



## October 2024 Admission FGL Program Undergraduate Courses

## **General Education Guidebook**



https://www.insc.tohoku.ac.jp/english/fgl-current-students/ (FGL website for Current Students)

> April 2025 Tohoku University

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## **Academic Calendar of 2025 General Education Program**

**Spring Semester** 

| Spring Semester                            |  |
|--|--|
|  | [AMC] April 4 (Fri.) 10:00-12:00 Katahira Campus<br>South Multidisciplinary Research Laboratory 2, 4th floor, Seminar Room |
| Orientation for the 3rd semester           | [IMAC-U] April 2 (Wed) 12:30-17:15 Examination   |
| (Specialized subjects for each department) | April 3 (Thu.) 10:00-11:00 Orientation   |
|  | [AMB] There will be no course orientation.   |
|  | April 8 (Tue.) — August 5 (Tue.), 2025   |
| Classes in 3 <sup>rd</sup> Semester        | <1Q>April 8 (Tue.) — June 10 (Tue.), 2025  |
|  | <2Q>June 4 (Wed.) — August 5 (Tue.), 2025  |
| Class Registration by website              | April 8 (Tue.) — April 21 (Mon.), 2025   |
| Drop / Withdrawal for Class Registration   | April 22 (Tue.) — May 9 (Fri), 2025  |
| Semester-end Vacation                      | August 6 (Wed.) — September 30 (Tue.), 2025  |

#### **Fall Semester**

| 1 411 2 111 2 111                                       |   |
|---|---|
| Classes in 4 <sup>th</sup> Semester                     | October 1 (Wed.) —February 3 (Tue.), 2026 <3Q>October 1 (Wed.) —December 1 (Mon.), 2025 <4Q>November 27 (Thu.) —February 3 (Tue.), 2026 |
| Class Registration by website                           | October 1 (Wed.) — October 14 (Tue.), 2025  |
| Drop / Withdrawal for Class Registration                | October 15 (Wed.) — October 31 (Fri.), 2025   |
| Winter Break  | December 29 (Mon.), 2025 – January 2 (Fri.), 2026   |
| No classes due to Common Test for University Admissions | January 16 (Fri.), 2026   |
| Semester-end Vacation                                   | February 4 (Wed), 2026—late March   |

## **Class Timetable**

| Period     | Class start/finish | Comments                                      |
|------------|--------------------|---|
| 1st Period | 8:50 - 10:20       |   |
| 2nd Period | 10:30 - 12:00      |   |
| 3rd Period | 13:00 - 14:30      | A chime will sound when classes start/finish. |
| 4th Period | 14:40 - 16:10      |   |
| 5th Period | 16:20 - 17:50      |   |
|            |                    |   |

## Class Schedule of AY2025 General Education Subjects

(from April, 2025 to March, 2026)

|      |     | 8+8           | 8+8     | 8+8 | 8+8 | 8+8  |     | • |        |     | 8+8        |
|------|-----|---------------|---------|-----|-----|------|-----|---|--------|-----|------------|
|      | Sun | Mon           | Tue     | Wed | Thu | Fri  | Sat |   |        | Sun | Мо         |
| 2025 |     |               | 1       | 2   | 3   | 4    | 5   |   |        |     |            |
| 2023 | 6   | 7             | 8       | 9   | 10  | 11   | 12  |   |        | 5   | 6          |
|      | 13  | 14            | 15      | 16  | 17  | 18   | 19  |   | Oct.   | 12  | <b>(13</b> |
|      | 20  | 21            | 22      | 23  | 24  | 25   | 26  |   |        | 19  | <u>20</u>  |
| Apr. | 27  | 28            | 29      | 30  | ••• | •••  | ••• |   |        | 26  | 27         |
|      |     | •••           | •••     | ••• | ••• | •••  | ••• |   |        |     | •••        |
|      | Sun | Mon           | Tue     | Wed | Thu | Fri  | Sat |   |        | Sun | Мо         |
|      |     |               |         |     | 1   | (2)  | 3   |   |        |     |            |
|      | 4   | 5             | 6       | 7   | 8   | 9    | 10  |   |        | 2   | 3          |
| May  | 11  | 12            | 13      | 14  | 15  | 16   | 17  |   | Nov.   | 9   | 10         |
| '    | 18  | 19            | 20      | 21  | 22  | 23   | 24  |   |        | 16  | 17         |
|      | 25  | 26            | 27      | 28  | 29  | 30   | 31  |   |        | 23  | 24         |
|      |     | •••           | •••     | ••• | ••• | •••  | ••• |   |        | 30  | •••        |
|      | Sun | Mon           | Tue     | Wed | Thu | Fri  | Sat |   |        | Sun | Мо         |
|      | 1   | 2             | 3       | 4   | 5   | 6    | 7   |   |        |     | 1          |
|      | 8   | 9             | 10      | 11  | 12  | 13   | 14  |   |        | 7   | 8          |
| Jun. | 15  | 16            | 17      | 18  | 19  | 20   | 21  |   | Dec.   | 14  | 15         |
|      | 22  | 23            | 24      | 25  | 26  | 27   | 28  |   | 200.   | 21  | 22         |
|      | 29  | 30            |         |     |     |      |     |   |        | 28  | 29         |
|      |     |               |         |     |     |      |     |   |        |     |            |
|      | Sun | Mon           | Tue     | Wed | Thu | Fri  | Sat |   |        | Sun | Мо         |
|      |     |               | 1       | 2   | 3   | 4    | 5   |   | 2026   |     |            |
|      | 6   | 7             | 8       | 9   | 10  | 11   | 12  |   |        | 4   | 5          |
| Jul. | 13  | 14            | 15      | 16  | 17  | 18   | 19  |   |        | 11  | 12         |
|      | 20  | 21            | 22      | 23  | 24  | 25   | 26  |   |        | 18  | 19         |
|      | 27  | 28            | 29      | 30  | 31  |      |     |   | Jan.   | 25  | 26         |
|      |     | •••           | •••     | ••• |     | •••  |     |   |        |     |            |
|      | Sun | Mon           | Tue     | Wed | Thu | Fri  | Sat |   |        | Sun | Мо         |
|      |     |               |         |     |     | 1    | 2   |   |        | 1   | 2          |
|      | 3   | 4             | 5       | 6   | 7   | 8    | 9   |   |        | 8   | 9          |
| Aug. | 10  | 11            | 12      | 13  | 14  | 15   | 16  |   | l Feb. | 15  | _16        |
|      | 17  | 18            | 19      | 20  | 21  | 22   | 23  |   |        | 22  | 23         |
|      | 24  | 25            | 26      | 27  | 28  | 29   | 30  |   |        |     |            |
|      | 31  | •••           | •••     | ••• |     | •••  |     |   |        |     |            |
|      | Sun | Mon           | Tue     | Wed | Thu | Fri  | Sat |   |        | Sun | Мо         |
|      |     | 1             | 2       | 3   | 4   | 5    | 6   |   |        | 1   | 2          |
|      | 7   | 8             | 9       | 10  | 11  | _12_ | 13  |   |        | 8   | 9          |
| Sep. | 14  | 15            | 16      | 17  | 18  | 19   | 20  |   | Mar.   | 15  | 16         |
| 556. | 21  | 22            | 23      | 24  | 25  | 26   | 27  |   |        | 22  | 23         |
|      | 28  | 29            | 30      |     |     |      |     |   |        | 29  | 30         |
|      |     | - <del></del> | <b></b> |     |     | •••  |     |   |        |     |            |
| I    |     |               |         |     |     |      |     | I |        |     |            |

| Sun Mon Tue Wed Thu Fri           1       2       3         5       6       7       8       9       10         12       13       14       15       16       17         19       20       21       22       23       24 | Sat<br>4 |
|--|----------|
| Oct. 5 6 7 8 9 10 12 (13) 14 15 16 17  |          |
| Oct. 12 13 14 15 16 17   |          |
|  | 11       |
|  | 18       |
|  | 25       |
| 26 <u>27 28 29 30 <b>31</b></u>  |          |
|  |          |
| Sun Mon Tue Wed Thu Fri  | Sat      |
|  | 1        |
| 2 3 4 5 6 7  | 8        |
| Nov. 9 10 11 12 13 14  | 15       |
| 16 17 18 <u>19</u> 20 <b>21</b>  | 22       |
| 23 24 25 (26 27 28   | 29       |
| 30   |          |
| Sun Mon Tue Wed Thu Fri  | Sat      |
| 1 2 3 4 5  | 6        |
| 7 8 9 10 11 12   | 13       |
| Dec. 14 15 16 17 18 19   | 20       |
| 21 22 23 24 25 26  | 27       |
| 28 29 30 31  |          |
|  |          |
| Sun Mon Tue Wed Thu Fri  | Sat      |
| 2026 1 2   | 3        |
| 2020 4 5 6 7 8 9   | 10       |
| 11 12 <u>13 14 15</u> 16   | 17       |
| 18 19 20 21 22 23  | 24       |
| Jan. 25 26 27 28 (29 30  | 31       |
|  |          |
| Sun Mon Tue Wed Thu Fri  | Sat      |
| 1 2 (3) 4 5 6  | 7        |
| 8 9 10 11 12 13  | 14       |
| Feb. 15 16 17 18 19 20   | 21       |
| 22 23 24 25 26 27  | 28       |
|  |          |
|  |          |
| Sun Mon Tue Wed Thu Fri  | Sat      |
| 1 2 3 4 5 6  | 7        |
| 8 9 10 11 12 13  | 14       |
| Mar. 15 16 17 18 19 20   | 21       |
| 22 23 24 25 26 27  | 28       |
| 29 30 31   |          |
| 23 30 31   |          |

Normal Classes \_ \_ \_ Intensive Classes No classes (holidays, etc.) Indicates end of quarter O: Makeup class for Monday will be held on May 2, November 26 and January 29.

#### note:

- 1 Class will be canceled:
  - •From July 30(Wed.) to July 31(Thu.) for the Campus Visit Days.
  - On October 24(Fri.) for the University Festival.
  - •On January 16(Fri.) for the Common Test for University Admissions.
- 2 Regular Medical Checkups:

From April 21(Mon.) to 25(Fri.) and from May 7(Wed.) to 20(Tue.)

Makeup class for Friday will be held on February 3. ♦: Class will be held on October 13 (Mon.) although it is a national holiday.

#### I General Education

# 1. Tohoku University's Admission/Diploma/Curriculum Policies for the Undergraduate Program

#### **Admission Policy**

Tohoku University seeks students who sympathize with the university's mission, and who possess either/both of the following:

- (1) The desire to significantly contribute as researchers by seriously addressing the issues facing 21st century human society or
- (2) The desire to significantly contribute to the development of society as high-level professionals with abundant knowledge and leadership, and the strength of will, bold academic curiosity, and fundamentally excellent academic abilities to realize this desire.

#### ODiploma Policy

Tohoku University confers the bachelor's degree on students who achieve the following goals.

- (1) Obtain knowledge in their specialized fields and a multifaceted perspective based on an interest in and broad knowledge of academia in general.
- (2) Obtain the education necessary to become accomplished adults, and be able to contribute to society using expertise specific to their fields of specialization.
- (3) Have the awareness and vision to assume leadership/core roles in the global community while developing fundamental abilities.

#### **OCurriculum Policy**

Tohoku University structures and implements its educational curriculum as follows to ensure that students meet the goals described in the Diploma Policy.

- (1) Offer a curriculum that creates organic links between General Education Subjects to foster broad knowledge and education, and Specialized Subjects to confer basic knowledge of specialized fields.
- (2) Following the principle of "Research First," promote the development of educational methods and establishment of educational systems while implementing active learning both in and out of class.
- (3) Develop the students' ability to learn independently by evaluating learning achievements and applying the results.

#### 2. Goals and Mission of General Education

The goals of this university's General Education program are to foster students who possess specialized knowledge that they can use in practical society and advanced research, comprehensive, modern knowledge and deep compassion, and an international perspective. It will fulfill basic educational requirements, providing the foundations for specialized and/or graduate education, and confer the below fundamental basic abilities, knowledge, and expertise:

- 1) Basic knowledge and expertise needed for modern, international citizens to lead a social life
- 2) Basic accomplishments and skills that will provide core character-building for the modern world
- 3) Knowledge and skills related to a wide range of academic fields to aid understanding in specialized majors
- 4) Basic knowledge and skills required to study more specialized areas

To fulfill its mission, General Education has a curriculum comprising four subject categories: Foundations, Advanced Subjects, Languages, and Basics of Discipline. Each category is made up of classes arranged in subject groups, which are implemented to achieve the goals below.

|                         | These subjects are comprised of Navigating Academia, Humanities, Social Sciences,         |
|-------------------------|---|
|                         | Natural Sciences, and Transdisciplinary Subjects.   |
|                         | • In the Navigating Academia, the basic attitude of those involved in academic research   |
|                         | is developed through understanding of how academic research should be conducted.          |
| Eassa dations           | In the Humanities, Social Sciences, and Natural Sciences, humanities students focus       |
| Foundations             | on science courses, while science students focus on humanities courses, thereby           |
|                         | creating students who are knowledgeable in both the sciences and the humanities. In       |
|                         | the Transdisciplinary Subjects, students will not be confined to their own specialized    |
|                         | fields, but will be exposed to a variety of fields, and will develop a foundation for the |
|                         | ability to solve problems through collaboration with people from various fields.          |
|                         | • This group is composed of subjects dealing with Contemporary Competencies, and          |
| A devenue of Coulcinate | Cutting Edge Subjects.  |
| Advanced Subjects       | •Contemporary Competencies provide the knowledge/skills required of educated              |
|                         | persons in the modern context, and foster the habit of taking ownership over problems     |

|                      | that require global effort to solve. Cutting Edge Subjects stimulate awareness of what it means to study at a comprehensive research university and motivate academic research by providing contact with cutting edge scholarship, regardless of field.   |
|----------------------|---|
| Languages            | • This category is composed of the Foreign Languages and Japanese groups. • It fosters language abilities and intercultural understanding necessary for modern/international/educated persons. It also aims to provide the English skills necessary for academic objectives, basic multilingual competence in the students' first and second foreign languages, and basic Japanese competence for international students. |
| Basics of Discipline | <ul> <li>This category is composed of the Basic Humanities, Basic Social Sciences, Basic Mathematics, Basic Physics, Basic Chemistry, Basic Biology, and Basic Earth and Space Science groups.</li> <li>It is connected to the major fields of the undergraduate departments, and provides basic knowledge/skills needed for the relevant major.</li> </ul>   |

#### 3. Terms & Semesters

Tohoku University uses a two-semester system, with the period of April 1 to September 30 defined as first semester, and October 1 to March 31 as second semester. The semester comprises the basic unit of the education curriculum; General Education lasts from the 2nd to 4th semesters. FGL Students will begin classes from the 2nd Semester.

| 1st Year     | 2nd Year |         |         |         | 3rd & 4th Year                                  |
|--------------|----------|---------|---------|---------|---|
| Fall         | Spring   |         | Fa      | 11      |   |
|              | 3rd Ser  | nester  | 4th Ser | nester  | 5th – 8 <sup>th</sup> /9 <sup>th</sup> Semester |
| 2nd Semester | 1st      | 2nd     | 3rd     | 4th     | Jui = 8 / 9 Semester                            |
|              | Quarter  | Quarter | Quarter | Quarter |   |

#### 4. Classes & Credits

Each class is held 15 times (weeks) per semester, and consists of lectures, seminars, experiments, laboratory work, skill tests, or some combination of these. Some classes may be implemented in intensive lectures. The number of credits reflects the amount of academic work performed, with one credit requiring 45 hours of study. General Education subjects confer two credits in consideration of the methods used in class, educational effect, and amount of study required outside of class, as indicated below.

| Class Format                              | Hours of<br>Class | Content of Study   |
|---|-------------------|--|
| Lectures                                  | 30 hrs.           | Students take 15 ninety-minute classes, a course of four-hour lectures, a 2-4 hour |
| Seminars                                  | 30 - 60 hrs.      | seminar, experiments, laboratory work, and   |
| Experiments, Laboratory Work, Skill Tests | 60 - 90 hrs.      | skill tests, requiring 2 hours per class of preparation/review.                    |

General Education also uses different class format such as below.

• International Coeducational Seminar: This is a learning activity and educational method in which learners from diverse linguistic and cultural backgrounds learn from each other through group work and projects. Learners are aware that there are different ways of thinking and approaches to things, and they have the opportunity to deepen their self-understanding by comparing themselves with others, which ultimately leads to the creation of new values. From this series of processes, students can not only improve their communication skills, but also grow internally by broadening their perspectives, acquiring critical thinking skills, and increasing their sense of self-efficacy. International co-curricular activities are a versatile educational method that can be applied to any field of study.

#### **5. General Education System**

General Education is for all students at the university. The Academic Affairs Council, which is composed of educators from every department, is responsible for planning and operating its subject categories and groups and performs overall coordination and supervision. The Institute for Excellence in Higher Education (IEHE) also

provides support for its university-wide system. The IEHE was founded in April 2014 by merging five independent educational organizations at Tohoku University in order to implement advanced liberal arts education and provide a higher level of student support. Instructors from each department of the faculties, graduate schools, research institutes/centers, and the university hospital are responsible for General Education classes, and take part in a supportive, cooperative university-wide class-management system to provide students an educational foundation with a broad perspective.

#### **II Registering for General Education Subjects**

#### 1. Registration Schedule

Students must register for classes in compliance with rules on required subjects (subjects which students must take), recommended subjects (classes that students are urged to take) and registration prerequisites (in cases where students cannot register for one class unless they have already completed another class) as per the student handbook for their faculty, and orientation.

The number of General Education subjects that are taught in English and open to Future Global Leadership Undergraduate Courses students is limited, so FGL students should register as per the Class Timetable for the FGL Courses.

Notes on General Education subjects Registration

- •Classes that are not designated by your faculty's Student Guide will not be credited towards graduation requirements.
- Please register for classes in the appropriate semester, as listed in your faculty's Student Guide. You cannot register for a class before the appropriate semester (advanced registration) as designated by the faculty (department/division).
- •Students cannot register for two subjects with the same subject name, even if the topics, instructors, semester, and day/time of the two subjects are different. The same applies to taking a subject with the same name as one for which the student has already received credit.

#### 2. Registration Group

As class schedules are drawn up with consideration for class sizes in each faculty/year/division, in general you must register within groups created for your own faculty (own division). In principle, you cannot register for classes in groups other than those created for your own faculty (i.e. in other divisions).

Even in classes held for your own faculty, groups are sometimes further subdivided by Student ID Number.

For classes outside your division, it is possible that you will not be given permission to register due to the class content or class size.

#### 3. Method of conducting classes (Online class system)

The classes will be conducted mainly in face-to-face classes held on campus, with an effective combination of online classes according to the content and characteristics of each class. Please refer to the FGL website to see if online classes are scheduled.

#### FGL Website: https://www.insc.tohoku.ac.jp/english/fgl-current-students/

#### **1** ISTU/DC System (ISTU on the Digital Campus System)

ISTU provides online access to class videos and materials. ISTU is used with a Tohoku University ID. URL: https://www.dc.tohoku.ac.jp/en/

#### 2 Google Classroom

Google Classroom is an online class system provided by Google, Inc. To view videos and materials for classes using Google Classroom, each student must add his/her own classes within Google Classroom using a "Class Code" for Google Classroom. (Note: "Class codes" are not "course numbering" or "lecture codes" on the syllabus.) The class codes for Google Classroom are listed on the FGL website during the class registration period.

#### 3 Google Meet

Google Meet is a videoconferencing system that runs in a web browser and can be used with a DC Mail account.

#### 4 Microsoft Teams

This is a system that allows you to conduct video conferences using the Teams application or a web browser. Use the Microsoft 365 ID assigned to each student. Please see the guide below for details.

URL: https://www.cds.tohoku.ac.jp/en/

For other information, please check the Tohoku University Online Class Guide.

URL: https://olg.cds.tohoku.ac.jp/home

#### 4. Registration Procedures

To register for classes (and receive credits), it is necessary to complete the registration procedures on UNIPA.

If you do not undergo Web-based registration, you will not receive credit for classes even if you attend the lectures and take the exams.

The registration procedures are Web-based. In general, the classes you enter cannot be changed except during the Web-based registration confirmation/revision period. During this period, please check your registration details online, and make any necessary changes at the Student Affairs Division.

Web-based registration is performed separately for each semester. You can also check your grades and credits online.

You should inquire at the faculty office when registering for classes outside your division.

For classes for which you have registered, please check the syllabus and prepare for the online class system (ISTU or Google Classroom) you plan to use.

#### 5. Notes on Registration and Checking Grades

#### (1) Web-based registration, confirmation/revision period

Spring semester: April 8 (Tue.) – April 21 (Mon.) Fall semester: October 1 (Wed.) – October 14 Tue.)

① Course registration will be conducted via the Student Affairs Information System "UNIPA" website during the above period per semester. Access the portal site at the following URL and click on "Academic Affairs Information System" under the "System" tab.

#### Student Affairs Information System: https://slink.secioss.com/user/index.php?tenant=auth.tohoku.ac.jp

\*The Operation Manual is available from the following website.

https://rp.auth.tohoku.ac.jp/gkms/manual/index.html

- \*It requires a Tohoku University ID and password to perform Web-based registration.
- \*The server will receive heavy access on the final day of registration, so try to finish registering your classes before then.



- \*Remember that "Google Classroom" is not official class registration. Please be sure to register both. So does canceling classes.
- ② Select the classes you wish to take on the course registration screen of the "UNIPA" Student Affairs Information System, and click the "Final Confirmation" button. After confirming that there are no course registration errors, be sure to click the "Submit" button. Please note that registration is not completed only by selecting classes.
  - \*If there is an error in your course registration, the error will be indicated in red in the check result column. In this case, please correct the registration details, click the "Final Confirmation" button again, and confirm that there are no errors before clicking the "Submit" button.
- ③ Please register once during the first week of the registration period in order for the instructors to know the number of registered students.
  - \*Once you have registered for classes, you can change your registration as many times as you like during the course registration period. Please note that registration may be closed earlier at the instructors' judgment. If a instructor provides instructions on the syllabus or learning support systems such as Google Classroom, please follow it by completing course registration by the designated date, regardless of the deadline for web registration.
- 4 After the deadline, it is unable to change registration. Please confirm your registration carefully in advance.
- ⑤ Please be sure to register and confirm your course registration as early as possible, as the system connection may not always be successful due to heavy access on the deadline.
- ⑥ If you have added classes to Google Classroom during the online registration period but did not register for them in the end, or if they were not approved due to course registration adjustments, <u>please cancel your Google Classroom registration on your own.</u> Also, please do not add classes to Google Classroom for which you have not registered. (This may cause confusion, such as differences between the actual number of students and the number of students registered in Google Classroom.)

#### [Attention]

#### Contact Information for Instructors in charge of classes (全学教育科目授業担当教員連絡先一覧)

Contact information for Faculty Members in Charge of General Education Courses can be found on the "List of Contact Information for Faculty Members in Charge of General Education Courses" posted on the General Education website. Search for contact information by "Class code" and "Class subject".

Faculty members' contact information is not available on the Student Affairs Information System (UNIPA) or the Tohoku University Syllabus Search System (Quick Syllabus).

If you have any questions, please contact the Educational Affairs Section. Be sure not to visit a faculty member's laboratory without prior notice.

#### (2) Procedures for deregistering classes

Spring semester: April 22 (Tue.) – May 9 (Fri.) Fall semester: October 15 (Wed.) – October 31 (Fri.)

① If you wish to "deregister" a class for which you have finalized registration, you must ask the course instructor to get approval by email and submit class cancellation form during the designated period above.

Use DC Mail account when you send an e-mail to the instructor as your identification.

\*Class cancellation form will be informed by Academic Affairs Division in advance.

- ② If you perform the required procedures, you will not be graded for that class, and your grades will show an "E" (deregistered) instead.
- 3 By registering for a class, you commit to taking that class and being graded on it. If you abandon a class before completing it, you will receive a D grade (Fail).

#### (3) Confirming grades

Spring semester: will be announced on August 21 (Thu.) Fall semester: will be announced on February 16 (Mon.)

- ① Please confirm your grades online using the "Grades Inquiry" screen via Student Affairs Information System "UNIPA".
- ② For details on grading, please see "III Examinations, Grading and Reports."

#### 6. Taking multiple courses

In General Education, students may take courses with the same title in the same semester by applying in advance for each course. It is also possible to repeat courses that have already been completed.

However, even if you take more than one course, only one of them will count toward graduation requirements, and the other courses are auditing courses.

Courses that can be taken more than once are those with different course titles (syllabus contents) as listed below.

- •Courses in the Humanities and Social Sciences of the Foundation Subjects
- Sports A in the Health and Sports of the Transdisciplinary Subjects of the Foundation Subjects
- •International Education of the Contemporary Competencies subjects of the Advanced subjects

Please note that if you wish to take multiple courses in the same semester, you must decide in advance which of them will count toward your graduation requirements before registering.

Registration for graduation requirement courses must be done online within the registration period. For auditing courses, applications will be accepted by e-mail to the Educational Affairs Division. For more information, please contact the Educational Affairs Division and see page 36 for their location and window number.

#### 7. Using Student-owned Computers for Educational Activities

At Tohoku University, PCs are used for daily learning activities such as class registration procedures, checking grades, viewing class plans/syllabuses, distributing lecture materials, writing and submitting assignment reports, and other communications.

Students are required to bring their laptop computers when instructed by the instructor during face-to-face classes. Please check the General Education class syllabi to see whether your classes require a computer.

#### 8. Campus Wi-Fi

All campuses have Wi-Fi access points in key locations for wireless Internet service (eduroam). The laptop computer to be brought to the face-to-face classes must be set up for eduoroam in advance.

For connection instructions and other details, please refer to "Online Guide: Information Services for Education in Tohoku University" (https://www.dc.tohoku.ac.jp/guide/wifi/wifi.html).

#### 9. Enrolling for Japanese Language

Students on the FGL Courses are required to take 10 credits of Japanese language. Students who have taken the "Japanese Language Proficiency Test" or the "Examination for Japanese University Admission for International Students" and met certain conditions, specified elsewhere, may apply to have their test results recognized in place of coursework, and receive up to seven of the required 10 Japanese language credits.

International students at this university who have obtained a designated number of points on Japanese

language tests etc. shall be considered to have completed a Japanese language class, and shall be awarded a predetermined number of credits upon application.

#### Agreement on Credit Awards for Japanese Language Tests etc. Academic Affairs Council January 5, 2011

- 1. As per Articles 26-6 and 26-7 of the Tohoku University Faculty Regulations, and as elsewhere stipulated by the Minister of Education, Culture, Sports, Science and Technology, students who have obtained the specified number of points on the Japanese language tests etc., and students for whom it is recognized to be educationally beneficial by their faculty, shall be considered by this University to have completed a Japanese language class, and shall be awarded credits, as stipulated by the rules of their faculty.
- 2. Faculties that may approve these credits are as follows.
  Faculty of Science, School of Engineering, Faculty of Agriculture (students belonging to Future Global Leadership Undergraduate Courses)
- 3. Languages subjects for which these credits can be awarded are as follows. Japanese
- 4. Subjects for which credits can be awarded, Japanese language tests, criterion for recognition, and number of credits are as follows.

Recognized subjects: Basic Japanese I, Basic Japanese II and Intermediate Japanese are certified in that order. The maximum number of approved credits is 7.

Name of Test:

- Japanese Language Proficiency Test—JLPT (Japan Educational Exchanges and Services)
- ii) Examination for Japanese University Admission for International Students—EJU (Japan Student Services Organization)

#### Criterion and Number of Credits:

| Criterion                | Number of Credits | Score | Subject                          |
|--------------------------|-------------------|-------|----------------------------------|
|                          |                   | AA    | Basic Japanese I (4 Credits)     |
| JLPT N3 or higher        | 7                 | AA    | Basic Japanese II (3 credits)    |
| _                        |                   | AA    | Intermediate Japanese(3 credits) |
| JLPT N4                  | 7                 | AA    | Basic Japanese I (4 Credits)     |
| JLF I 1N4                | /                 | AA    | Basic Japanese II (3 credits)    |
| JLPT N5                  | 4                 | AA    | Basic Japanese I (4 Credits)     |
| EJU 220 points or higher |                   | AA    | Basic Japanese I (4 Credits)     |
| (Not including Writing)  | 7                 | AA    | Basic Japanese II (3 credits)    |
| (Not illefuding writing) |                   | AA    | Intermediate Japanese(3 credits) |
| EJU 200 points or higher | 7                 | AA    | Basic Japanese I (4 Credits)     |
| (Not including Writing)  | /                 | AA    | Basic Japanese II (3 credits)    |

#### 5. Application Instructions

- i) Documents required for the application are the application form and a copy of the test certificate or score sheet.
- ii) The date entered on the test certificate or score sheet must be less than two years prior to the date of application.

#### 6. Certification Procedure

- i) Certification of credits will be performed by the Japanese Language Committee of the Academic Affairs Council (hereafter, Japanese Language Committee) based on a copy of the test certificate or score sheet.
- ii) Results of screenings by the Japanese Language Committee will be reported to the Educational Records and Programs Committee of the Academic Affairs Council.
- iii) Credits for applications submitted before the end of January or the end of June will be certified the same semester; credits for applications submitted after February 1 or July 1 will be certified the following semester
- 7. Any items necessary for credit certification, other than those specified in this agreement, will be specified by the Japanese Language Committee.

Enacted on January 5, 2011 (enforced on October 1, 2011)

Students who feel that the class does not match their Japanese abilities may instead select 3 subjects (3 credits) from the General Education Japanese A-J classes (1 credit each; aimed at advanced JLPT N1-level students). These subjects are held for privately financed international students belonging to degree courses taught in Japanese.

<sup>\*</sup>Japanese class; Intermediate Japanese (3 credits)

If you wish to do this, speak to your Japanese language instructor in advance to confirm that your abilities will be sufficient before registering. Inquire with the FGL staff in the Student Exchange Division or General Education Operating Section in the Educational Affairs Division for the Japanese A-J timetable.

#### III Examinations, Grading and Reports

#### 1. Exam Schedule, Methods

Examinations will be conducted by class instructors during the course. Please follow your instructor's directions when taking examinations. Information on examinations may sometimes be announced on bulletin board so please check them carefully.

Grading methods for each subject are described in the syllabus.

#### 2. Notes on Examinations

When submitting written exams and reports for General Education subjects, never engage in misconduct as described below. Also, please comply with all of the following Notes on Written Examinations. If any misconduct is detected in written examinations or reports, those involved will be subject to severe disciplinary measures.

#### <Notes on Written Examinations>

- 1. Follow the exam proctor's instructions and refrain from any misconduct.
- 2. Please fill seats in the exam room starting from the front row.
- 3. Place your student ID card on your desk during the examination.
- 4. Except for writing utensils, especially mobile devices such as smartphones or smartwatches, wearable devices, and pieces of paper, etc., should not be left on the desk or worn but should be put away in your bag. Those electronic devices should be turned off at that time. You may use a dictionary, etc. only if permitted to do so.
- 5. Writing mats may be used only if permitted by the proctor.

#### <Definition of Misconduct>

#### **Written Examinations**

- (1) Taking an exam in place of another person, or having another person take an exam in your place.
- (2) Using unauthorized textbooks, dictionaries, reference materials, notes, memos, etc. during the examination.
- (3) Peeking at other people's answers, showing others your answers, receiving answers from others, etc.
- (4) Exchanging answers with others.
- (5) Placing on your desk or wearing smartphones, smartwatches, other mobile or wearable devices, pieces of paper, etc., that the proctor has instructed to be stored in your bag.
- (6) Behavior that is contrary to the proctor's instructions and/or disrupts the fair administration of the examination.
- (7) Any other behavior that is deemed to be equivalent to the above.

#### Reports etc.

- (1) Plagiarism: Ex. intentionally quoting your own or another author's copyrighted work without specifying the source or using the content of another student's report.
- (2) Fabrication: Ex. creating nonexistent test results and data, quoting nonexistent (fictitious) sources
- (3) Alteration: Ex. deliberately altering data and processes, manufacturing inauthentic results
- (4) Any other activities forbidden by the class instructor for the reason that they would prevent accurate evaluation of learning achievements. Ex.

#### 3. Makeup Examinations, etc.

If you are unable to take an examination, etc., due to illness, accident, or bereavement (loss of an immediate family member), you can apply through the Student Affairs Division to take a makeup examination within three days (including the day of the examination)) after the end of the relevant examination, excluding Saturdays, Sundays, and national holidays. The following documents are required.

- For illness: Doctor's diagnosis
- For accidents: Accident Report Form
- For bereavement: Corroborating documentation

#### 4. Grading

Grading is described in the syllabus for each subject.

However, grading for General Education subjects is handled as follows.

#### (Grading)

1. Grading for General Education subjects is as follows.

| Grade | Description of Evaluation                                  | Criteria for Points (out of 100) |
|-------|--|----------------------------------|
| AA    | The student's performance was particularly exceptional.    | 90-100 points                    |
| A     | The student's performance was excellent.                   | 80—89 points                     |
| В     | The student's performance was above average.               | 70—79 points                     |
| С     | The student passed.  | 60-69 points.                    |
| D     | The student failed or quit the class.                      | 59 points or below               |
| Е     | The student deregistered as per the proscribed procedures. | _                                |

#### Comments

- 1) Grading and evaluation will take into account examination performance, reports submitted, attendance, and registration status.
- 2) The "AA" grade was implemented for incoming students in the 2004 academic year onward; for students who enrolled prior to 2004, there is no distinction between the "AA" and "A" grades.
- 3) The grade designated as "E" will be given under the following conditions.
  - a) If the student deregisters at the Student Affairs Division during a designated period.
  - b) The student takes a leave of absence, or withdraws, from the university
- 4) This grading system is effective as of the subjects taught in the 2013 academic year onward.
- The syllabus will provide descriptions of educational goals (academic achievement goals) and specific evaluation methods for each subject; in general, absolute evaluations will be based on the correspondence of student performance with the educational goals set for each subject.
- 3. Class instructors shall store student examination answer sheets for one year from the date of the examination, and reports, etc. for one year from their due date, to serve as a basis for grading and to respond to any requests for information disclosure from students. However, this requirement does not apply to reports that are returned to the students with grades/comments; in the case of examination answer sheets, it is recommended that the instructor store the original and return a copy. (Reference: Tohoku University Criteria on Length of Storage Period for Documents: One year or less for examination answer sheets and reports.)

#### (Accepting questions)

4. Students can receive an explanation of the grade evaluation from the class instructor of the class by requesting it to the Academic Affairs Division only within a designated period of time following the announcement of grades. However, if a student is unable, for legitimate reasons, to make this request during that period, the student can receive an explanation at a later time, as long as it is within the one-year storage period.

#### (Complaint)

- 5. If the student is unsatisfied with the grade, the student can file a petition with the chairperson of the Educational Records and Programs Committee of the Academic Affairs Council (hereafter "Educational Records and Programs Committee"), through the Academic Affairs Division only within a specified period. However, if a student is unable, for legitimate reasons, to make this request during that period, the student can file a petition at a later time, as long as it is within the one-year storage period.
- Upon receiving a petition of dissatisfaction, the Educational Records and Programs Committee shall set up a subcommittee, composed of several members to investigate its validity.
   (Publication of Grading)
- 7. The Grading Improvement Committee of the Academic Affairs Council shall compile and analyze grades and release their findings to the class instructors and students.
- \* Designated period is within two weeks after the announcement of grades.
- \* A petition of dissatisfaction should be filed when the student is still unsatisfied after hearing the class instructor's explanation regarding the grade, not when the student who failed the class wishes to take a makeup exam. Students should not visit instructor's office without an appointment.

#### 5. GPA (Grade Point Average) System

In FY 2016, the GPA system was adopted by Tohoku University to increase the students' academic motivation, contribute to the provision of appropriate learning guidance, promote rigorous grade evaluation, and improve the quality of learning. The GPA system will be applied to undergraduate curriculum students who enter in FY 2016 and later.

Discretion on how to utilize GPA is left up to the individual faculties.

#### Grades and GP

Grade Points (GP) will be assigned in accordance with each faculty's regulations, faculty-specific regulations on registration, and the regulations on General Education, as per the following table.

| Evaluation   | GP     |     |
|--------------|--------|-----|
| Letter Grade | Score  | Gr  |
| AA           | 100-90 | 4.0 |
| A            | 89-80  | 3.0 |
| В            | 79-70  | 2.0 |
| С            | 69-60  | 1.0 |
| D            | 59-0   | 0.0 |

#### > GPA Categories and Calculation Method

Tohoku University has two types of GPA: one that indicates learning progress and achievements for the relevant semester (hereafter "semester GPA"), and one that indicates learning progress and achievements for the entire period of enrollment at the university (hereafter "cumulative GPA").

The semester and cumulative GPAs will be calculated with the below formulas, and the resulting numbers rounded to the 3rd decimal place.

Semester GPA = Total of (GP for each class evaluated for the semester  $\times$  the number of credits for relevant classes)  $\div$  Total credits for the classes evaluated for the semester

Cumulative GPA = Total of (GP for each class evaluated during the entire enrollment period × the number of credits for relevant classes) ÷ Total credits for the classes evaluated for the entire enrollment period.

#### Classes Affecting GPA

The below classes will be excluded from the student's semester and cumulative GPAs.

- 1) Classes for which the student has, by the prescribed date applied and received permission to cancel the registration.
- 2) Classes designated by the Chairperson of the Academic Affairs Council, or the Faculty Dean or Department Director.

#### **IV Introduction to Class Contents**

#### 1. Course Numbering Code

#### A) Course Numbering

Course Numbering is a system in which codes indicating a variety of information of each class, such as subject category and levels of difficulty, to clarify the curriculum structure.

By assigning codes and numbers to each class has a unique code to clarify its difficulty level/characteristics, significance, and the sequence in which courses should be taken, students can understand which classes they should register for, the role of each class within the undergraduate/graduate curriculum, and each course's objectives.

Also, clarifying course levels is expected to facilitate credit transfers with overseas universities.

#### B) Coding Method

Course Numbering at Tohoku University is organized as follows.

In general, the codes will be fixed for each class instead of being reassigned every academic year. However, codes may be reassigned in some cases, such as when there are major revisions to the class content.

#### a) Example of Course Numbering Code

| A BC - (hyphen) | DEF | 1 | 23  | G |
|-----------------|-----|---|-----|---|
| 12              | 3   | 4 | (5) | 6 |

#### b) Meanings of Each Segment of the Code:

- ①Hosting Faculty/School
- ②Department/Major (for General Education etc., subject category/group)
- (3) Academic Field
- (4) Level/Characteristics
- 5 Classification Number
- (6) Language Used in Class

#### c) List of Each Segment Code

#### ① List of Hosting Faculty/School Codes (single letter)

These codes are the same as the letter that indicates the student's faculty/graduate school, shown as the third letter of the student ID number; General Education Subjects (faculty code: Z) and Teacher Training Subjects (faculty code: Q) were assigned letters not already in use.

| Faculty/Graduate School                              | Faculty<br>Code |
|--|-----------------|
| Faculty of Science/Graduate School of Science        | S               |
| School of Engineering/Graduate School of Engineering | Т               |
| Faculty of Agriculture/Graduate School               | A               |

| Faculty/Graduate School    | Faculty<br>Code |
|----------------------------|-----------------|
| General Education Subjects | Z               |
| Teacher Training Subjects  | Q               |

②List of Department/Major Codes (two letters) \*Those for only General Education are shown here.

| General Education |                        | Navigating Academia               | FA |
|-------------------|------------------------|-----------------------------------|----|
|                   |                        | Humanities                        | FH |
|                   | Foundations            | Social Sciences                   | FS |
| ral               |                        | Natural Sciences                  | FN |
| E                 |                        | Transdisciplinary Subjects        | FT |
| luc               | Advanced Subjects      | Contemporary Competencies         | AC |
| ati               | Advanced Subjects      | Cutting Edge Subjects             | AE |
| On                | Languages              | Foreign Languages                 | LF |
|                   |                        | Japanese                          | LJ |
|                   |                        | Basics of Humanities              | DU |
|                   |                        | Basics of Social Sciences         | DO |
|                   |                        | Basics of Mathematics             | DM |
|                   | Basics of Discipline   | Basics of Physics                 | DP |
|                   |                        | Basics of Chemistry               | DC |
|                   |                        | Basics of Biology                 | DB |
|                   |                        | Basics of Earth and Space Science | DE |
|                   | Teacher Training Subje | ects                              | TL |

#### ③Academic Field Codes (three letters)

As shown in "III Course Numbering for General Education"

(4) List of Levels/Characteristic Codes (one number) \*only General Education is shown here

|                           | Class Type/                | Group/Subject                               |  | Code |  |
|---------------------------|----------------------------|---|--|------|--|
| Foundations               | Navigating Academia        |   | cademic Learning, Seminar on               | 1    |  |
|                           |                            | Each Discipline fo                          | r Academic Learning                        |      |  |
|                           |                            | Advanced General                            | Education Course                           | 2    |  |
|                           | Humanities, Social Scien   | <u> </u>                                    |  |      |  |
|                           | Transdisciplinary          | Integrated Experiments of Science, Health & |  |      |  |
|                           | Subjects                   | 1 1   | Sports (Sports), Health & Sports (Lecture) |      |  |
|                           |                            | Other than above                            | 8  |      |  |
| Advanced                  |                            | encies (Information Information and Data    |  |      |  |
| Subjects                  | Science and Technology     |   |  |      |  |
| Contemporary Competencies |                            | 9   |  |      |  |
|                           | (Subjects related to study | y abroad and internsh                       | ips)                                       |      |  |
|                           | Other than above           |   |  | 8    |  |
| Languages                 | Foreign Languages          | English I-A, I-B, II-                       | · · · · · · · · · · · · · · · · · · ·      | 1    |  |
|                           | (English)                  | English III, III (e-lea                     |  | 2    |  |
|                           | Foreign Languages          | Basic *** (Languag                          |  | 1    |  |
|                           | (Languages for             | Intermediate *** (L                         | anguage) I, II, III, IV,                   | 2    |  |
|                           | Multilinguality)           | Practical *** (Lang                         | uage) I, II                                |      |  |
|                           | Other than above           |   |  | 1    |  |
| Basics of Discipline      |                            |   |  | 1    |  |
| Teacher Training          | Practical Seminar on Tea   | Practical Seminar on Teaching Profession    |  |      |  |
| Subjects                  | Other                      |   |  | 1    |  |

- ⑤ Classification Number (two numbers)
  Classification Numbers are assigned for Course Numbering administration purposes; they are not sequential.
- ⑥ Codes for Language Used in Class (one letter) Languages used in classes will be coded as follows.

Language UsedCodeJapaneseJEnglishENon-English foreign languagesFTwo or more languagesB

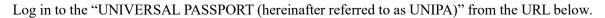
These codes will be assigned per class, in accordance with the syllabus for the relevant academic year. (Ex.)

General Education Subject "Foundation of Calculus" CB12345(Japanese) ZDN-MAT104J General Education Subject "Foundation of Calculus" CB67890 (English) ZDN-MAT104E

#### 2. Searching Syllabus Online

Course syllabi can be viewed in the Student Affairs Information System "UNIPA". It requires your Tohoku University ID and password to log into the system. While syllabi may additionally be viewed in other locations such as the university websites and the QuickSyllabus, the posting in the Student Affairs Information System is the most up-to-date information.

#### • The Student Affairs Information System:

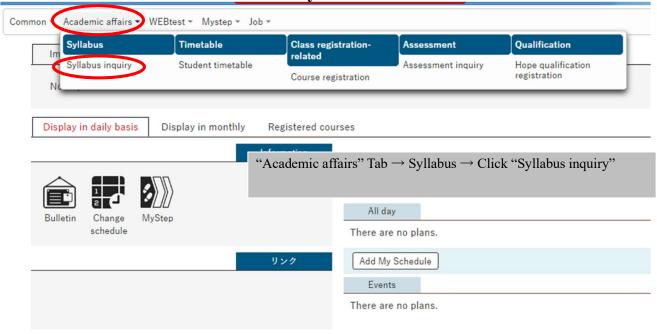




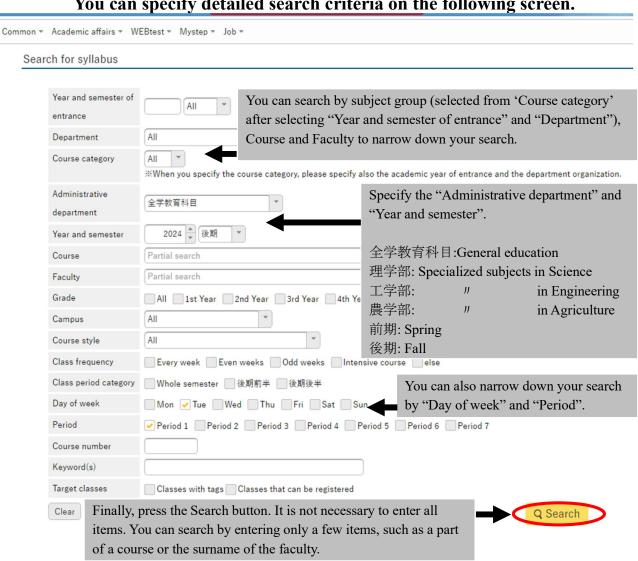
https://slink.secioss.com/user/index.php?tenant=authtohoku.ac.jp/

Top Page Requires Tohoku University ID and password to log in. Contact the FGL Office if you have any questions. For more information on image-matrix authentication, please refer to TOHOKU UNIVERSITY the online guide. https://sites.google.com/tohoku.ac.jp/oids-out/sso ログイン / Login 東北大ID / Tohokudai ID パスワード / Password Off-campus access One-time password or FIDO authentication (face, fingerprint, etc.) ログイン / Login ユーザーヘルプ / UserHelp On-campus access →Select 'UNIPA' from the portal Change the language to English. 共通 \* 教務 \* WEB申請 \* マイステップ \* 就職 \* 個人設定 メール設定 ブッシュ通知設定 テーマ設定 お気に入り機能設定 ポータル表示設定 ・テーマ、フォントサイズ、メニュー表示言語を設定します。 1. Click "setting" at the top right of the screen カラーテーマ ベーシック \* フォントサイズ 通常 小 2. Select "テーマ設定 (Set theme)" 3. Change "Display in English" from いいえ(No) to はい(Yes). ※選択したカラーテーマの表示イメージです。 Q 検索 ○登録 ●印刷 ○更新 自 4. Click "保存(Save)" button 0000 0000 0000 0000 00000 0000000 00000000 0000 000000 0000 0000 0000 100件 (1/5) 14 (4 1 2 3 4 5 ト) ト 10 🕶 英語で表示する (Display in English) いいえ

#### Online syllabus search



#### You can specify detailed search criteria on the following screen.



Search results will be displayed.



Syllabus display screen Syllabus inquiry Print Out Subject Physics A Tue.3Period 川北キャンパス C 1 0 3 Day/Period **Place** Categories 全学教育科目学術基礎科目-基礎物理学 Credit(s) 2.0Credits Object 国際学士コース (未履修)(\*) 小池 武志 所属:高度教養教育・学生支援機構 Instructor (Position) 2セメスター Term \*Screen configurations are subject to change. ZDP-PHY101E Course Numbering Language Used in Course Course of Media Class Main Subjects 各学部の履修内規または学生便覧を参照。 Introductory Physics Class Subject This course is intended for students without any or little background in physics and calculus. Through Object and Summary of Newtonian mechanics, important concepts in physics such as force, momentum, energy, angular momentum, Class and laws of conservation will be introduced. In addition, how these concepts are described in the language of mathematical equations, in particular, using calculus will be explored. By the end of the course, you are expected to gain familiarity with Newton's laws of motion, momentum, and energy, and angular momentum as well as their conservation properties. In addition, you are expected to be Goal of Study able to draw a free-body diagram, derive an equation of motion, and solve it using simple vector algebra and

#### QuickSyllabus

QuickSyllabus is a website that allows you to quickly search syllabi without logging in. The website is only available in Japanese, but the syllabus itself is available in English if the course is conducted in English. Note that the contact information of instructors is NOT posted in QuickSyllabus.

QuickSyllabus: https://qsl.cds.tohoku.ac.jp

# V General Education Class Information (FGL Program) 1. List of Subjects (2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> Semester Classes)

| Category             | Group 1                      | Group 2   | Subject  | Credits   | Semester | Courses              |
|----------------------|------------------------------|---|--|---|----------|----------------------|
|                      | Navigating<br>Academia       | -   | Introduction to Academic<br>Learning   | 2   | 2        | AMC<br>IMAC-U<br>AMB |
|                      | Humanities                   | -   | History  | 2   | 2        | AMC<br>IMAC-U<br>AMB |
|                      | Social Sciences              | -   | Economy and Society  | 2   | 2        | AMC<br>IMAC-U<br>AMB |
|                      | Natural Sciences             | Mathematics   | Foundations of Linear<br>Algebra   | 2   | 3        | AMB                  |
|                      |                              |   | Foundations of Calculus  | 2   | 2        | AMB                  |
| Foundations          |                              | Life  | Life and Nature  | 2   | 2        | AMC<br>IMAC-U<br>AMB |
|                      | Transdisciplinary            | Integrated<br>Experiments<br>of Science               | Introductory Science Experiments   | 2   | 3        | AMC<br>IMAC-U<br>AMB |
|                      | Subjects                     | Health &  |  |   | 3        | IMAC-U               |
|                      |                              | Sports (Sports)                                       | Sports A   | 1   | 4        | AMC<br>AMB           |
|                      |                              | Health & Sports (Lecture)                             | Health   | 2   | 4        | AMC<br>IMAC-U<br>AMB |
|                      | Contemporary<br>Competencies | Information<br>Science and<br>Technology<br>Education | Information and Data<br>Literacy   | 2   | 2        | AMC<br>IMAC-U<br>AMB |
| Advanced<br>Subjects |                              | International<br>Education                            | Study-abroad Program A<br>(Fundamentals of<br>Interdisciplinary STEM<br>Seminar) | 1   | 2        | AMC<br>IMAC-U<br>AMB |
|                      |                              |   | Career<br>Education  | Special Lecture of Career<br>Education<br>(Digital Entrepreneurship<br>Seminar) | 2        | 4                    |
|                      |                              | Japanese Japanese                                     | Basic Japanese I   | 4   | 2        | AMC<br>IMAC-U<br>AMB |
| Languages            | Japanese                     |   | Basic Japanese II  | 3   | 3        | AMC<br>IMAC-U<br>AMB |
|                      |                              |   | Intermediate Japanese  | 3   | 4        | AMC<br>IMAC-U<br>AMB |

| Category             | Group 1                                 | Group 2 | Subject                         | Credits | Semester | Courses              |
|----------------------|---|---------|---------------------------------|---------|----------|----------------------|
|                      |   |         | Linear Algebra A                | 2       | 2        | AMC<br>IMAC-U        |
|                      |   |         | Linear Algebra B                | 2       | 3        | AMC<br>IMAC-U        |
|                      | Basics                                  |         | Calculus A                      | 2       | 2        | AMC<br>IMAC-U        |
|                      | of Mathematics                          | -       | Calculus B                      | 2       | 3        | AMC<br>IMAC-U        |
|                      |   |         | Ordinary Differential Equations | 2       | 4        | AMC<br>IMAC-U        |
|                      |   |         | Probability & Statistics        | 2       | 4        | AMC<br>IMAC-U<br>AMB |
|                      |   |         | Physics A                       | 2       | 2        | AMC<br>IMAC-U<br>AMB |
|                      | Basics<br>of Physics                    | -       | Physics B                       | 2       | 3        | AMC<br>IMAC-U<br>AMB |
| Basics of Discipline |   |         | Physics C                       | 2       | 3        | AMC<br>IMAC-U<br>AMB |
|                      | Basics<br>of Chemistry                  | -       | Chemistry A                     | 2       | 2        | AMC<br>IMAC-U<br>AMB |
|                      |   |         | Chemistry B                     | 2       | 2        | AMC<br>IMAC-U<br>AMB |
|                      |   |         | Chemistry C                     | 2       | 3        | AMC<br>IMAC-U<br>AMB |
|                      |   | -       | Biology A                       | 2       | 2        | AMC<br>IMAC-U<br>AMB |
|                      | Basics<br>of Biology                    |         | Biology B                       | 2       | 3        | AMC<br>AMB           |
|                      |   |         | Biology C                       | 2       | 3        | AMC<br>AMB           |
| WE and in the        | Basics<br>of Earth and<br>Space Science | -       | Earth Material Science          | 2       | 2        | AMC<br>IMAC-U<br>AMB |

XFor subjects other than those listed above, please refer to the orientation for each course.

#### 2. Timetable

ATTN: When you register for courses, be sure to select the English courses for FGL students that match the instructor names below.

(1) AMC Course

General Education Subjects

Specialized Subjects

| 3rd Semester | (April 2025  | Santambar | 2025)         |
|--------------|--------------|-----------|---------------|
| 5° Semester  | (ADrii ZUZ5– | September | <b>ZUZ</b> 31 |

|      | 8:50 - 10:20  | 10:30 - 12:00   | 13:00 - 14:30   | 14:40 - 16:10   | 16:20 - 17:50  |
|------|---|---|---|---|--|
| Mon. | Biology C Kazuo INABA South Multidisciplinary Research Laboratory 2 AMC Classroom (302) | 專門基礎化学 I<br>Special Class in<br>Basic Chemistry I<br>Yuichi NEGISHI | 生物化学概論 General Biochemistry Satoshi TAKAHASHI Eriko NANGO Fumi NAGATSUGI                          | 専門基礎化学Ⅲ<br><b>Special Class in</b><br><b>Basic Chemistry III</b><br>Takehiko WADA |  |
| Tue. | Basic Japanese II Yukiko SHUKURI Masako HAYASHI A204                                    | CB22304  Biology B  Toshiharu ICHINOSE etc  C203                    | CB23317 Calculus B Xavier DAHAN C203  |   |  |
| Wed. | Chemistry C Mott Derrick R115   | Basic Japanese II Yukiko SHUKURI Masako HAYASHI A204                | Physics C Takeshi KOIKE R115  |   |  |
| Thu. |   | Physics B Dmytro FEDORYNENKO R115                                   | Introductory Science Experiments Itaru NAKAMURA, Satoshi TOMITA et al. [A06] Student Laboratories |   | CB21305 <b>Basic Japanese II</b> Yukiko SHUKURI Masako HAYASHI <b>A204</b> |
| Fri. |   | CB52301 Linear Algebra B Mohammad Samy Baladram C203                | 専門基礎化学 II·IV<br><b>Special Class in Basic Chemistry II, IV</b><br>Brian Keith, BREEDLOVE          |   |  |

## 4<sup>th</sup> Semester (October 2025 – March 2026)

|                   | 8:50 - 10:20  | 10:30 - 12:00  | 13:00 - 14:30  | 14:40 - 16:10   | 16:20 - 17:50  |  |  |
|-------------------|---|--|--|---|--|--|--|
| Mon.              |   | 物理化学概論B<br>General Physical<br>Chemistry B<br>Hiroshi KUMIGASHIRA            | 物理化学演習A<br>Exercises in Physical<br>Chemistry A<br>Tadahiro KOMEDA                     | 無機分析化学概論B<br>General Inorganic<br>and Analytical<br>Chemistry B<br>Brian Keith, BREEDLOVE |  |  |  |
| Tue.              | Probability & Statistics Xavier DAHAN R115  | Intermediate Japanese Yukari AZUMI Yuna MIKODA C204                          | CB23402 Ordinary Differential Equations Xavier DAHAN C404                              | 日本の産業と科学技術 Science, Technology and Industry in Japan Yoshitaka KASUKABE etc A301          | CB25208 Special Lecture of Career Education (Digital Entrepreneurship Seminar) Takeshi KOIKE, etc R115 |  |  |
| Wed.              | CB22402 Intermediate Japanese Yukari AZUMI Yuna MIKODA C204   | CB22402 Intermediate Japanese Yukari AZUMI Yuna MIKODA C204                  |  |   |  |  |  |
| Thu.              |   | 生物化学 IA Biochemistry IA South Multidisciplinary Research 2 Satoshi TAKAHASHI | 有機化学演習 A Exercises in Organic Chemistry A Fumi NAGATSUGI, Takehiko WADA, Shin MIZUKAMI |   |  |  |  |
| Fri.              | 無機分析化学概論A<br><b>General Inorganic</b><br><b>and Analytical</b><br><b>Chemistry A</b><br>Brian Keith,<br>BREEDLOVE | 有機化学概論 A<br><b>General Organic</b><br><b>Chemistry A</b><br>Shin MIZUKAMI    | スポーツA<br>Sports A*   |   |  |  |  |
| Int<br>ens<br>ive |   |  |  |   |  |  |  |

Notice: \*Students will choose one of the sports activities for Sports A.

<sup>\*</sup>Students will choose one of the Introductory Seminar.

General Education Subjects

Specialized Subjects

(2) IMAC-U Course 3<sup>rd</sup> Semester (April 2025 – September 2025)

|      | 8:50 - 10:20   | 10:30 - 12:00   | 13:00 - 14:30   | 14:40 - 16:10   | 16:20 - 17:50  |
|------|--|---|---|---|--|
| Mon. | <2Q><br>数学 II<br><b>Mathematics II</b><br>Takashi FURUSAWA | <ul> <li>&lt;1Q&gt;力学</li> <li>Mechanics</li> <li>Anna SUZUKI</li> <li>&lt;2Q&gt;数理解析学</li> <li>Numerical Analysis</li> <li>Kanjuro MAKIHARA</li> </ul> | <1Q>数学1 <b>Mathematics I</b> Masayuki TAKAHASHI   | <1Q>数理情報学演習<br>Exercises in Computer-<br>Aided Problem Solving<br>Takayuki OKATANI<br>Hiraku MATSUKUMA  |  |
| Tue. | Basic Japanese II Yukiko SHUKURI Masako HAYASHI A204       | スポーツA<br>Sports A*  | CB23317 Caluculus B Xavier DAHAN C203   |   |  |
| Wed. | Chemistry C Mott Derrick R115                              | CB21305 <b>Basic Japanese II</b> Yukiko SHUKURI  Masako HAYASHI <b>A204</b>   | Physics C Takeshi KOIKE R115  | 数学物理学演習 II<br>Exercises in Mathe-<br>matics and Physics II<br>Nguyen Van Toan   |  |
| Thu. |  | Physics B Dmytro FEDORYNENKO R115   | Introductory Science Itaru NAKAMURA, Satoshi To [A06] Student Laborate                  | OMITA et al.<br>ories   | CB21305 <b>Basic Japanese II</b> Yukiko SHUKURI Masako HAYASHI <b>A204</b> |
| Fri. | <iq>力学<br/><b>Mechanics</b><br/>Anna SUZUKI</iq>           | Linear Algebra B Mohammad Samy Baladram C203  | <1Q>数学 I  Mathematics I  Masayuki TAKAHASHI <2Q>数学 II  Mathematics II  Takashi FURUSAWA | <1Q>数理情報学演習<br>Exercises in Computer-<br>Aided Problem Solving<br>Takayuki OKATANI<br>Hikaru MATSUKUMA<br><2Q>数理解析学<br>Numerical Analysis<br>Kanjuro MAKIHARA |  |

4th Semester (October 2025 -March 2026)

| 4" 5             | emester (October  | 2025 – March 2020  | <u>)</u>   |   |  |
|------------------|---|--|--|---|--|
|                  | 8:50 - 10:20  | 10:30 - 12:00  | 13:00 - 14:30  | 14:40 - 16:10   | 16:20 - 17:50  |
| Mon.             | 《3Q>量子力学 I<br><b>Quantum Mechanics</b><br>Wataru YASHIRO<br><4Q>HTML<br>Wechanics of Materials II<br>Takeshi YAMAGUCHI<br>Go YAMAMOTO | <3Q>機械力学 I Mechanical Vibrations I Mitsuhiro HAYASHIBE, Fedorynenko DMYTRO <4Q>制御工学 I Control Engineering I Dai OWAKI                | <3Q>材料力学 I Mechanics of Materials I Tomonaga OKABE Yuji ICHIKAWA <4Q○流体力学 I Fluid Mechanics I Takehiko SATO  |   |  |
| Tue.             | Probability & Statistics Xavier DAHAN R115  | Intermediate Japanese Yukari AZUMI Yuna MIKODA C204  | CB23402 Ordinary Differential Equations Xavier DAHAN C404  | 日本の産業と科学技術 Science,Technology and Industry in Japan Yoshitaka KASUKABE etc A301                         | CB25208 Special Lecture of Career Education (Digital Entrepreneurship Seminar) Takeshi KOIKE, etc R115 |
| Wed.             | CB22402 Intermediate Japanese Yukari AZUMI Yuna MIKODA C204   | Intermediate Japanese Yukari AZUMI Yuna MIKODA C204  | 機械知能·航空研修 I<br>Seminar I   | <3Q>情報処理演習<br>  Practice of Information<br>  Makoto HIROTA<br>  <4Q>コンピューター実習 I<br>  Computer Seminar I | on Processing  |
| Thu.             | ◇3Q>量子力学 I<br>Quantum Mechanics<br>Wataru YASHIRO<br><4Q>材料力学II<br>Mechanics of Materials II<br>Takeshi YAMAGUCHI<br>Go YAMAMOTO      | ¬ЗQ>熱力学 I  Thermodynamics I  Takashi TOKUMASU  Akihiro HAYAKAWA  ¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬                                   | SQ>材料力学   Mechanics of Materials   Tomonaga OKABE   Yuji   ICHIKAWA   Simple of the state of |   |  |
| Fri.             | <3Q>熱力学 I Thermodynamics I Takashi TOKUMASU Akihiro HAYAKAWA <4Q>材料科学 I Materials Science I Kazuhisa SATO Yuji ICHIKAWA               | <3Q>機械力学<br>Mechanical Vibrations I<br>Mitsuhiro HAYASHIBE,<br>Fedorynenko DMYTRO<br><4Q>制御工学I<br>Control Engineering I<br>Dai OWAKI | 機械知能·航空研修 I<br>Seminar I   |   |  |
| Inten            |   | ed Engineering for Investarrange and decide the schedu   |  |   |  |
| Int<br>en<br>siv | CB88402 <b>Health</b> Tomohi  | ko MURATSUBAKI   |  |   |  |

Notice: \*See the IMAC-U timetable for details of Specialized Subject Classes.

<sup>\*</sup>Students will choose one of the sports activities for Sports A.

<sup>\*</sup>Students will choose one of Introductory Seminar.

3<sup>rd</sup> Semester (April 2025 – September 2025)

| <b>3</b> 5              | ochiester (April 2  | 2025 – September .                                   | 2023)   |  |  |  |
|-------------------------|---|--|---|--|--|--|
|                         | 8:50 - 10:20  | 10:30 - 12:00  | 13:00 - 14:30   | 14:40 - 16:10  | 16:20 - 17:50  |  |
| Mon.                    | Biology C Kazuo INABA C103  |  |   |  |  |  |
| Tue.                    | Basic Japanese II Yukiko SHUKURI Masako HAYASHI A204                  | CB22304  Biology B  Toshiharu ICHINOSE, etc  C203    | CB23317 Calculus B Xavier DAHAN C203                                    | Foundations of Linear Algebra Ying CHEN C203   |  |  |
| Wed.                    | Chemistry C Mott Derrick R115   | Basic Japanese II Yukiko SHUKURI Masako HAYASHI A204 | Physics C Takeshi KOIKE R115  |  |  |  |
| Thu.                    |   | Physics B Dmytro FEDORYNENKO R115                    | Introductory Science Itaru NAKAMURA, Satoshi TO! [A06] Student Laborato | MITA et al.  | Basic Japanese II Yukiko SHUKURI Masako HAYASHI A204 |  |
| Fri.                    | (1Q)<br>水圏無脊椎動物学<br><b>Aquatic Invertebr</b><br><b>Lecture Room 8</b> | rate Biology   | 現代における農と農学<br>Modern<br>Agriculture and<br>Agricultural<br>Science      | 陸圏・水圏環境コミュニケーション論 Introduction to Aquatic Production / Introduction to Natural and Agricultural Production |  |  |
| Intensi<br>ve<br>course | 国 Practice on Marine Bio-resources Science                            |  |   |  |  |  |

## 4th Semester (October 2025– March 2026)

|       | 8:50 - 10:20   | 10:30 - 12:00  | 13:00 - 14:30   | 14:40 - 16:10  | 16:20 - 17:50  |
|-------|--|--|---|--|--|
| Mon.  |  |  | <3Q><br>水産遺伝育種学 Fish Genetics and I Lecture Room 8        | Breeding science   |  |
| Tue   | Probability & Statistics Xavier DAHAN R115                                       | Intermediate Japanese Yukari AZUMI Yuna MIKODA C204              | CB23402 Ordinary Differential Equations Xavier DAHAN C404 | 日本の産業と科学技術 Science, Technology and Industry in Japan Yoshitaka KASUKABE etc A301 | CB25208 Special Lecture of Career Education (Digital Entrepreneurship Seminar) Takeshi KOIKE, etc R115 |
| Wed.  | Intermediate Japanese Yukari AZUMI Yuna MIKODA C204                              | Intermediate Japanese Yukari AZUMI Yuna MIKODA C204              |   |  |  |
| Thu.  | <ul><li>&lt;4Q&gt;<br/>海洋生物学</li><li>Marine Biology<br/>Lecture Room 8</li></ul> |  |   |  |  |
| Fri.  |  | 水産科学概論<br>Introduction to<br>Fisheries Science<br>Lecture Room 8 | スポーツ A<br>Sports A*                                       |  |  |
| Inten | CB88402 <b>Health</b> Tomohik  | to MURATSUBAKI   |   |  |  |

Notice: \*Students will choose one of the sports activities for Sports A.

<sup>\*</sup>Students will choose one of the Introductory Seminar.

## Cooperative Innovation Program in Science, Engineering, and Agriculture for Leading Sustainable and Diverse Industry and Society by Digital Globalization

The FGL program has been selected by MEXT for a new program aimed at government-sponsored students. As a result, starting in FY 2024, FGL will be able to accept 8 government-sponsored students each year for three years. The objective of this program is to create an educational system based on cooperation between three undergraduate schools that will foster leaders in the field of global sustainable and diverse industry and society while driving innovation in university education.

Those who enter FGL as government-sponsored students will also belong to this new program. Therefore, in addition to the curricula of their undergraduate schools, the government-sponsored students will have to fulfill the requirements of this program as well. The program requirements (i.e. requirements for receiving government sponsorship) consist of nine or ten credits in the below six subjects. For details of each subject, please see the syllabus. From 1. to 4. below are General Education subjects.

- 1. Introduction to Academic Learning [2 credits] General Education Subjects
- 2. Life and Nature (Study of Nature, Life and Technology) [2 credits] General Education Subjects
- 3. Study Abroad Program A [1 credit] General Education Subjects
- 4. Digital Entrepreneurship Seminar [2 credits] General Education Subjects
- 5. Science, Technology, and Industry in Japan [1 credit] Specialized Subjects
- 6. Multidisciplinary Internship [1 credit] Specialized Subjects

#### VI Other

#### 1. Medical Care Required due to Accidents in Class

Students who suffer accidents during class should contact the Student Health Care Center and make arrangements to receive medical care.

#### 2. Using Educational Facilities

| (1) ICL Rooms        | ICL Rooms at the Multimedia Education and Research Complex can be used for self-            |
|----------------------|---|
| (1) ICL ROOMS        |   |
|                      | study any time they are not being used for classes.   |
| (2) Lounge           | There is a lounge in Building B on the 1st floor. You may use it for taking online          |
|                      | classes or resting in the time between classes etc.   |
| (3) Self-study space | Self-study space is available in the lecture building. For details on how to use it, please |
|                      | refer to the General Education website.   |
|                      | https://www2.he.tohoku.ac.jp/zengaku/zengaku.html   |
| (4) SLA Lounge       | There is an SLA (Student Learning Adviser) desk, where students can go for                  |
|                      | consulting near the entrance hall on the 1st floor of the Multimedia Education and          |
|                      | Research Complex, and it can be used for study or breaks. Senior students will answer       |
|                      | questions and provide advice on various subjects. Please see the Center for SLA             |
|                      | Support website for details.  |

#### 3. Counseling Services

Students requiring counseling from someone other than their class instructors or department staff should contact the below counseling services. The details of counseling will be kept strictly confidential. (No Charge)

|                     | isening services. The detains of counsening will be kept strictly confidential. (No Charge) |  |  |  |  |  |
|---------------------|---|--|--|--|--|--|
| (1) Center for      | • Center for Counseling and Disability Services provides consulting regarding               |  |  |  |  |  |
| Counseling and      | problems that arise during student life. Appropriate solutions will be discussed with       |  |  |  |  |  |
| Disability Services | the student.  |  |  |  |  |  |
|                     | <ul> <li>Location: Kawauchi Kita Campus, Tel: 795-7833</li> </ul>                           |  |  |  |  |  |
|                     | • Hours: Mon Fri. 9:30 - 17:00  |  |  |  |  |  |
| (2) Student Health  | •The goal of the Student Health Care Center is to maintain and improve student health.      |  |  |  |  |  |
| Care Center         | Students who have questions, concerns or anxiety about their physical or                    |  |  |  |  |  |
|                     | psychological health should make use of this facility. The first aid offices at Katahira,   |  |  |  |  |  |
|                     | Schools of Medicine/Dentistry, School of Engineering, and Faculty of Agriculture            |  |  |  |  |  |
|                     | also provide medical consulting and care.   |  |  |  |  |  |
|                     | • Location: Kawauchi Kita Campus, Tel: 795-7829   |  |  |  |  |  |
|                     | • Hours: Weekdays 9:00 - 11:30, 13:00 - 16:15   |  |  |  |  |  |
| (3) University-wide | • Location: Kawauchi Kita Campus University Counseling Center, Tel: 022-795-7812            |  |  |  |  |  |
| Harassment          | • Hours: Mon Fri., 9:30 - 17:00   |  |  |  |  |  |
| Counseling Center   |   |  |  |  |  |  |
| (4) Counseling by   | Counseling regarding sexual harassment, health, mental health                               |  |  |  |  |  |
| Phone (Provided     | • Toll-free hotline: 0120-7830-59   |  |  |  |  |  |
| through off-campus  | • Hours: Mon., Wed., Fri., Sat., Sun. 10:00 - 21:00   |  |  |  |  |  |
| organization)       | Tue., Thu. 10:00 - 22:00 (not available on national holidays, Dec. 31 – Jan. 3)             |  |  |  |  |  |

#### 4. Preventing Theft

- (1) Incidences of theft in lecture halls and gymnasiums are fairly common. Do not leave bags etc. unattended in classrooms or study rooms, even for short periods of time. In the event of theft, report the incident to your Student Affairs Division or Student Services Division.
- (2) There are numerous incidences of bicycle theft on the Kawauchi Campus. When parking bicycles, be sure to lock them securely and park them in designated bicycle parking areas, and do not leave them unattended for long periods of time.

#### • Regulations on Tohoku University General Education Subjects

April 1, 1993 Reg. 91

(Purport)

Article 1: These regulations specify items necessary to General Education Subjects and subjects related to education (does not include those established by the faculties; hereafter "General Education Subjects") in compliance with Article 26-2 of the Tohoku University Faculty Regulations (enacted December 18, 1952; hereafter "the Regulations").

(General Education Subjects)

Article 2: Categories of General Education Subjects are as follows.

| Category      | Group   | •   |  |  |  |  |
|---------------|---|---|--|--|--|--|
| Foundations   | Navigating Academia, Humanities, Social Sciences                                    |   |  |  |  |  |
|               | Natural Sciences  | Mathematics, Physics, Chemistry, Biology, Earth and Space Science |  |  |  |  |
|               | Transdisciplinary   | Society, Energy, Life, Environment, Information,                  |  |  |  |  |
|               | Subjects Integrated Experiments of Science,   |   |  |  |  |  |
|               | Health & Sports (Sports), Health & Sports (Lecture)                                 |   |  |  |  |  |
| Advanced      | Contemporary Information Science and Technology Education, International Education, |   |  |  |  |  |
| Subjects      | Competencies  | Career Education, Global Issues                                   |  |  |  |  |
|               | Cutting Edge Subjects   | Current Topics, Frontier Topics                                   |  |  |  |  |
| Languages     | Foreign Languages   | English, Languages for Multilinguality, Languages for Further     |  |  |  |  |
|               |   | Multilinguality   |  |  |  |  |
|               | Japanese  |   |  |  |  |  |
| Basics        |   | , Basics of Social Sciences, Basics of Mathematics, Basics of     |  |  |  |  |
| of Discipline | Physics, Basics of Cher   | mistry, Basics of Biology, Basics of Earth and Space Science      |  |  |  |  |

(Course Subjects and Credits)

Article 3: Course subjects for General Education subjects and credits are as shown in Tables 1 and 2.

(Calculation of Credits)

Article 4: Calculation of credits for General Education course subjects are as follows.

I 1 (one) credit will be awarded per 15 hours of class time.

II 1 (one) credit will be awarded per 15 to 30 hours of seminar.

III 1 (one) credit will be awarded per 30 to 45 hours of experiments, laboratory work, and practical training. (Registration Procedures)

Article 5: Students must inform the Chairperson of the Academic Affairs Council (hereafter, "the Chairperson") of the subjects for which they intend to register by the designated date.

(Examinations)

Article 6: Accreditation for course subjects for which students register will depend on examinations; those who pass their examinations shall receive the designated number of credits.

- 2 Regardless of the previous item, performance in classes consisting of experiments, laboratory work and practical training shall be graded based on daily performance instead of examinations.
- 3 For course subjects in which examinations can be given, the above article only applies to those who have enrolled in the class via the designated procedures.

(Makeup Examinations and Retesting)

Article 7: If, due to unavoidable circumstances, a student is unable to take a course subject's examination, a makeup test for that subject shall be conducted.

3. There will be no retesting for students who failed a course subject's examination.

(Grading Scale)

Article 8: Examination performance shall be evaluated as per the below scale. However, depending on the course subject, the grade may be specified as just "Pass" or "Fail."

AA The student's performance was particularly exceptional.

- A The student's performance was excellent.
- B The student's performance was above average.
- C The student passed.
- D The student failed.
- 2. Of the above grades, AA, A, B, and C are passing grades, while D is a failing grade.
- 3. Students who fail to attend a class for which they have submitted registration as per Article 5 above, shall receive a D grade on that class's examinations.

(Special Auditing Students)

Article 9: Students of other universities, junior colleges, or technical colleges who wish to enroll in General Education subjects may be permitted to enroll as Special Auditing Students, pursuant to agreements with that other university, junior college, or technical college.

(Miscellaneous Provisions)

Article 10: Any items necessary for General Education subjects, other than those specified in these regulations, will be specified by the Academic Affairs Council.

Supplementary Regulations Omitted.

Table 1: General Education Subjects

| Category     |                     | ion Subjects<br>Froup | Subject  | Total class                | Credits | Comments |  |
|--------------|---------------------|-----------------------|--|----------------------------|---------|----------|--|
|              |                     |                       | Introduction to Academic Learning                            | hours 30                   | 2       |          |  |
|              | <br> Navigating     | Academia              | Seminar on Each Discipline for Academic Learning             | 30                         | 1       |          |  |
|              |                     |                       | Advanced General Education Course                            | 15~30                      | 1       |          |  |
|              |                     |                       | Logic  | 30                         | 2       |          |  |
|              |                     |                       | Philosophy   | 30                         | 2       |          |  |
|              |                     |                       | Ethics   | 30                         | 2       |          |  |
|              |                     |                       | Literature   | 30                         | 2       |          |  |
|              |                     |                       | Religious Studies  | 30                         |         |          |  |
|              |                     |                       | Fine Art   | 30                         | 2       |          |  |
|              | Humanities          | \$                    | Education  | 30                         | 2       |          |  |
|              |                     |                       | History  | 30                         | 2       |          |  |
|              |                     |                       | Linguistics and Japanese Language Sciences                   | 30                         | 2       |          |  |
|              |                     |                       | Psychology   | 30                         |         |          |  |
|              |                     |                       | Cultural Anthropology  | 30                         | 2       |          |  |
|              |                     |                       | Sociology  | 30                         | 2       |          |  |
|              |                     |                       | Economy and Society  | 30                         | 2       |          |  |
|              |                     |                       | Japanese Constitutional Law                                  | 30                         | 2       |          |  |
|              |                     |                       | Law  | 30                         |         |          |  |
|              | Social Sciences     |                       | Politics   | 30                         | 2       |          |  |
|              |                     |                       | Politics and Economics in the Information Society            | 30                         | 2       |          |  |
|              |                     |                       | Law, Politics and Society                                    | 30                         | 2       |          |  |
|              |                     |                       | Introduction to Linear Algebra                               | 30                         | 2       |          |  |
|              |                     | Mathematics           | Foundations of Linear Algebra                                | 30                         |         |          |  |
| Foundation s |                     |                       | Introduction to Calculus                                     | 30                         | 2       |          |  |
| 5            |                     |                       | Foundations of Calculus                                      | 30                         | 2       |          |  |
|              |                     |                       | Introduction to Statistics                                   | 30                         | 2       |          |  |
|              |                     |                       | Foundations of Probability & Statistics                      | 30                         | 2       |          |  |
|              | Natural             |                       | Introduction to Physics                                      | 30                         |         |          |  |
|              | Sciences            | Physics               | Foundations of Physics I                                     | 30                         |         |          |  |
|              |                     |                       | Foundations of Physics II                                    | 30                         |         |          |  |
|              |                     | Chemistry             | Introduction to Chemistry                                    | 30                         |         |          |  |
|              |                     | Biology               | Introduction to Biology                                      | 30                         |         |          |  |
|              |                     | Earth and             | Introduction to Astronomy                                    | 30                         |         |          |  |
|              |                     | Space                 | Introduction to Environmental Earth Science                  | 30                         |         |          |  |
|              |                     | Science               | Introduction to Geography                                    | 30                         |         |          |  |
|              |                     | Society               | Inclusive Society  | 30                         | 2       |          |  |
|              |                     | Energy                | Energy, Resources and Sustainability                         | 30                         | 2       |          |  |
|              |                     | Life                  | Life and Nature  | 30                         |         |          |  |
|              |                     | Environment           | Nature and Environment                                       | 30                         | 2       |          |  |
|              |                     |                       | Information Science and Technology in Human Life and Society | 30                         |         |          |  |
|              |                     | Information           | Introduction to Area Studies on Northeast Asia               | 30                         |         |          |  |
|              | plinary<br>Subjects | Integrated            | Introductory Science Experiments                             | 60                         | 2       |          |  |
|              | ] ,                 | Experiments           | Introductory Science Experiments for the Humanities          | 60                         |         |          |  |
|              |                     | of Science            | Sports A   | 30                         |         |          |  |
|              |                     | Sports<br>(Sports)    | Sports B   | 30                         | 1       |          |  |
|              |                     | Health &<br>Sports    | Health   | 30                         | 2       |          |  |
|              |                     |                       | (Lecture)  | Sports and Health Sciences | 30      | 2        |  |

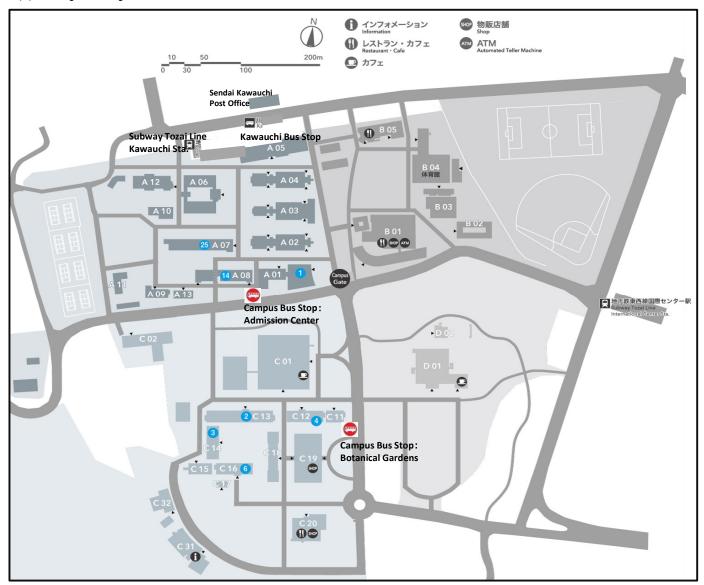
| Category             | G                | roup                    | Subject   | Total class<br>hours | Credits | Comments                          |
|----------------------|------------------|-------------------------|---|----------------------|---------|-----------------------------------|
|                      |                  |                         | Information and Data Literacy   | 30                   | 2       |                                   |
|                      |                  |                         | Introduction to Data Science and Artificial Intelligence                          | 30                   | 2       |                                   |
|                      |                  | Information Science and | Introduction to Algorithms for Machine Learning                                   | 30                   | 2       |                                   |
|                      |                  | Technology              | Hands-on Machine Learning I   | 30                   | 2       |                                   |
|                      |                  | Education               | Hands-on Machine Learning II  | 30                   | 2       |                                   |
|                      |                  |                         | Special Lecture of Information Science and Technology                             | 30                   | 2       | Course subjects to be taught will |
|                      |                  |                         | Education Understanding International Issues                                      | 30                   | 2       | be determined yearly.             |
|                      |                  |                         | PBL in Global Issues  | 30                   |         |                                   |
|                      |                  |                         | Special Topics on Global Issues   | 30                   |         |                                   |
|                      |                  |                         | Understanding Culture   | 30                   |         |                                   |
|                      |                  |                         | Exploring Culture and Society   | 30                   |         |                                   |
|                      |                  |                         | Multicultural Communication   | 30                   |         |                                   |
|                      |                  |                         | PBL in Multicultural Environment  | 30                   |         |                                   |
|                      |                  |                         | Special Topics on Multicultural Society   | 30                   |         |                                   |
|                      |                  |                         | Global Seminar  | 30                   |         |                                   |
|                      |                  |                         | Global Career   | 30                   |         |                                   |
|                      |                  |                         | Global Leadership Development through PBL   | 30                   |         |                                   |
|                      |                  | International Education | Special Topics on Global Leadership   | 30                   |         |                                   |
|                      |                  | Education               | Special Topics on Global Leadership   | 15~30                |         |                                   |
|                      |                  |                         |   | 30~60                | 2       |                                   |
|                      |                  |                         | Study-abroad Semester   | 60~90<br>90~120      |         |                                   |
|                      | Contempo         |                         |   | $120 \sim 150$       |         |                                   |
|                      | rary             |                         |   | 150~180              | 6       |                                   |
|                      | Competen cies    |                         | Study-abroad Program A  | 45                   |         |                                   |
| Advanced<br>Subjects |                  |                         | Study-abroad Program B  | 90                   | 2       |                                   |
| Suojeeis             |                  |                         | Faculty-led Program A   | 45                   | 1       |                                   |
|                      |                  |                         | Faculty-led Program B   | 90                   | 2       |                                   |
|                      |                  |                         | International Exploration A   | 45                   | 1       |                                   |
|                      |                  |                         | International Exploration B   | 90                   |         |                                   |
|                      |                  |                         | Introduction to Entrepreneurial Skills  | 30                   |         |                                   |
|                      |                  |                         | Workshop for Designing Your Future  Career Design A                               | 30                   |         |                                   |
|                      |                  |                         | Career Design B   | 30                   |         |                                   |
|                      |                  |                         | Career Design C   | 30                   |         |                                   |
|                      |                  | Career                  | Career Design D   | 30                   |         |                                   |
|                      |                  | Education               | Preparation Course for Career Practical Training and                              | 15                   |         |                                   |
|                      |                  |                         | Internship  |                      |         |                                   |
|                      |                  |                         | Career Practical Training and Internship A  | 15<br>30             |         |                                   |
|                      |                  |                         | Career Practical Training and Internship B Transferable Skills Workshop           | 30                   |         |                                   |
|                      |                  |                         |   |                      |         | Course subjects to be taught will |
|                      |                  |                         | Special Lecture of Career Education   | 30                   | _       | be determined yearly.             |
|                      |                  |                         | Sustainability and Social Co-Creation   | 30                   |         |                                   |
|                      |                  | 61.1.1                  | Global Governance and Sustainable Development in SDGs                             | 30                   |         |                                   |
|                      |                  | Global<br>Issues        | Resilient Design for the Sustainable Society  Sustainable Development For Society | 30                   |         |                                   |
|                      |                  | ·-                      | System Design Towards a Sustainable Society                                       | 30                   |         |                                   |
|                      |                  |                         | Gender Co-Creation Society  | 30                   |         |                                   |
|                      |                  | C11                     |   | 7.5                  |         |                                   |
|                      | Cutting          | Current<br>Topics       |   | 15~30                | 1       | Course subjects to be taught will |
| 1                    | Edge<br>Subjects | Frontier                |   | 30~60                |         | be determined yearly.             |
|                      | J ***            | Topics                  |   | 30                   | 2       |                                   |

| Category  | C                    | Group     | Subject  | Total class<br>hours | Credits | Comments                       |
|-----------|----------------------|-----------|--|----------------------|---------|--------------------------------|
|           |                      |           | English I-A                                      | 30                   | 1       |                                |
|           |                      |           | English I-B                                      | 30                   |         |                                |
|           |                      | English   | English II-A                                     | 30                   |         |                                |
|           |                      | 8         | English II-B                                     | 30                   | 1       |                                |
|           |                      |           | English III English III (e-learning)             | 30                   | 1       |                                |
|           |                      |           | Basic German I                                   | 60                   |         |                                |
|           |                      |           | Basic German II                                  | 60                   |         |                                |
|           |                      |           | Intermediate German I                            | 30                   | 2       |                                |
|           |                      |           | Intermediate German II                           | 30                   |         |                                |
|           |                      |           | Intermediate German III Intermediate German IV   | 30<br>30             |         |                                |
|           |                      |           | Basic French I                                   | 60                   | 2       |                                |
|           |                      |           | Basic French II                                  | 60                   |         |                                |
|           |                      |           | Intermediate French I                            | 30                   | 2       |                                |
|           |                      |           | Intermediate French II                           | 30                   |         |                                |
|           |                      |           | Intermediate French III                          | 30                   | 2       |                                |
|           |                      |           | Intermediate French IV Practical French I        | 30<br>30             |         |                                |
|           |                      |           | Practical French II                              | 30                   |         |                                |
|           |                      |           | Basic Russian I                                  | 60                   | 2       |                                |
|           |                      |           | Basic Russian II                                 | 60                   | 2       |                                |
|           |                      |           | Intermediate Russian I                           | 30                   |         |                                |
|           |                      | Foreign   | Intermediate Russian II                          | 30                   |         |                                |
|           |                      | Languages | Intermediate Russian III Intermediate Russian IV | 30                   | 2       |                                |
|           |                      | Languages | Basic Spanish I                                  | 60                   |         |                                |
|           |                      |           | Basic Spanish II                                 | 60                   |         |                                |
|           | Foreign<br>Languages |           | Intermediate Spanish I                           | 30                   | 2       |                                |
|           |                      | s         | Intermediate Spanish II                          | 30                   |         |                                |
|           |                      |           | Practical Spanish I                              | 30                   |         |                                |
|           |                      |           | Practical Spanish II Basic Chinese I             | 60                   |         |                                |
|           |                      |           | Basic Chinese II                                 | 60                   | 2       |                                |
|           |                      |           | Intermediate Chinese I                           | 30                   |         |                                |
| Languages |                      |           | Intermediate Chinese II                          | 30                   |         |                                |
|           |                      |           | Intermediate Chinese III                         | 30                   |         |                                |
|           |                      |           | Intermediate Chinese IV Basic Korean I           | 30<br>60             |         |                                |
|           |                      |           | Basic Korean II                                  | 60                   |         |                                |
|           |                      |           | Intermediate Korean I                            | 30                   |         |                                |
|           |                      |           | Intermediate Korean II                           | 30                   | 2       |                                |
|           |                      |           | Intermediate Korean III                          | 30                   |         |                                |
|           |                      |           | Intermediate Korean IV                           | 30                   |         |                                |
|           |                      |           | Greek I<br>Greek II                              | 30<br>30             | 2 2     |                                |
|           |                      |           | Sanskrit I                                       | 30                   | 2       |                                |
|           |                      |           | Sanskrit II                                      | 30                   | 2       |                                |
|           |                      |           | Latin I  | 30                   | 2       |                                |
|           |                      | 0.1       | Latin II   | 30                   | 2       |                                |
|           |                      | Other     | Mongolian I<br>Mongolian II                      | 30                   | 2       |                                |
|           |                      | Languages | Italian I  | 30                   |         |                                |
|           |                      |           | Italian II                                       | 30                   |         |                                |
|           |                      |           | Czech I  | 30                   | 2       |                                |
|           |                      |           | Czech II   | 30                   |         |                                |
|           |                      |           | Arabic I   | 30<br>30             |         |                                |
|           |                      |           | Arabic II<br>Japanese A                          | 30                   | 1       |                                |
|           |                      |           | Japanese B                                       | 30                   | 1       |                                |
|           |                      |           | Japanese C                                       | 30                   |         |                                |
|           |                      |           | Japanese D                                       | 30                   | 1       |                                |
|           |                      |           | Japanese E                                       | 30                   |         | These subjects are for         |
|           | Japanese             |           | Japanese F<br>Japanese G                         | 30<br>30             |         | international students.        |
|           | Japanese             |           | Japanese H                                       | 30                   | 1       |                                |
|           |                      |           | Japanese I                                       | 30                   | 1       |                                |
|           |                      |           | Japanese J                                       | 30                   | 1       |                                |
|           |                      |           | Basic Japanese I                                 | 120                  |         | These subjects are for the FGL |
|           |                      |           | Basic Japanese II                                | 90                   | 3       | Undergraduate Courses.         |
| L         | <u> </u>             |           | Intermediate Japanese                            | 90                   | 3       |                                |

| Category   | Group                             | Subject                         | Total class<br>hours | Credits | Comments  |
|------------|-----------------------------------|---------------------------------|----------------------|---------|---|
|            | Basics of Humanities              |                                 | 30                   | 2       | The dean of each faculty shall<br>determine annually which courses<br>may be taken by students of other |
|            | Basics of Social<br>Sciences      |                                 | 30                   | 2       | faculties as General Education Subjects.  |
|            |                                   | Linear Algebra A                | 30                   | 2       |   |
|            |                                   | Linear Algebra B                | 30                   | 2       |   |
|            |                                   | Calculus A                      | 30                   | 2       |   |
|            | Basics of Mathematics             | Calculus B                      | 30                   | 2       |   |
|            |                                   | Ordinary Differential Equations | 30                   | 2       |   |
|            |                                   | Complex Function Theory         | 30                   | 2       |   |
|            |                                   | Probability & Statistics        | 30                   | 2       |   |
|            | Basics of Physics                 | Physics A                       | 30                   | 2       |   |
| Basics of  |                                   | Physics B                       | 30                   | 2       |   |
| Discipline |                                   | Physics C                       | 30                   | 2       |   |
|            |                                   | Basic Mathematics for Physics   | 30                   | 2       |   |
|            |                                   | Chemistry A                     | 30                   | 2       |   |
|            | Basics of Chemistry               | Chemistry B                     | 30                   | 2       |   |
|            |                                   | Chemistry C                     | 30                   | 2       |   |
|            |                                   | Biology A                       | 30                   | 2       |   |
|            | Basics of Biology                 | Biology B                       | 30                   | 2       |   |
|            |                                   | Biology C                       | 30                   | 2       |   |
|            |                                   | Earth System Science            | 30                   | 2       |   |
|            |                                   | Earth Material Science          | 30                   | 2       |   |
|            | Basics of Earth and Space Science | Geography                       | 30                   | 2       |   |
|            | Space Science                     | Astronomy                       | 30                   | 2       |   |
|            |                                   | Geophysics                      | 30                   | 2       |   |

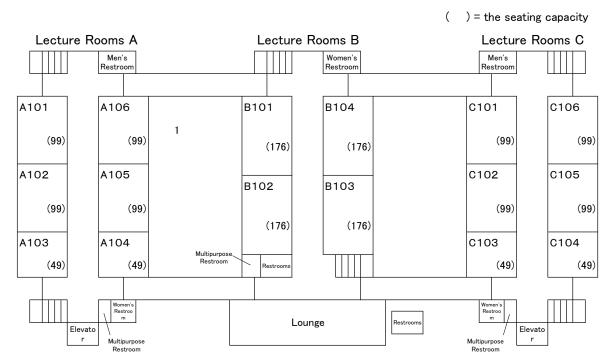
## • Kawauchi Campus Map

#### (1) Campus Map

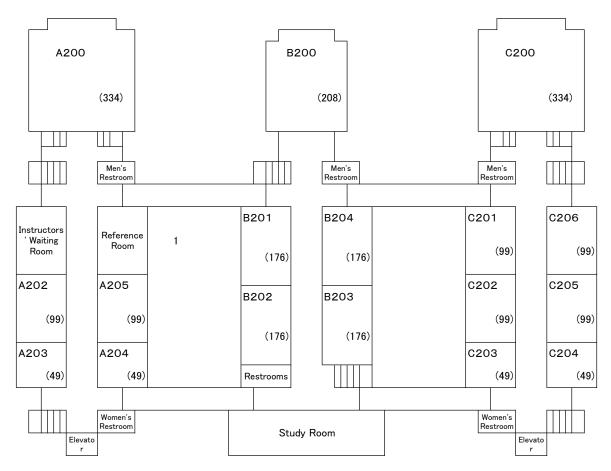


| Α | 01 | Education and Student Support Center                                    |
|---|----|---|
| Α | 02 | Lecture Rooms A   |
| Α | 03 | Lecture Rooms B   |
| Α | 04 | Lecture Rooms C   |
| Α | 05 | Multimedia Education and Research Complex                               |
| Α | 06 | Student Laboratories  |
| Α | 07 | Center for Northeast Asian Studies, Office, Kawakita Research Forum     |
| Α | 80 | Graduate School of International Cultural Studies, Office               |
| Α | 09 | Student Health Care Center  |
| Α | 10 | Disability Services Office  |
| Α | 12 | International Exchange Building   |
| Α | 13 | Counseling Office   |
| В | 01 | Kawauchi Welfare Facilities   |
| В | 02 | Kawauchi Circle and Club Building                                       |
| В | 03 | Kawauchi Extracurricular Activity Shared Facilities (Kawauchi Hall)     |
| В | 04 | Kawauchi Gymnasium (Kawauchi Arena)                                     |
| В | 05 | Kawauchi Sub Arena  |
| С | 01 | Tohoku University Library   |
| С | 02 | Admission Center  |
| С | 12 | Graduate School / School of Law, Office                                 |
| С | 13 | Graduate School / Faculty of Arts and Letters, Office                   |
| С | 14 | Graduate School / Faculty of Education, Office, New Humanities Building |
| С | 16 | Graduate School / Faculty of Economics and Management, Office           |
| С | 18 | Lecture Rooms   |
| С | 19 | Multidisciplinary Research Building, International Oasis                |
| С | 20 | Welfare Facilities (Maple Park Kawauchi)                                |
| С | 31 | Botanical Gardens (Garden Hall)   |
| D | 01 | Centennial Hall (Kawauchi Hagi Hall)                                    |

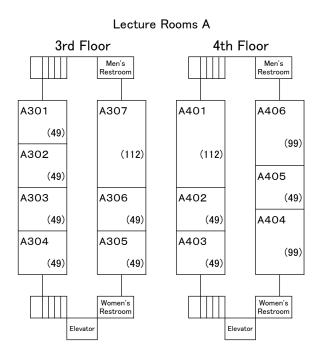
#### (2) Classroom

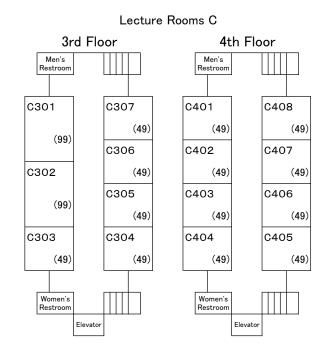


1st Floor

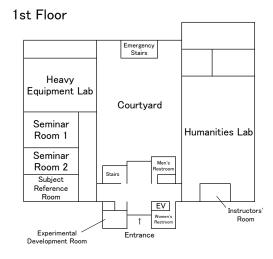


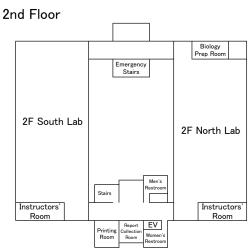
2nd Floor

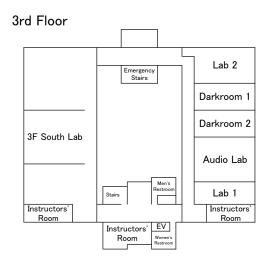




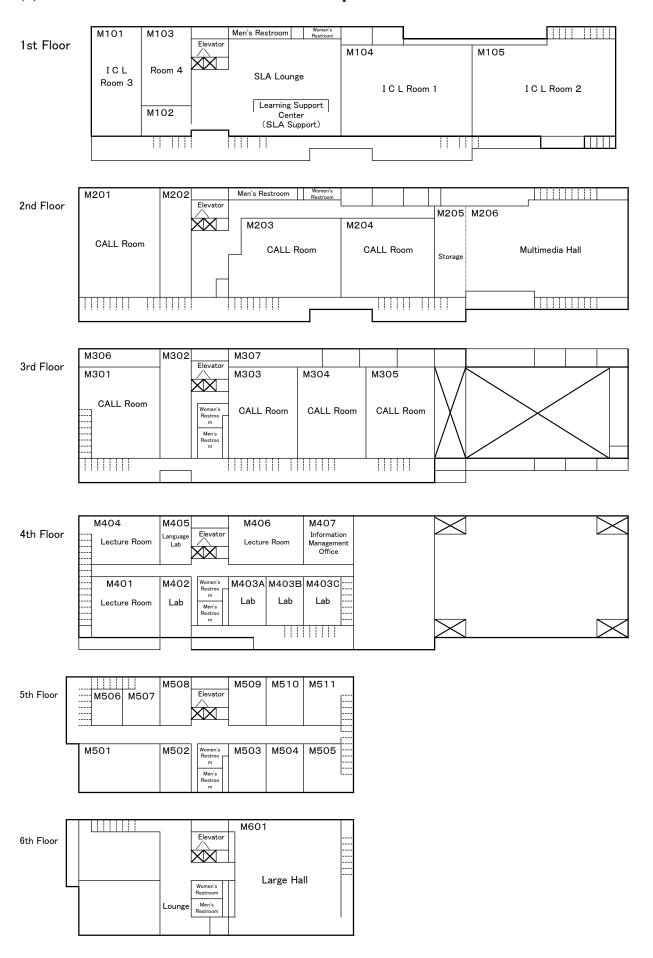
#### (3) Student Laboratories



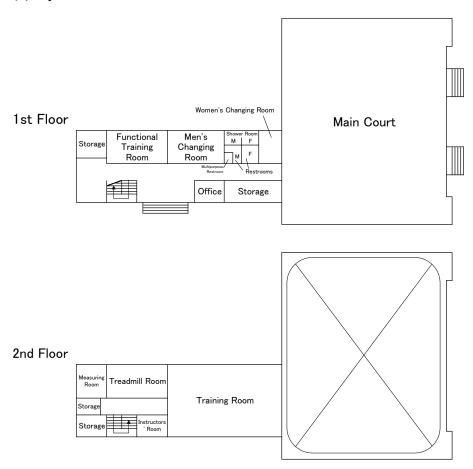




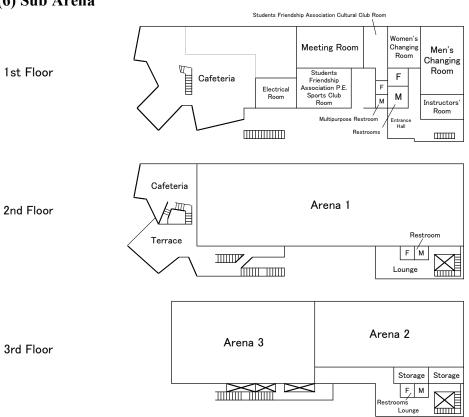
## (4) Multimedia Education and Research Complex



## (5) Gymnasium



## (6) Sub Arena



## (7) Education and Student Support Center, Student Services [A01]

| Stude            | ent Support Division (1st floor)   |
|------------------|--|
|                  | Support Planning Section   |
|                  | -Lost & Found  |
| 1                | -Change of personal information (address, contact information etc.)                                  |
| 1                | -Thefts/crimes/accidents   |
|                  | -Enrollment/invoicing for personal accident (Gakkensai) & liability (Inbound futai-gakuso) insurance |
|                  | -National Pension Plan   |
|                  | Activity Support Section   |
| 2                | -Circles/clubs   |
|                  | -Equipment loan  |
| 3                | Student Life Support Section   |
| 3                | -University House, dormitories   |
|                  | Financial Support Section  |
| 4                | -Waiver or deferment of entrance fee/tuition   |
| 7                | -Scholarships (for Japanese students)  |
|                  | -Student Commuter Certificate  |
| Educ             | ational Affairs Division (2 <sup>nd</sup> floor)   |
|                  | Educational Records and Programs Section   |
|                  | Educational Programs Section   |
| 5                | General Education Planning Section   |
|                  | Liberal Education Operating Section  |
|                  | -General Education classes   |
| Stude            | ent Exchange Division (2 <sup>nd</sup> floor)  |
| 6-A              | General Affairs Section  |
| 0 71             | -Tohoku University International House/University House  |
|                  | International Education Section  |
| <mark>6-B</mark> | -Future Global Leadership Undergraduate Courses (= FGL Office)                                       |
| <u> </u>         | -Special curriculum (Japanese language) for international students                                   |
|                  | -Scholarships (Japanese Government Scholarship, Honors Scholarship etc.)                             |
|                  | Incoming Student Exchange Section  |
| 6-C              | -Incoming student exchange programs  |
|                  | -Double Degree (Joint Education) Program (incoming)  |
|                  | Global Programs Section  |
| ( D              | -TGL Program   |
| 6-D              | -Outgoing overseas programs (Study Abroad Program (SAP)/exchanges/COLABS)                            |
|                  | -English language learning   |
|                  | -Scholarships for outgoing studies abroad  |
| 7                | International Support Office   |
| <b>C</b> 1       | -Resident Status, private apartments   |
| Cento            | er for Career Support (3 <sup>rd</sup> floor)  |
| 0                | Careers Advisory Section   |
| 8                | -Counseling and information on student career paths and job-finding                                  |
|                  | -Internships and part-time employment  |

 $<sup>3^{</sup>rd}$  floor of the West Wing: Global Learning Center

## (8) International Exchange Building [A12]

The offices of professors' who teach General Education Subjects are located on the second floor of the International Exchange Building.

