed programs in United Nations University, and who have received a degree comparable to a Master’s (including those who are planning to finish the enrolled program by March 2021.)
 - (6) A student who enrolled in overseas educational institutions, graduate schools or United Nations University, passed the tests or screenings stipulated in the Standards for the Establishment of Graduate Schools (Ordinance of the Ministry of Education No.28 of 1974) and are expected to have an equal to or greater academic performance than those who have completed a master's degree. Degrees expected to be awarded by March 2021 will be given consideration.
 - (7) Those persons designated by the MEXT Minister (Public Notice of the Ministry of Education No.118 of 1989).
 - (i) University graduates who have engaged in research for two or more years at universities or research institutes, etc., and who are expected by GSIS on the basis of research results, etc., to have attained a level of scholastic achievement equivalent to or greater than those with master’s or professional degrees.

- (ii) Those who have completed 16 years of education in a foreign country or who have completed in Japan a study program equivalent to 16 years of education in a foreign country through a correspondence course provided by a school in that country, and have engaged in research for two or more years at universities or research institutes, etc., and who are expected by GSIS on the basis of research results, etc., to have attained a level of scholastic achievement equivalent to or greater than those with master's or professional degrees.
- (8) Other students who, on the basis of an individual screening, are expected by GSIS to have a level of scholastic attainment equivalent to or above those with master's or professional degrees, and who will be at least 24 years old by March 2021.

Note 6: As those wishing to apply under (7) or (8) above will be subject to a prior documentation screening, they should consult beforehand with GSIS Educational Affairs Section and their prospective supervisor, submitting the documentation stipulated by GSIS by 18 June 2020.

3. Receipt of applications

Applications must be received between 8-16 July 2020. The reception is open from 9:00AM to 4.30PM. Mailed applications must reach us no later than 16 July 2020.

Receipt 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.

For those applying for transfer admission under (7) or (8) above, the documentation submitted for screening does not need to be re-submitted. Advancement applicants do not need to pay an application fee.

GSIS students applying for advancement

| No. | Documentation | Details |
|-----|--------------------------------------|--|
| 1 | Advancement application form and CV | Use GSIS forms. |
| 2 | Written consent to take exam | If you are currently employed, written consent to take the entrance examination (no set format, but a company seal, etc. are required) issued by the head of your division. The written consent to take the entrance examination is necessary only if you will continue to be employed after entering this school. |
| 3 | Envelope for official correspondence | Use the envelope designated by GSIS. (Enter name, address, and postcode and attach a 384 yen stamp.) If you wish to receive the return envelope at a location within Tohoku University, do not attach a stamp but instead write 'Within University' in red ink. |

Note 7: Where your current and proposed supervisors are different, please submit an academic transcript.

Transfer-admission applicants and applicants wishing to advance from other departments in Tohoku University

| No. | Documentation | Details |
|-----|--|--|
| 1 | Advancement/transfer application form and CV | Use GSIS forms. |
| 2 | Examination admission card and photo ID card | Use GSIS forms. (Attach to the photo ID card one photograph of yourself (head and shoulders, hatless) taken no more than three months prior to application.) |
| 3 | Certificate of (expected) completion or certificate of (expected) degree conferral, etc. | Certificate of (expected) completion issued by your university chancellor or faculty dean, certificate of (expected) master's degree issued by the National Institution for Academic Degrees and Quality Enhancement of Higher Education, or certificate of (expected) completion issued by the head of the school you last attended. Applicants with the qualification criteria specified in (6) need to provide a (expected) certificate showing that they are expected to have academic performance equal to or greater than those with a master's degree, instead of the certificate requested above. |

| | | |
|----|---|--|
| 4 | Academic transcript (Graduate school, etc.) | Issued by your university chancellor, graduate school dean or the head of the school you last attended, etc. |
| | Academic transcript (University (department), etc.) | Issued by your university chancellor or faculty dean. To be submitted only by those applying under (1), (2), (3), (4), (5) or (6). |
| 5 | TOEFL®Test or TOEIC®Test scoresheet (Note 8) | Required for applicants for selection for overseas students. etc. of Mathematics (Group 1), and applicants for general transfer-admission selection, applicants wishing to advance from other departments in Tohoku University and applicants for transfer-admission selection for overseas students, etc. 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 and TOEIC®Test examinations must have been taken no more than two years before the first day of the entrance examination. |
| 6 | Letter of acceptance | Written by your prospective supervisor (no set format) |
| 7 | Master's thesis (copies also accepted) | If you have no master's thesis, please submit papers or other written work showing your research results (around 2,000 characters, A4 size). |
| 8 | Application fee | 30,000 yen (Use a postal money order*, leaving the recipient column blank.) Not required if an applicant falls under any of the following: -Applicant wishing to advance (applicant who has been enrolled in the Tohoku University two-year program (master degree program) or a professional degree program and is expected to graduate in March 2021 -Japanese government (MEXT) scholarships -The admission fee waiver applicants affected by natural disasters |
| 9 | Receipt and duplicate copy thereof | Use GSIS form, entering your name. Not required if an applicant falls under any of the following: - Applicant wishing to advance (applicant who has been enrolled in the Tohoku University two-year program (master degree program) or a professional degree program and is expected to graduate in March 2021 -Japanese government (MEXT) scholarships -The admission fee waiver applicants affected by natural disasters |
| 10 | Return envelope for examination admission card | Use the envelope designated by GSIS. (Clearly write name, address, and postcode and attach a 384 yen stamp.) |
| 11 | Return envelope for official correspondence | Use the envelope designated by GSIS. (Clearly write name, address, and postcode and attach a 384 yen stamp.) If you wish to receive the return envelope at a location within Tohoku University, do not attach a stamp but instead write "Within University" in red ink. |

* Please request this at a postal savings bank or post office savings counter, adding in both the application fee and the handling fee.

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.

Where 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 certificate. For further details, please see pp. 8-11.

- Mathematics (group 1): : Applicants for transfer-admission selection for overseas students, etc.
- 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 transfer-admission selection, applicants wishing to advance from other departments in Tohoku University and applicants for transfer-admission selection for overseas students, etc.

Regarding groups 1, 2, 3, 5 and 6, 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, applicants for transfer-admission selection for mature students and applicants for transfer-admission selection for overseas students, etc. should submit the following.

Applicants for transfer-admission selection for mature students

| No. | Documentation | Details |
|-----|-------------------------------|---|
| 1 | Written consent to take exam | If you are currently employed, written consent to take the entrance examination (no set format, but a company seal, etc. are required) issued by the head of your division. |
| 2 | Employment certificate | An employment certificate about the employment period, content of work, and position (no set format, but a company seal etc. are required) issued by the head of your division. |
| 3 | Statement of purpose | Areas of interest, future goals, etc. (A4 size) |
| 4 | Research plan | A4 size (around 2,000 characters) |
| 5 | Explanation of past research | Master's thesis, your workplace research achievements, etc. (A4 size) |
| 6 | List of research achievements | List of papers and patents. (For joint work, note the percentage of your contribution.; A4 size) |

Applicants for transfer-admission selection for overseas students, etc.

| No. | Documentation | Details |
|-----|--|---|
| 1 | Letter of recommendation | Written by your previous graduate school supervisor or a person of the same position as the supervisor (no set format). Unnecessary for those who completed graduate school in Japan or for those who are expected to complete by March 2021. |
| 2 | Other | Submit papers, reports, etc., if any, that demonstrate scholastic ability. |
| 3 | Government scholarship certificate | Only overseas students on Japanese government (MEXT) scholarships at other graduate schools (submit a Japanese government (MEXT) scholarship certificate issued by their university) |
| 4 | Written consent to take exam, employment certificate, etc. | If you are currently employed, written consent to take the examination (no set format, but a company seal, etc. are required) issued by the head of your division. |

5. Selection method

1) Advancing students from GSIS

Selection will be based upon results from the two-year master's program and an individual assessment, etc.

2) General transfer-admission applicants, advancing students from other graduate schools of Tohoku University and applicants for transfer-admission selection for overseas students, etc.

Selection will in principle be based on a combination of written examinations, an oral examination, academic transcript and other submitted documents.

Applicants should refer to "the list of laboratories (areas)" on pp.12-15 or GSIS website (<https://www.is.tohoku.ac.jp/en/laboratory/>) to select the laboratory (area) to which they wish to be assigned and sit 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.

Where the applicant is advancing from another graduate school at Tohoku University and their prospective supervisor will be one of the persons examining their thesis, their master's program results may be sufficient to exempt them from the written examinations.

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 | System Information Sciences |
| | | D01, D02, D04, D05, D07-1, D07-2, D08, 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 method can also be chosen.

Special method: In place of the above written and oral examinations, the applicant can produce a paper or short essay concerning their background, undergo an oral examination, and sit a foreign language examination (English). (According to the outcome of the prior documentation screening, examination by such methods may not be permitted.)

Those wishing to be examined using the above method must consult with GSIS Educational Affairs Section and their prospective supervisor to confirm the specific examination method by 18 June, 2020.

(a) Schedule for screening examinations.

Examinations will be held by specialized subject group over 25-27 August 2020 according to the schedule on pp.8-11.

(b) 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 time and the date of the examinations, refer to "Examination schedule and examination content for each specialized subject group." (p.8)

3) Transfer-admission selection for mature students

Those applying for admission as mature students should in principle have been employed for two or more years as technicians, teachers or researchers in public offices, schools or companies, etc. In case that applicants have less than 2 years of work experience, only those who have a status as a researcher, teacher or technician after being transferred are subject to this selection. 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.

Screening will entail in principle 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.

6. Announcement of successful applicants

The examination code numbers of successful applicants will be listed on GSIS website around 5 p.m. on 4 September 2020 (<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

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 three years, 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."

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 advancement and transfer procedures that is sent out following 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 GSIS.

Note 10: The term of study cannot extend past six 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. Advancement and transfer-admission procedures

We will inform each applicant of advancement and transfer procedures in the end of February, 2021.

9. Costs

(1) Advancing students

Tuition fee (Per Semester) 267,900 yen (subject to change)
(Annual fee: 535,800 yen) (subject to change)

(2) Transfer-admission students

(a) Entrance fee 282,000 yen (subject to change)
(b) Tuition fee (Per Semester) 267,900 yen (subject to change)
(Annual fee: 535,800 yen) (subject to change)

(For both (1) and (2))

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 advancement or transfer-admission procedures, etc., sent out around the end of February 2021.

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 admission may be canceled even after admission.
- (3) When submitting an application by mail, use the official application envelope and send it by express registered mail.
- (4) If you have not received an examination admission card by 10 days before the entrance examination, please contact GSIS Educational Affairs Section.
- (5) Consultation is available for those applicants with special examination or study needs. Please contact GSIS Educational Affairs Section in this regard by 18 June 2020.
- (6) When requesting application documentation by mail, please enclose a self-addressed envelope (No. 2 size, or approximately 34 cm x 24 cm) on which your name, address and postal code are clearly written and with 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.
- (7) We will disclose the entrance exam results to those who took the entrance exam of Tohoku University Graduate School of Information Science. 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 Act on the Protection of Personal Information Held by Independent Administrative Agencies, etc.” and other laws and regulations, as well as “Tohoku University Regulations on the Protection of Personal Information,” 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.

June 2020

Educational Affairs Section,
Graduate School of Information Sciences, Tohoku University
6-3-09 Aramaki-Aza Aoba, Aoba-ku, Sendai, 980-8579, JAPAN
Tel: 022-795-5814
<https://www.is.tohoku.ac.jp/>

Examination schedule and examination content for each subject group

April 2021

Three-Year Doctoral Program: Transfer-admission selection for overseas students, etc.

| Group 1 Mathematics | |
|------------------------------|---|
| Written examinations * | <p>Specialized subjects 26 August 10:00-13:00</p> <p>Select three out of 10 questions on differential and integral calculus (2), linear algebra (1), applied mathematics (1), discrete mathematics (1), probability/statistics (1), complex analysis (1), differential equation (1), geometry (1), and algebra (1).</p> <p>The applicant must also write a short essay on a theme provided on the day of the examination.</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 GSIS office by the final day of the application period. (For mailing, GSIS's DI code is 2149.) Applicants whose native language is English should contact GSIS on an individual basis.</p> |
| Oral examination | <p>26 or 27 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 graduate school and their master's 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 2 Information and Biosystems | |
|---|---|
| Written examinations * | <p>Basic subjects 25 August 9:30-11:30 (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. When submitting the TOEFL®Test Institutional Score Report, please ensure that your score report is sent directly from U.S. ETS and reach to GSIS office by the final day of the application period. (For mailing, GSIS's DI code is 2149.) Applicants whose native language is English should contact GSIS on an individual basis.</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: http://www.ecei.tohoku.ac.jp/ecei_web/admission/exam_subject.html</p> |
| Oral examination | <p>26 or 27 August</p> <p>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 graduate school or their master's thesis (including theses under production). On the day of the examination, bring five copies of materials related to your presentation (A4 size).</p> |

Three-Year Doctoral Program: Transfer-admission selection for overseas students, etc.

| Group 3 Machine and Intelligence | |
|---------------------------------------|---|
| Written examinations * | 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. When submitting the TOEFL®Test Institutional Score Report, please ensure that your score report is sent directly from U.S. ETS and reach to GSIS office by the final day of the application period. (For mailing, GSIS’s DI code is 2149.) Applicants whose native language is English should contact GSIS 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.”) |
| | Mathematics A 25 August 9:30-11:00 (Meeting time 9:00) Differential and integral calculus, linear algebra, vector analysis |
| | Mathematics B 25 August 13:30-15:00 Ordinary differential equations, Partial differential equations, Fourier series and transform, Laplace transform |
| | Specialized subjects 26 August 9:00-12:00 (Meeting time 8:30) Select two from the following five subjects: thermodynamics, fluid mechanics, material dynamics, mechanical dynamics and control engineering |
| Oral examination | 27 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 20 minutes on the education they received at their former graduate school or their master’s 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). |

| Group 4 Civil Engineering | |
|--------------------------------|---|
| Oral examination | 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 graduate school and their master’s thesis (including theses under production). (PC projectors can be used. If you wish to use a PC projector, please contact the Educational Affairs Section beforehand.) Applicants will be asked questions on their presentation, drive and motivation, and research goals after admission. On the day of the examination, bring eight copies of materials related to your presentation (presentation outline, blueprints, etc.; A4 size). |
| Written examinations * | 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. When submitting the TOEFL®Test Institutional Score Report, please ensure that your score report is sent directly from U.S. ETS and reach to GSIS office by the final day of the application period. (For mailing, GSIS’s DI code is 2149.) |
| | Specialized subjects 25 August 13:00-15:00 Written examination will be taken on subjects in relation to applicants’ specialized fields. |
| | Notes (1) Regarding specialized subjects, select 3 questions from 4 questions. (2) Please consult your academic advisor about the examination content of specialized subjects. |

Three-Year Doctoral Program: Transfer-admission selection for overseas students, etc.

| 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 GSIS office by the final day of the application period. (For mailing, GSIS’s DI code is 2149.) Applicants whose native language is English should contact GSIS on an individual basis.</p> |
| | <p>Specialized subjects 26 August 10:00-13:00</p> <p>Answer two questions from these areas: general linguistics, syntax, semantics, morphology, semiotics, literary theory, literary hermeneutics, media, information literacy, cultural research, German, and French. Applicants for either languages or media should ensure that they answer questions from the areas designated in the book for questions respectively.</p> <p>Note: Applicants choosing German or French can use a dictionary. Dictionaries will be supplied by the examiner.</p> |
| Oral examination | <p>26 or 27 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 graduate school and their master’s 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). Overseas students from Tohoku University do not need to give a presentation, but they will be asked about their master’s thesis (including those under production) and their research goals following transfer, etc.</p> |

| Group 6 Psychology and Philosophy | |
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| 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 GSIS office by the final day of the application period. (For mailing, GSIS’s DI code is 2149.) Applicants whose native language is English should contact GSIS on an individual basis.</p> |
| | <p>Specialized subjects 26 August 10:00-13:00</p> <p>Select two out of 12 questions from these areas: psychology (sensation and perception, cognition, learning and memory, personality, psychometrics) and philosophy (history of philosophy). 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> <p>If you wish to be assigned to either of the following labs (cognitive informatics, human learning and memory, cognitive psychology or communication psychology), you will be required to produce a short essay (topic to be indicated at the examination venue).</p> |
| Oral examination | <p>27 August 10:00-</p> <p>Applicants must speak for approximately 20 minutes on the education they received at their former graduate school and their master’s 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). Overseas students from Tohoku University do not need to give a presentation, but they will be asked about their master’s thesis (including those under production) and their research goals following transfer, etc.</p> |

April 2021

Three-Year Doctoral Program: Transfer-admission selection for overseas students, etc.

| Group 7 Social Sciences | |
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| 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 GSIS office by the final day of the application period. (For mailing, GSIS's DI code is 2149.)</p> |
| | <p>Specialized subjects 26 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.</p> <p>※ State the name of the categories (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>26 or 27 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 graduate school and their master's 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.

List of laboratories (areas) within Tohoku University Graduate School of Information Sciences 2021

* For details on the research, etc., at these laboratories (areas), please see 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 | Prof. Shigeru SAKAGUCHI* | | | | |
| 2 | Information and Biosystems | Applied Mathematical Science | Statistical Physics | A05 | (Currently vacant) | Computer and Mathematical Sciences |
| | | Computation Science and Systems | Computation Science and Systems Computation Theory | A07 | (Currently vacant) | |
| | | | | Computer Structures | A08 | |
| | | | Intelligent Integrated Systems | 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 | |

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| 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 Assoc. Prof. Jun SUZUKI | | |
| | 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. Ichiro KURIKI Assoc. Prof. Chia-Huei Tseng | | |
| | Information Contents | Information Contents | B13 | Prof. Yoshifumi KITAMURA Assoc. Prof. Kazuki TAKASHIMA | | |
| | Software Construction | Software Construction | B15 | Prof. Atsushi OHORI* Assoc. Prof. Katsuhiro UENO | | |
| | Applied Informatics for Human and Life Sciences | Information and Applied Technology | Physical Fluctuomatics | D01 | Prof. Kazuyuki TANAKA Assoc. Prof. Masayuki OHZEKI | Applied Information Sciences |
| | | | Information Technology | D02 | Prof. Nei KATO Assoc. Prof. Yuichi KAWAMOTO | |
| | | Systems Bioinformatics | D04 | Prof. Kengo KINOSHITA Assoc. Prof. Takeshi OOBAYASHI Assoc. Prof. Hafumi NISHI Assoc. Prof. Kazunori YAMADA | | |
| | | | Biomodeling | D05 | Prof. Mitsuyuki NAKAO* Assoc. Prof. Norihiro KATAYAMA | |
| Applied Intelligence Software | Applied Intelligence Software | D07-1 | Prof. Takuo SUGANUMA Assoc. Prof. Toru ABE | | | |
| | | D07-2 | Assoc. Prof. Hideaki GOTO | | | |

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|-------------------------|-------------------------------|---|---|-------|--|------------------------------------|------------------------------|
| | | Information Network Systems | Information Network Systems | D08 | Assoc. Prof. Takaaki MIZUKI | Applied Information Sciences | |
| | | Brain Function Integration | Brain Function Integration | D10 | Prof. Yoshihiko HORIO | | |
| | | Health Informatics | Health Informatics | D11 | Prof. Yoshitaka KINOCHI 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 | (Currently vacant) | | |
| | | 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 | Assoc. 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 | Regional and Urban Planning | C12-1 | Prof. Tatsuhito KONO | | |
| | | | | C12-2 | Assoc. Prof. Junya FUKUMOTO | | |
| | | Road Transportation and Traffic | Road Transportation and Traffic | C13-1 | Prof. Takashi AKAMATSU | | |
| | | | | C13-2 | (Currently vacant) | | |

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|---|---------------------------|---|---|-----|--|-----------------------------------|
| 5 | Languages and Media | Human Information Science | Language and Information Science | C01 | Assoc. Prof. Akira KIKUCHI* | Human-Social Information Sciences |
| | | | Verbal Text Analysis | C06 | Prof. Yoshiki OGAWA | |
| | | Media and Information Science | Media and Culture | C14 | Prof. Tatsuya HORITA Senior Assis. Prof. Kuniko SAKATA | |
| | | | Media and Semiotics | C15 | Assoc. Prof. Naoko MORITA | |
| 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-Politico 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, 2022.

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