

COURSE REGISTRATION AND OTHER PROCEDURES

2023-2024 Academic Year

Class Registration

S1/S2 Terms	April 5	~	April 19
A1/A2 Terms	October 3	~	October 16

Modification of Class Registration

S1 Term	April 27	~	May 8
S2 Term	June 5	~	June 16
A1 Term	October 24	~	October 30
A2 Term	November 29	~	December 12

- ◇ All registration starts at 9:00 on the first day, and ends at 17:00 on the last day.
- ◇ Registration is allowed only during this period through UTAS, unless otherwise stated.
- ◇ Unregistered classes cannot be taken.
- ◇ Note that failure to register for compulsory classes will result in course incompleton.

Graduate School of Frontier Sciences (GSFS)

The University of Tokyo

Academic Calendar 2023- 2024

	Dates
Orientation for New Students (for April entrants)	early April, 2023 (<u>by department</u>)
S1 Term	<ul style="list-style-type: none"> • April 5 to June 2 (includes exams) • Final exams: May 22 to May 31 • Class Registration: April 5 to April 19 • Modification of Class Registration (S1 Term) : April 27 to May 8 • Supplementary sessions: May 29, May 30, June 1 and June 2
Entrance Ceremony	• April 12
S2 Term	<ul style="list-style-type: none"> • June 5 to July 28 (includes exams) • Final exams: July 18 to July 24 • Class Registration: April 5 to April 19 <ul style="list-style-type: none"> • Modification of Class Registration (S2 Term) : June 5 to June 16 • Supplementary sessions: July 25, July 26, July 27 and July 28
Summer Vacation	• July 29 to September 30
Commencement Ceremony – UTokyo/Hongo Commencement Ceremony – each department (for September graduates)	<ul style="list-style-type: none"> • September 22 (subject to change) <p><u>Note:</u> Graduates will receive their diplomas at the Commencement Ceremony organized at each department.</p>
Orientation for New Students (for October entrants)	Early October (<u>by department</u>)
Entrance Ceremony (for October entrants)	• October 2 (subject to change)
A1 Term	<ul style="list-style-type: none"> • October 5 to November 28 (includes exams) • Final exams: November 16 to November 27 • Class Registration: October 3 to October 16 • Modification of Class Registration (A1 Term) : October 24 to October 30 • Supplementary session: November 28
A2 Term	<ul style="list-style-type: none"> • November 29 to January 30, 2024 (includes exams) • Final exams: January 23 to January 29, 2024 • Class Registration: October 3 to October 16 • Modification of Class Registration (A2 Term) : November 29 to December 12 • Supplementary session: January 30, 2024
Winter Vacation	• December 27, 2023 to January 4, 2024
Commencement Ceremony – UTokyo/Hongo Commencement Ceremony – each department (for March graduates)	<ul style="list-style-type: none"> • March 21, 2024 (subject to change) <p><u>Note:</u> Graduates will receive their diplomas at the Commencement Ceremony organized at each department.</p>

Class Time Schedule

1 st period	8:30 ~ 10:15	4 th period	14:55 ~ 16:40
2 nd period	10:25 ~ 12:10	5 th period	16:50 ~ 18:35
3 rd period	13:00 ~ 14:45	6 th period	18:45 ~ 20:30

Note 1: In addition to the above 105-minute classes, 90-minute classes may be held for each department, major, or class. In addition, some classes are also offered at other time schedules. Refer to the UTAS syllabus.

Note 2: Events will be held on April 12, 2023 and January 12, 2024 and there will be no classes.

Note 3: There will be a supplementary session in each term. These sessions may follow a class schedule of a different day of the week.

Note 4: The period from January 31 to March 4, 2024, is to be used for intensives and is not, in principle, a regular term per se. Some departments or programs, however, may use this time for supplementary sessions.

Information on irregular classes and its time schedules are available on the GSFS website and in the syllabuses in UTAS.

The GSFS Website 'Classes and Courses'

<https://www.k.u-tokyo.ac.jp/en/campuslife/kougi/>

UTAS 'Log-in Screen'

<https://utas.adm.u-tokyo.ac.jp/campusweb>

Degree/Graduation Requirements

Master's degree

- ◇ Master students must be enrolled in The University of Tokyo (UTokyo) for a minimum for two years, obtain the minimum of thirty (30) units including compulsory courses, obtain approval of your master's thesis, and pass all final examinations.¹ Generally, a master's program should be completed within three years, four years in approved exceptional cases.²
- ◇ The normal time to satisfy graduation requirements is two years. However, students with a superior academic record may graduate after being enrolled for a minimum of one year.³

Doctoral degree

- ◇ Doctoral students must be enrolled in The University of Tokyo for a minimum for three years, obtain a minimum of 20 units including compulsory courses, obtain approval of your doctoral dissertation, and pass all final examinations.⁴ Generally, a doctoral program should be completed within five years, six years in approved exceptional cases.²
- ◇ The normal time to satisfy graduation requirements is 3 years. However, students with a superior academic record may graduate after being enrolled for the time period⁵.

¹ Article 2 Item 5, Article 5; The University of Tokyo Graduate School Academic Regulations

² Article 27; The University of Tokyo Graduate School Academic Regulations

³ Article 3; Graduate School of Frontier Sciences Academic Regulations

⁴ Article 2 Item 5, Article 6; The University of Tokyo Graduate School Academic Regulations

⁵ Article 4; Graduate School of Frontier Sciences Academic Regulations

Course Registration Period and Procedures

Online Registration

Before submitting class schedules through the online UTAS Course Registration System, be sure to obtain your advisor's approval⁶ regarding your proposed selection of courses. To submit class schedules through online Course Registration System, use the UTAS website:

<https://utas.adm.u-tokyo.ac.jp/campusweb/>

Class Registration

S1/S2 terms	April 5, 2023 9:00am	~	April 19, 2023 5:00pm
A1/A2 terms	October 3, 2023 9:00am	~	October 16, 2023 5:00pm

Modification of Class Registration

S1 term	April 27, 2023 9:00am	~	May 8, 2023 5:00pm
S2 term	June 5, 2023 9:00am	~	June 16, 2023 5:00pm
A1 term	October 24, 2023 9:00am	~	October 30, 2023 5:00pm
A2 term	November 29, 2023 9:00am	~	December 12, 2023 5:00pm

⁶ Article 6-8; Graduate School of Frontier Sciences Academic Regulations

Important Reminders

1. Registration for *courses longer than one academic year* need only be done once: during the first term registration period, and need not be repeated after that. Re-registration for the same course in the following term is not required.
2. Be sure to register for all compulsory lectures, practical courses, laboratories, etc. designated by your department/program after consulting your advisor.
3. Students may not take two or more courses concurrently scheduled for the same time period.
4. In principle, registration requests are accepted *only* during the prescribed registration periods. (As a rule, grades will not be recorded for any coursework for which a student is not registered.)
5. Students may not re-register for previously completed courses for which they earned a grade of “C” or higher.
 - ✧ In the event that a student retakes a successfully completed course, any units for the additional coursework will *not* be counted toward the student’s degree requirements, regardless of whether the course was retaken during a different year, was conducted by a different instructor, was offered for a different number of units, was changed to a different course title, or involved changes in the syllabus.
6. All GSFS departments and programs have their own policies concerning units for required subjects, units acceptable from The University of Tokyo undergraduate schools, other GSFS departments, or other UTokyo graduate schools. General policies are outlined in the following section. Please note that GSFS students are ineligible to take undergraduate courses designed for first- and second-year undergraduate students.

Course Units

Courses

MASTER’S COURSE: minimum of 30 units

M1 = 1st yr. Master’s Course

M2 = 2nd yr. Master’s Course

DOCTORAL COURSE minimum of 20 units

D1 = 1st yr. Doctoral Course

D2 = 2nd yr. Doctoral Course

D3 = 3rd yr. Doctoral Course

Class Name

The official names of most classes are Japanese. English names in these guidelines represent a best-effort translation (see GSFS course catalog).

Language of Instruction

Japanese language is used in most classes. Classes in which the language of instruction is English are designated by an “E” in the “Comments” column in the GSFS course catalog (far right column). The GSFS website also has a list of classes in English: check the link labeled “List of Lectures Taught in English” in the following GSFS website:

<http://www.k.u-tokyo.ac.jp/renewal-e/sidebar/kougi-e.html>

Units from Outside Your Department

Departments often restrict the number of units from outside the department program that may be applied as part of the required units to satisfy the graduation requirements of your program. *Be sure to consult with your advisor before registering for any classes.

*The information herein is accurate at the time of publication. However, course codes, course names, or even the courses required may change during an academic year. Consult your advisor or department office concerning the actual graduation requirements and related academic guidelines for your program of study and any other program-specific questions that you may have. Any questions regarding GSFS general academic and administrative matters should be directed to the Students Affairs Team. For your own benefit, be sure to obtain your advisor's approval before registering for courses, and also carefully confirm all relevant information at the time of registering.

Course units shall be obtained by completing subjects according to the rules described below and the GSFS course catalog of 2023 academic year. Note that additional instructions on course units may be issued at the orientation sessions of each GSFS department. Each GSFS department limits the number of course units from subjects offered by other undergraduate schools or by other departments, graduate schools or education units (collectively referred to as *non-GSFS subjects*) that may be admitted towards completion of a particular course (i.e. required units). While these limits are not intended to restrict the number of non-GSFS subjects that a student can take, non-GSFS subject units exceeding these limits shall not be counted towards required units.

University-wide Open Subjects

Master's and doctoral program students in the Department of Integrated Biosciences and Department of Computational Biology and Medical Sciences may take the following university-wide open subjects as part of the required units to satisfy the graduation requirements of your program.

47000-11	Life Science Archive Seminar for Graduate Course I	1 unit
47000-12	Life Science Archive Seminar for Graduate Course II	1 unit
47000-13	Life Science Archive Seminar for Graduate Course III	1 unit
47000-14	Life Science Archive Common Lecture I	1 unit
47000-15	Life Science Archive Common Lecture II	1 unit
47000-16	Life Science Archive Common Lecture III	1 unit

*Be sure to consult with your advisor before registering for any classes.

GSFS Common Subjects

Master's and doctoral course students in the Department of Advanced Materials Science, Department of Advanced Energy, Department of Integrated Biosciences, Department of Computational Biology and Medical Sciences, Department of Ocean Technology, Policy and Environment, Department of Human and Engineered Environmental Studies, and Graduate Program in Sustainability Science- Global Leadership Initiative may take the following Common Subjects as part of the required units to satisfy the graduation requirements of your program.

47000-01	Special Lecture on Frontier Science I	2 units
47000-02	Special Lecture on Frontier Science II	2 units
47000-03	Special Lecture on Frontier Science III	2 units
47000-04	Special Lecture on Frontier Science IV	2 units

Dept. of Advanced Materials Science:	These units satisfy graduation requirements
Dept. of Advanced Energy:	Up to 2 units satisfy graduation requirements
Dept. of Integrated Biosciences:	Up to 2 units satisfy graduation requirements
Dept. of Computational Biology and Medical Sciences:	These units satisfy graduation requirements
Dept. of Ocean Technology, Policy and Environment:	Up to 2 units satisfy graduation requirements
Dept. of Human and Engineered Environmental Studies:	Up to 4 units satisfy graduation requirements
Graduate Program in Sustainability Science - Global Leadership Initiative:	These units satisfy graduation requirements

Master's and doctoral course students in the Department of Integrated Biosciences, Department of Computational Biology and Medical Sciences and Department of Human and Engineered Environmental Studies may take the following Common Subjects as part of the required units to satisfy the graduation requirements of your program.

47000-05	Special Lecture on Frontier Science V	2 units
47000-06	Special Lecture on Frontier Science VI	2 units

Master's and doctoral course students in all GSFS departments and programs may take the following Common Subjects as part of the required units to satisfy the graduation requirements of your program.

47000-31	Special Lecture on Frontier Science VII	1 unit
47000-32	Special Lecture on Frontier Science VIII	1 unit
47000-33	Special Lecture on Frontier Science IX	1 unit
47000-34	Special Lecture on Frontier Science X	1 unit
47000-35	Special Lecture on Frontier Science XI	1 unit

Transfer of academic units from subjects taken at overseas graduate schools, or internships completed at overseas universities, research institutions, or companies may be admitted as *GSFS Overseas Fieldwork I-V* for GSFS master's and doctoral course students. In this case, the number of units shall be limited to 15, and decisions on whether all or part of these units may be applied to the required units of the department or program shall be made by the relevant GSFS department. Students who wish to transfer units should contact the Student Affairs Team. Before registering for those subjects, be sure to consult your advisor.

47000-21	Overseas Researches on Frontier Sciences I	1 unit
47000-22	Overseas Researches on Frontier Sciences II	2 units
47000-23	Overseas Researches on Frontier Sciences III	3 units
47000-24	Overseas Researches on Frontier Sciences IV	4 units
47000-25	Overseas Researches on Frontier Sciences V	5 units

Master's and doctoral course students in the Department of Advanced Materials Science, Department of Integrated Biosciences, Department of Computational Biology and Medical Sciences, Department of Environment Systems, Department of Human and

Engineered Environmental Studies, and Department of International Studies may take the following Common Subject as part of the required units to satisfy the graduation requirements of your program.

47000-50 Stress Management - to enjoy your student life and your social life 2 units

Master's and doctoral course students in the Department of Integrated Biosciences; Department of Computational Biology and Medical Sciences; Department of Ocean Technology, Policy, and Environment; Department of Environment Systems; Department of Human and Engineered Environmental Studies; Department of Socio-Cultural Environmental Studies; Department of International Studies; and Graduate Program in Sustainability Science - Global Leadership Initiative may take the following Common Subjects as part of the required units to satisfy the graduation requirements of your program.

47000-82 Proactive Research Commons 4 units

Master's and doctoral course students in the Department of Integrated Biosciences; Department of Computational Biology and Medical Sciences; Department of Ocean Technology, Policy and Environment; Department of Environment Systems; Department of Human and Engineered Environmental Studies; and Graduate Program in Sustainability Science - Global Leadership Initiative may take the following Common Subject as part of the required units to satisfy the graduation requirements of your program.

47000-60 International Systems Design Workshop 1 unit

Master's and doctoral course students in the Department of Computational Biology and Medical Sciences; Department of Human and Engineered Environmental Studies; and Graduate Program in Sustainability Science - Global Leadership Initiative may take the following Common Subject as part of the required units to satisfy the graduation requirements of your program.

47000-76 Optimal System Design 2 units

Master's and doctoral course students in the Department of Computational Biology and Medical Sciences; and Graduate Program in Sustainability Science - Global Leadership Initiative may take the following Common Subject as part of the required units to satisfy the graduation requirements of your program.

47000-77 System Architecture 2 units

Master's and doctoral course students in the Department of Computational Biology and Medical Sciences; and Graduate Program in Sustainability Science - Global Leadership Initiative may take the following Common Subject as part of the required units to satisfy the graduation requirements of your program.

47000-84 Model Based Project Management 1 unit

Master's and doctoral course students in the Department of Computational Biology and Medical Sciences; Department of Ocean Technology, Policy and Environment; Department of Environment Systems; Department of Human and Engineered Environmental Studies; Department of International Studies; and Graduate Program in Sustainability Science - Global Leadership Initiative may take the following Common Subject as part of the required units to satisfy the graduation requirements of your program.

47000-83 Case Study: Social Design and Management 2 units

Master's and doctoral course students in the Department of Integrated Biosciences; Department of Computational Biology and Medical Sciences; Department of Human and Engineered Environmental Studies may take the following Common Subject as part of the required units to satisfy the graduation requirements of your program.

47000-85 Seminar in Aging Control Design 2 units

Doctoral course students in the Department of Computational Biology and Medical Sciences; Department of Human and Engineered Environmental Studies may take the following Common Subject as part of the required units to satisfy the graduation requirements of your program.

47000-86 GSFS Research Internship Through Specified Employment I 2 units

47000-87 GSFS Research Internship Through Specified Employment II 2 units

Master's and doctoral course students in the Department of Integrated Biosciences; Department of Computational Biology and Medical Sciences; Department of Ocean Technology, Policy and Environment; and Graduate Program in Sustainability Science - Global Leadership Initiative may take the following Common Subject as part of the required units to satisfy the graduation requirements of your program.

47000-62 Proactive Environmental Studies I 2 units

47000-63 Proactive Environmental Studies II 2 units

47000-64 Advanced UTSIP 2 units

47000-65 Overseas Exercise in Proactive Environmental Studies I 2 units

47000-66 Overseas Exercise in Proactive Environmental Studies II 4 units

47000-67 Research Internship for Proactive Environmental Studies I 2 units

47000-68 Research Internship for Proactive Environmental Studies II 2 units

47000-69	Transdisciplinary Skills and Theories I	2	units
47000-70	Transdisciplinary Skills and Theories II	2	units
47000-71	Advanced Field Exercise	4	units
47000-78	Critical Thinking Basics - Select concepts, tools and techniques I	1	unit
47000-79	Critical Thinking Basics - Select concepts, tools and techniques II	1	unit
47000-80	Critical Thinking Skills - Select applications & reflection I	1	unit
47000-81	Critical Thinking Skills - Select applications & reflection II	1	unit

*Be sure to consult your advisor before registering for any courses.

Transdisciplinary Science Education Programs

Nuclear Fusion Research Education Program

The Nuclear Fusion Research Education Program is administered by the Department of Advanced Energy and the Department of Complexity Science and Engineering. Master and doctoral course students in the program may take the program's courses as part of the required units to satisfy the graduation requirements of your department. A certificate of completion shall be awarded at the end of final term to those who satisfactorily complete the required units.

Master's Course

Students must take at least 30 units including their department's compulsory subjects and 6 or more Nuclear Fusion Research Education Program subject units (see list below).

Doctoral Course *(E) classes taught in English.

Students must take at least 20 units including their department's compulsory subjects and 2 or more Nuclear Fusion Research Education Program subject units (see list below).

47110-25	Plasma Diagnostic Techniques	2	units	S1, S2
47110-26	Plasma Applications	2	units	S1, S2
47110-15	Fundamentals of Plasma Physics	2	units	A1, A2
47110-16	Nonlinear Theory	2	units	S1, S2
47110-18	Plasma Physics and Controlled Nuclear Fusion	2	units	S1, S2
47110-34	Fusion Energy Engineering	2	units	S1, S2
47110-48	Advanced Plasma Physics and Engineering	2	units	S1, S2
47110-49	Boundary Plasma Science and Technology	2	units	A1, A2
47110-35	Fusion Science Special Lecture I (E)	1	unit	S1, S2
47110-36	Fusion Science Special Lecture II (E)	1	unit	S1, S2
47130-40	Plasma Wave Physics (E)	2	units	S1, S2
47130-02	Turbulence-induced Transport	2	units	A1, A2
47130-38	Advanced Nuclear Fusion Science and Engineering	2	units	S1, S2
47130-60	Introduction to plasma physics	2	units	S1, S2
47130-39	Practical Exercises in Nuclear Fusion	2	units	S1, S2

Education Program for High-Dimensional Data-Driven Science

As of the 2017 academic year, the name of the Education Program for Creativity in Transdisciplinary Sciences (CRETS) has changed to the *Education Program for High-Dimensional Data-Driven Science*. There are no changes to the graduation requirements of the program. Credits taken through the 2016 academic year will be carried over under the new name. Students who fulfill the graduation requirements during or after the 2017 academic year will receive a certificate of completion under the Education Program for High-Dimensional Data-Driven Science.

Master's and doctoral course students studying under the Education Program for High-Dimensional Data-Driven Science must take a total of at least 6 subject units in the Education Program for High-Dimensional Data-Driven Science curriculum including at least 4 units from the subjects marked with*.

47100-65	Introduction of Transdisciplinary Measurement Science *	1	unit	S2, A1
47100-66	Introduction of Advanced Nano-probes *	1	unit	S2, A1
47100-73	Practical Advanced Transdisciplinary Measurement Science *	1	unit	A2
47110-39	High-speed Numerical Simulation *	1	unit	S2, A1
47110-40	Applied Transdisciplinary Design *	1	unit	A1, A2
47130-51	Introduction to Data Driven Science I *	1	unit	S2, A1
47130-52	Introduction to Data Driven Science II *	1	unit	S2, A1
47130-53	Advanced Data Analysis (E)	2	units	S1, S2
47130-61	Remote Sensing Image Analysis (E)	2	units	A1,A2
47130-55	Advanced Statistical Modeling	2	units	
47110-16	Nonlinear Theory	2	units	S1,S2

47100-84	New Introduction to Advanced Materials Science I	1 unit	J: S1, E:A1
47100-93	New Introduction to Advanced Materials Science II	1 unit	S2
47100-94	New Introduction to Advanced Materials Science III (E)	1 unit	S1
47100-85	New Introduction to Advanced Materials Science IV (E)	1 unit	S2
47100-95	New Introduction to Advanced Materials Science V	1 unit	S1
47100-86	New Introduction to Advanced Materials Science VI (E: only in A2)	1 unit	J:S2, E:A2
47100-90	New Introduction to Advanced Materials Science VII	1 unit	S1

A certificate of completion shall be awarded at the end of S2 Term or A2 Term to those who satisfactorily complete the required units.

Deep Exploration Space Program (DESP)

Master's and doctoral course students studying in the DESP must take a total of at least 8 units in the DESP curriculum including at least 2 units from the subjects marked with*.

47110-43	Introduction to Deep Space Exploration *	2 units	A1, A2
47130-49	Practical Applications for Deep Space Exploration *	2 units	A1, A2
47110-47	Deep Space Exploration Mission Study *	2 units	A1, A2
47110-03	Propulsion and Energy Systems (E)	2 units	A1, A2
47110-04	Advanced Energy Conversion (E)	2 units	A1, A2
47110-45	Science and Technology of Atmospheric Entry	2 units	A1, A2
47130-08	Analyses of Complexity in Earth and Planets	2 units	S1, S2
47130-09	Evolution of Earth and Planets	2 units	S1, S2
47130-58	Observations and explorations of the Earth and planets (E)	2 units	A1, A2
47130-56	Space and Planetary Environment	2 units	A1, A2
47130-51	Introduction to Data Driven Science I	1 unit	S2, A1
47130-52	Introduction to Data Driven Science II	1 unit	S2, A1

A certificate of completion shall be awarded at the end of S2 Term or A2 Term to those who satisfactorily complete the required units.

Department of Advanced Materials Science

Master's Course

Students must take at least 30 units including:

47103-03	Advanced Materials Science Seminar IA	3 units	M1 1 st term in the 1 st year
47103-04	Advanced Materials Science Seminar IB	3 units	M2 1 st term in 2 nd year
47104-03	Special Research on Advanced Materials Science IA	6 units	M1 1 st term in 1 st year
47104-04	Special Research on Advanced Materials Science IB	6 units	M2 1 st term in 2 nd year

A maximum of 4 units for undergraduate coursework completed at UTokyo may be applied to the graduation requirements of your master course provided you obtain the approval of your advisor.

A maximum of 10 units for coursework in other departments, graduate schools, or education units completed at UTokyo may be applied to the graduation requirements of your master course provided you obtain the approval of your advisor.

Doctoral Course

Students must take at least 20 units including:

47103-05	Advanced Materials Science Seminar IIA	2 units	D1 1 st term in 1 st year
47103-06	Advanced Materials Science Seminar IIB	2 units	D2 1 st term in 2 nd year
47103-07	Advanced Materials Science Seminar IIC	2 units	D3 1 st term in 3 rd year
47104-05	Special Research on Advanced Materials Science II-A	4 units	D1 1 st term in 1 st year
47104-06	Special Research on Advanced Materials Science II-B	4 units	D2 1 st term in 2 nd year
47104-07	Special Research on Advanced Materials Science II-C	4 units	D3 1 st term in 3 rd year

A maximum of 2 units for coursework in other departments, graduate schools, or education units completed at UTokyo may be applied to the graduation requirements of your doctoral course provided you obtain the approval of your advisor. Even though you may take courses in undergraduate programs at UTokyo, no such units may be applied to the graduation requirements of your doctoral course.

Department of Advanced Energy

Master's Course

Students must take at least 30 units including:

47110-21	Special Lecture on Advanced Energy Engineering I	2 units	S1, S2
47113-01	Seminar in Advanced Energy Engineering I	2 units	M1 1 st term in 1 st year
47114-01	Special Research on Advanced Energy Engineering I	12 units	M1 1 st term in 1 st year
47113-04	Special Seminar in Advanced Energy Engineering I	1 unit	M1 A1, A2
47113-05	Special Seminar in Advanced Energy Engineering II	1 unit	M2 A1, A2

A maximum of 6 units for coursework in undergraduate coursework (a maximum of 2 of the 6 units), other departments, graduate schools, or education units completed at UTokyo may be applied to the graduation requirements of the master's course provided approval of your advisor is obtained.

Doctoral Course

Students must take at least 20 units including:

47113-02	Seminar in Advanced Energy Engineering II	2 units	D1 1 st term in 1 st year
47114-02	Special Research on Advanced Energy Engineering II	12 units	D1 1 st term in 1 st year

A maximum of 6 units for coursework in other departments, graduate schools, or education units completed at UTokyo may be applied to the graduation requirements of your doctoral course provided you obtain the approval of your advisor. Even though you may take courses in undergraduate programs at UTokyo, no such units may be applied to the graduation requirements of your doctoral course.

Department of Complexity Science and Engineering

Master's Course

Students must take at least 30 units including:

47133-01	Seminar on Complexity Science and Engineering I	6 units	M1 1 st term in 1 st year
47134-01	Special Research in Complexity Science and Engineering I	12 units	M1 1 st term in 1 st year

A maximum of 6 units for undergraduate coursework or for coursework in other departments, graduate schools, or education units (undergraduate coursework is limited to a maximum of 2 units) completed at UTokyo may be applied to the graduation requirements of your master's course provided you obtain the approval of your advisor.

Doctoral Course

Students must take at least 20 units including:

47133-02	Seminar on Complexity Science and Engineering II	6 units	D1 1 st term in 1 st year
47134-02	Special Research in Complexity Science and Engineering II	12 units	D1 1 st term in 1 st year

A maximum of 2 units for coursework in other departments, graduate schools, or education units completed at UTokyo may be applied to the graduation requirements of your doctoral course provided you who have received 8 or more units from lecture courses within the Department of Complexity Science and Engineering either as a doctoral or master student, and have obtained the approval of your advisor. Even though you may take courses in undergraduate programs at UTokyo, no such units may be applied to the graduation requirements of your doctoral course.

Bioscience Common Subjects

Data Scientist Training Education Program (DSTEP)

Doctoral course students in the Department of Integrated Biosciences or Department of Computational Biology and Medical Sciences may take the DSTEP. Students taking DSTEP are categorized into either Group A or Group B. Students will be assigned either group A or B, based on the background of their study: DSTEP-B pattern for a Biology background or DSTEP-I pattern for an Information Science background. The DSTEP Program Committee shall determine which pattern students will follow. Students in both groups must complete all graduation requirements.

Doctoral course students studying in the DSTEP must meet the requirements below.

《Group A》

- 1) Research proposal and approval: After you are admitted to the doctoral course, apply for the program, and obtain approval from the DSTEP Program Committee.
- 2) Course registration: In addition to the required DSTEP courses, you must take certain elective courses based on a pattern designated by the DSTEP program committee.
- 3) Program final assessment: you must pass written examination and oral examination

《Group B》

- 1) Course registration: In addition to the required DSTEP courses, you must take certain elective courses based on a pattern designated by the DSTEP program committee.

[Compulsory subjects]

Doctoral course students studying in the DSTEP must take their department's compulsory subjects and Practical Exercise of Data Science I - III (Only Group A) and Exercise of Biological Data Programming I subject units (see list below)

(Requirements: Group A: 4units, Group B: 1unit).

47243-25	Practical Exercise of Data Science I	1 unit
47243-26	Practical Exercise of Data Science II	1 unit
47243-27	Practical Exercise of Data Science III	1 unit
47243-23	Exercise of Biological Data Programming I	1 unit

[Required Elective Courses]

Students in the DSTEP-B pattern (Life sciences) must take an additional 4 units from the group of required elective courses. However, these courses may be substituted by computational biology courses provided you request consideration and obtain approval from the DSTEP Program Committee.

Students in the DSTEP-I pattern (Computational biology) must take Exercise of Biological Data Programming II. In addition, you must take two subjects in basic medicine and biology from the list of 20 courses below as required elective courses.

- 1) Department of Computational Biology, Medical Sciences: Advanced Course III - VIII (total 6 subjects)
- 2) Department of Integrated Biosciences: Bio-Medicine and Drug Discovery, Molecular recognition, Biochemistry of Cell Responsiveness, Signal Transduction, Molecular Mechanisms of Adaptation, Genomic Instability, Eucaryotic Cell Biology, Human Evolutionary Specificity, Evolutionary Genetics, Control of Biological Function, Microbe vs Non-Microbe Interactions, Frontiers in Cancer Science, Frontiers in Molecular Biology I, Frontiers in Molecular Biology II (total 14 subjects)

[Credit for previous courses]

Courses taken in a master's program or other graduate school program are not counted as part of the graduation requirements for the doctoral program. However, they may be recognized provided a request is made.

Students who complete the final assessment of graduation requirements made at the end of the program, will receive a certificate of completion.

Doctoral course students in the DSTEP may have these subjects apply to the graduation requirements of your department.

Department of Integrated Biosciences

Master's Course

Students must take at least 30 units including:

	<i>one</i> subject from		
47140-38	Breakthrough Now and Then I (Pre-school)	2 units	S1, S2
47140-39	Breakthrough Now and Then II (E)	2 units	S1, S2
	<i>one</i> subject from		
47143-05	Debate on Ethics in Science and Technology	2 units	S1, S2
47143-06	Debate on Topics in Science and Technology (E)	2 units	S1, S2

	<i>more than three</i> subjects from		
47140-06	Bio-Medicine, Drug Discovery (E)	1 unit	A1, A2
47140-07	Molecular recognition (E)	1 unit	A1, A2
47140-09	Biochemistry of Cell Responsiveness (E)	1 unit	A1, A2
47140-13	Signal transduction (E)	1 unit	A1, A2
47140-15	Molecular mechanisms of adaptation (E)	1 unit	A1, A2
47140-17	Genomic Instability (E)	1 unit	A1, A2
47140-18	Eucaryotic cell biology (E)	1 unit	A1, A2
47140-36	Human Evolutionary Specificity (E)	1 unit	A1, A2
47140-21	Evolutionary genetics (E)	1 unit	A1, A2
47140-23	Control of Biological Function (E)	1 unit	A1, A2
47140-25	Microbe vs Non-Microbe Interactions (E)	1 unit	A1, A2
47140-41	Evolutionary genomics (E)	1 unit	A1, A2
47140-40	Frontiers in Cancer Science	1 unit	A1, A2

	<i>and</i> the following 4 subjects		
47140-34	Frontiers in Molecular Biology I (E)	1 unit	S1 or A1
47143-02	Seminar in Integrated Biosciences	4 units	M1, register in 1 st term
47143-03	Research Project Planning	2 units	S1 or A1
47144-01	Research of Integrated Biosciences I	12 units	M1, register in 1 st term

A maximum of 4 units for undergraduate coursework or for coursework in other departments, graduate schools, or education units completed at UTokyo may be applied to the graduation requirements of your master course provided you obtain the approval of your advisor.

Doctoral Course

Students must take at least 20 units including:

47143-04	Advanced Seminar in Integrated Biosciences	8 units	register in 1 st term
47144-02	Research of Integrated Biosciences II	12 units	register in 1 st term

Even though you may take courses in undergraduate programs at UTokyo, no such units may be applied to the graduation requirements of your doctoral course.

Department of Computational Biology and Medical Sciences

Master's Course

Students must take at least 30 units including:

47244-01	Research in Computational Biology and Medical Sciences I	12 units	M1 1 st term in 1 st year
47243-15	Seminar in Computational Biology and Medical Sciences I	4 units	M1 1 st term in 1 st year
47240-25	Research Ethics and Clinical Ethics I	1 unit	S1 in M1

A maximum of 10 units for undergraduate coursework or for coursework in other departments, graduate schools, or education units completed at UTokyo may be applied to the graduation requirements of your master's course provided you obtain the approval of your advisor.

Doctoral Course

Students must take at least 20 units including:

47243-16	Compulsory Exercise for PhD Students I	1 unit	D1 1 st term in 1 st year
47243-17	Compulsory Exercise for PhD Students II	1 unit	D2 1 st term in 2 nd year
47244-02	Research in Computational Biology and Medical Sciences II	10 units	D1 1 st term in 1 st year
47243-18	Seminar in Computational Biology and Medical Sciences II	8 units	D1 1 st term in 1 st year

Enrolled students in the doctoral course who do not finish the master course at CBMS must take Research Ethics and Clinical Ethics I (47240-25) in S1Term in the 1st year of doctoral course.

Department of Computational Biology and Medical Sciences Biomedical Innovation Course

Master's Course

Students must take at least 30 units including:

47240-47	Introduction to Intellectual Property Law in Biotechnology	1 unit	S1
47240-48	Advanced Lecture on Biomedical Innovation I	1 unit	S2
47243-20	Exercises of Comprehensive Analysis on Biomedical Innovation	1 unit	A1, A2
47240-25	Research Ethics and Clinical Ethics I	1 unit	S1
47240-50	Advanced Lecture on Medical Sciences and Public Policy I	1 unit	A1, A2
47244-03	Research in Biomedical Innovation I	12 units	M1 1 st term in 1 st year
47243-28	Seminar in Biomedical Innovation I	4 units	M1 1 st term in 1 st year

A maximum of 10 units for undergraduate coursework or for coursework in other departments, graduate schools, or education units completed at UTokyo may be applied to the graduation requirements of your master's course provided you obtain the approval of your advisor.

Master's students must take Research in Biomedical Innovation I (47244-03) and Seminar in Biomedical Innovation I (47243-28) during the first semester of the program.

Master's students should register for Research Ethics and Clinical Ethics I (47240-25) during S1 term of the first year. Master's students should register for course Introduction to Intellectual Property Law in Biotechnology (47240-47), Advanced Lecture on Biomedical Innovation I (47240-48), Exercises of Comprehensive Analysis on Biomedical Innovation (47243-20) and Advanced lecture on Medical Sciences and Public Policy I (47240-50) in the terms that they are offered.

Doctoral Course

Students must take at least 20 units including:

47243-16	Compulsory Exercise for PhD Students I	1 unit	D1 1 st term in 1 st year
47243-17	Compulsory Exercise for PhD Students II	1 unit	D2 1 st term in 2 nd year
47244-02	Research in Biomedical Innovation II	10 units	D1 1 st term in 1 st year
47243-18	Seminar in Biomedical Innovation II	8 units	D1 1 st term in 1 st year

Enrolled students in the doctoral course must take Research Ethics and Clinical Ethics I (47240-25) in S1Term in 1st year of doctoral course.

Doctoral students must register for Compulsory Exercise for PhD Students I (47243-16), Research in Biomedical Innovation II (47244-04), and Seminar in Biomedical Innovation II (47243-29) courses during the first semester of the program. Register for course Compulsory Exercise for PhD Students II (47243-17) in the term when you matriculate to D2.

Environmental Studies Common Subjects

Integrated Environment Design Program (IEDP)

Master's and doctoral course students taking Integrated Environment Design Management must take at least 6 units from the following subjects including Theory of Integrated Environmental Design (47196-17). Students at Department of Natural Environmental Studies; Department of Ocean Technology, Policy, and Environment; Department of Environment Systems; Department of Human and Engineered Environmental Studies; Department of Socio-Cultural Environmental Studies; Department of International Studies and the Graduate Program in Sustainability Science - Global Leadership Initiative may take the following subjects as part of the required units to satisfy graduation requirement. A certificate of completion shall be awarded at the end of final term to those who satisfactorily complete the required units.

			<i>Term</i>
47196-08	Urban Design Studio	4 units	A1, A2
47196-22	Natural Environmental Design Studio I	4 units	A1, A2
47196-10	Natural Environmental Design Studio II	2 units	S1, A1, A2
47196-11	Rural Design Studio	2 units	A1, A2
47196-21	Landscape Design Studio	2 units	register in 1 st term
47196-16	Architectural Structure Design Studio	4 units	A1, A2
47196-17	Integrated Environment Design Theory	2 units	S1, S2
47196-19	Architecture Design Studio I	2 units	S2
47196-20	Architecture Design Studio II	2 units	register in 1 st term
47196-25	Urban Watershed Design Studio I	4 units	S1, S2
47196-26	Urban Watershed Design Studio II	2 units	S1, S2
47196-23	ICT & Multimedia Design Studio	2 units	A1, A2
47196-27	Community Business Design Studio I	2 units	S1, S2
47196-28	Community Business Design Studio II	2 units	register in 1 st term

Graduate Program in Sustainability Science – Global Leadership Initiative Minor Program

Students must take at least 5 units including:

	<i>one</i> subject from		
47000-62	Proactive Environmental Studies I	2 units	
47220-98	Sustainability Science: Japanese Perspectives	2 units	
	<i>and the following subjects</i>		
47221-37	Field Exercise on Sustainability Science	2 units	
47251-01	Seminar on Sustainability Science I	1 unit	
47251-02	Seminar on Sustainability Science II	1 unit	

Master's and doctoral course students in Graduate Program in Sustainability Science - Global Leadership Initiative cannot take this minor program.

Division of Environmental Studies inter-department educational subjects

Master's and doctoral course students in the Department of Natural Environmental Studies; Department of Socio-Cultural Environmental Studies; and the Graduate Program in Sustainability Science - Global Leadership Initiative may take the following Division of Environmental Studies inter-department educational subjects as part of the required units to satisfy the graduation requirements of your program.

47151-37	Terrestrial Natural Environment	2 units
47151-38	Ocean Natural Environment	2 units
47260-02	Introduction to Socio-Cultural Environmental Studies	2 units

Master's and doctoral course students in the Department of Natural Environmental Studies; Department of Environment Systems; Department of Socio-Cultural Environmental Studies; and the Graduate Program in Sustainability Science - Global Leadership Initiative may take the following Division of Environmental Studies inter-department educational subjects as part of the required units to satisfy the graduation requirements of your program.

47260-01	Introduction to Environmental Systems	2 units
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Master's and doctoral course students in the Department of Natural Environmental Studies; Department of Ocean Technology, Policy, and Environment; Department of Socio-Cultural Environmental Studies; and the Graduate Program in Sustainability Science - Global Leadership Initiative may take the following Division of Environmental Studies inter-department educational subjects as part of the required units to satisfy the graduation requirements of your program.

47260-03	Special Lecture on Project Management	2 units
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Department of Natural Environmental Studies

Master's Course

Students must take at least 30 units including:

	<i>one</i> subject from			
47155-01	Seminar in Natural Environmental Studies I	2 units		register in 1 st term
47155-02	Seminar in Natural Environmental Studies II	2 units		register in 1 st term
	<i>one</i> subject from			
47157-01	Research Work in Natural Environmental Studies I	4 units		register in 1 st term
47157-02	Research Work in Natural Environmental Studies II	4 units		register in 1 st term
	<i>two</i> subjects from			
47157-47	Extensive Fieldwork on Natural Environmental Studies	1 unit	S1	
47157-49	Practice in Natural Environmental Studies	2 units	S1, S2	
47157-51	Practice in Marine Studies	2 units		register in 1 st term

and *four* subjects (8 units) from among courses marked with * in the GSFS course catalog

A maximum of 6 units for undergraduate coursework or for coursework in other departments, graduate schools, or education units (undergraduate coursework is limited to a maximum of 4 units) completed at UTokyo may be applied to the graduation requirements of your master's course provided you obtain the approval of your advisor.

Doctoral Course

Students must take at least 20 units including:

	<i>one</i> subject from			
47155-03	Advanced Seminar on Natural Environmental Studies I	2 units		register in 1 st term
47155-04	Advanced Seminar on Natural Environmental Studies II	2 units		register in 1 st term
47155-05	Advanced Seminar on Natural Environmental Studies III	2 units		register in 1 st term
	<i>one</i> subject from			
47157-03	Advanced Research Work in Natural Environmental Studies I	4 units		register in 1 st term
47157-04	Advanced Research Work in Natural Environmental Studies II	4 units		register in 1 st term
47157-05	Advanced Research Work in Natural Environmental Studies III	4 units		register in 1 st term

A maximum of 8 units for coursework in other departments, graduate schools, or education units completed at UTokyo may be applied to the graduation requirements of your doctoral course provided you obtain the approval of your advisor. Even though you may take courses in undergraduate programs or in other departments, graduate schools, or education units at UTokyo, no such units may be applied to the graduation requirements of your doctoral course.

Department of Ocean Technology, Policy, and Environment

Master's Course

Students must take at least 30 units including:

47234-01	Research on Ocean Technology, Policy and Environment Is	2.5 units	M1	S1, S2
47234-02	Research on Ocean Technology, Policy and Environment Iw	2.5 units	M1	A1, A2
47234-03	Research on Ocean Technology, Policy and Environment IIs	2.5 units	M2	S1, S2
47234-04	Research on Ocean Technology, Policy and Environment IIw	2.5 units	M2	A1, A2
Spring entry progression:	47234-01 → 47234-02 → 47234-03 → 47234-04			
Fall entry progression:	47234-02 → 47234-01 → 47234-04 → 47234-03			

A maximum of 18 units for undergraduate coursework or for coursework in other departments, graduate schools, or education units (undergraduate coursework is limited to a maximum of 8 units) completed at UTokyo may be applied to the graduation requirements of your master course provided you obtain the approval of your advisor.

Doctoral Course

Students must take at least 20 units including:

47234-11	Special Research on Ocean Technology, Policy and Environment Is	2.5 units	D1	S1, S2
47234-12	Special Research on Ocean Technology, Policy and Environment Iw	2.5 units	D1	A1, A2
47234-13	Special Research on Ocean Technology, Policy and Environment IIs	2.5 units	D2	S1, S2
47234-14	Special Research on Ocean Technology, Policy and Environment IIw	2.5 units	D2	A1, A2
47234-15	Special Research on Ocean Technology, Policy and Environment IIIs	2.5 units	D3	S1, S2
47234-16	Special Research on Ocean Technology, Policy and Environment IIIw	2.5 units	D3	A1, A2

Spring entry progression: 47234-11 → 47234-12 → 47234-13 → 47234-14 → 47234-15 → 47234-16

Fall entry progression: 47234-12 → 47234-11 → 47234-14 → 47234-13 → 47234-16 → 47234-15

Units for undergraduate coursework or for coursework in other departments, graduate schools, or education units completed at UTokyo may be applied to the graduation requirements of your doctoral course provided you obtain the approval of your advisor.

Department of Environment Systems

Master's Course

Students must take at least 30 units including:

47163-29	Researches on Environment Systems I	2 units	M1 1 st term in 1 st year
47163-30	Researches on Environment Systems II	2 units	M2 1 st term in 2 nd year
47164-21	Experiments on Environment Systems I	4 units	M1 1 st term in 1 st year
47164-22	Experiments on Environment Systems II	4 units	M2 1 st term in 2 nd year

A maximum of 18 units for undergraduate coursework or for coursework in other departments, graduate schools, or education units (undergraduate coursework is limited to a maximum of 8 units) completed at UTokyo may be applied to the graduation requirements of your master's course provided you obtain the approval of your advisor.

Doctoral Course

Students must take at least 20 units including:

47163-31	Special Researches on Environment Systems I	2 units	D1 1 st term in 1 st year
47163-32	Special Researches on Environment Systems II	2 units	D2 1 st term in 2 nd year
47163-33	Special Researches on Environment Systems III	2 units	D3 1 st term in 3 rd year
47164-23	Special Experiments on Environment Systems I	4 units	D1 1 st term in 1 st year
47164-24	Special Experiments on Environment Systems II	4 units	D2 1 st term in 2 nd year
47164-25	Special Experiments on Environment Systems III	4 units	D3 1 st term in 3 rd year

Units for coursework in other departments, graduate schools, or education units completed at UTokyo may be applied to the graduation requirements of your doctoral course provided you obtain the approval of your advisor. Even though you may take courses in undergraduate programs at UTokyo, no such units may be applied to the graduation requirements of your doctoral course.

Master's Course and Doctoral Course

A maximum of 15 units of coursework from the following subjects may be applied as part of the required units to satisfy the graduation requirements of your master or doctoral course.

47163-34	Overseas Researches on Environment Systems I	2 units
47163-35	Overseas Researches on Environment Systems II	2 units
47163-36	Overseas Researches on Environment Systems III	2 units
47163-37	Overseas Researches on Environment Systems IV	4 units
47163-38	Overseas Researches on Environment Systems V	1 unit
47163-39	Overseas Researches on Environment Systems VI	1 unit
47163-40	Overseas Researches on Environment Systems VII	1 unit
47000-21	Overseas Researches on Frontier Sciences I	1 unit
47000-22	Overseas Researches on Frontier Sciences II	2 units
47000-23	Overseas Researches on Frontier Sciences III	3 units
47000-24	Overseas Researches on Frontier Sciences IV	4 units
47000-25	Overseas Researches on Frontier Sciences V	5 units
47000-65	Overseas Exercise in Proactive Environmental Studies I	2 units
47000-66	Overseas Exercise in Proactive Environmental Studies II	4 units

Department of Human and Engineered Environmental Studies

Master's Course

Students must take at least 30 units including:

47173-14	Special Exercises in Human and Engineered Environment I	6 units	M1 1 st term in 1 st year
47173-16	Special Exercises in Human and Engineered Environment III	4 units	M2 1 st term in 2 nd year

A maximum of 12 units for undergraduate coursework or for coursework in other departments, graduate schools, or education units (undergraduate coursework is limited to a maximum of 8 units) completed at UTokyo may be applied to the graduation requirements of your master's course provided you obtain the approval of your advisor.

Doctoral Course

Students must take at least 20 units including:

47173-15	Special Exercises in Human and Engineered Environment II	6 units	D1 1 st term in 1 st year
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A maximum of 6 units for coursework in other departments, graduate schools, or education units completed at UTokyo may be applied to the graduation requirements of your doctoral course provided you obtain the approval of your advisor. Even though you may take courses in undergraduate programs at UTokyo, no such units may be applied to the graduation requirements of your doctoral course.

Department of Socio-Cultural Environmental Studies

Master's Course

Students must take at least 30 units including:

1) minimum of 4 units from Practice (*enshuu*) courses other than the following Practice courses:

47183-11	Seminar on Socio-cultural Environment I	2 units	S1, S2
47183-12	Seminar on Socio-cultural Environment II	2 units	A1, A2
47183-13	Seminar on Socio-cultural Environment III	2 units	S1, S2
47183-14	Seminar on Socio-cultural Environment IV	2 units	A1, A2

2) minimum of 6 units from Lecture (*kougi*) courses, and

47184-01	Study on Socio-cultural Environment	6 units	register at 1 st term in 1 st year
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A maximum of 10 units for undergraduate coursework or for coursework in other departments, graduate schools, or education units (undergraduate coursework is limited to a maximum of 8 units) completed at UTokyo may be applied to the graduation requirements of your master course provided you obtain the approval of your advisor.

Doctoral Course

Students must take at least 20 units including:

47184-02	Special Study on Socio-cultural Environment	8 units	D1 1 st term in 1 st year
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A maximum of 10 units for coursework in other departments, graduate schools, or education units completed at UTokyo may be applied to the graduation requirements of your doctoral course provided you obtain the approval of your advisor. Even though you may take courses in undergraduate programs at UTokyo, no such units may be applied to the graduation requirements of your doctoral course.

Doctoral students who matriculated from outside any of the departments in the Division of Environmental Studies must take 8 units, **including 4 units or more** from within the lecture courses offered by the departments of the division. Be sure to consult your advisor.

For both Master's and Doctoral Courses, the units for up to 2 of the following courses in the Graduate School of Humanities and Sociology, Faculty of Letters may be applied to the graduation requirements of your master or doctoral course:

Introduction to Applied Ethics (Graduate School of Humanities and Sociology)	2 units	see catalog
Special Lecture on Applied Ethics (Graduate School of Humanities and Sociology)	2 units	"
Practice in Applied Ethics (Graduate School of Humanities and Sociology)	2 units	"

*Consult your advisor before registering.

Department of International Studies

Master's Course

Students must take at least 30 units.

A maximum of 12 units for undergraduate coursework or for coursework in other departments, programs, graduate schools, or education units (undergraduate coursework is limited to a maximum of 8 units) completed at UTokyo may be applied to the graduation requirements of your master's course provided you obtain the approval of your advisor.

Doctoral Course

Students must take at least 20 units.

A maximum of 6 units for coursework in other departments, programs, graduate schools, or education units completed at UTokyo may be applied to the graduation requirements of your doctoral course provided you obtain the approval of your advisor. Even though you may take courses in undergraduate programs at UTokyo, no such units may be applied to the graduation requirements of your doctoral course.

Graduate Program in Sustainability Science - Global Leadership Initiative

Master's Course

Students must take at least 30 units including:

- 1) 4 units from the Basic Compulsory Courses on Sustainability Science
- 2) minimum 4 units from the Compulsory Elective Lecture Courses
- 3) 2 units from Compulsory Exercise Courses
- 4) 12 units from Thesis-Related Courses

A maximum of 4 units for undergraduate coursework or for coursework in other departments, graduate schools, or education units completed at UTokyo may be applied to the graduation requirements of your master course provided you obtain the approval of your advisor.

Doctoral Course

Students must take at least 20 units including:

- 1) 18 units from Doctoral Thesis-Related Course

Enrolled students in the doctoral course without taking up the Basic Compulsory Courses on Sustainability Science (4 units) provided in the master's course must take these compulsory courses in addition to the thesis-related course.

A maximum of 2 units for coursework in other departments, graduate schools, or education units completed at UTokyo may be applied to the graduation requirements of your doctoral course provided you obtain the approval of your advisor. Even though you may take courses in undergraduate programs at UTokyo, no such units may be applied to the graduation requirements of your doctoral course. Students in doctoral course need to register Doctoral Research on Sustainability Science in the first term in the first year.

Timing of the Registration of Compulsory Courses

Master's Course

Students in the Master's course need to register "Seminar on Sustainability Science (Master's)" in the first term in the first year.

April entrants need to take other Master's Thesis-Related Courses in the following order.

47222-05	Master's Research on Sustainability Science I	2 units	M1, S1 term
47222-06	Master's Research on Sustainability Science II	2 units	M1, A1 term
47222-07	Master's Research on Sustainability Science III	2 units	M2, S1 term
47222-08	Master's Research on Sustainability Science IV	2 units	M2, A1 term

October entrants need to take other Master's Thesis-Related Courses in the following order.

47222-05	Master's Research on Sustainability Science I	2 units	M1, A1 term
47222-06	Master's Research on Sustainability Science II	2 units	M1, S1 term
47222-07	Master's Research on Sustainability Science III	2 units	M2, A1 term
47222-08	Master's Research on Sustainability Science IV	2 units	M2, S1 term

Doctor Course

Students in the Doctor's course need to register "Seminar on Sustainability Science (Doctoral)" in the first term in the first year.

April entrants need to take other Doctoral Thesis-Related Courses in the following order.

47222-10	Doctoral Research on Sustainability Science I	2 units	D1, S1 term
47222-11	Doctoral Research on Sustainability Science II	2 units	D1, A1 term
47222-12	Doctoral Research on Sustainability Science III	2 units	D2, S1 term
47222-13	Doctoral Research on Sustainability Science IV	2 units	D2, A1 term
47222-14	Doctoral Research on Sustainability Science V	2 units	D3, S1 term
47222-15	Doctoral Research on Sustainability Science VI	2 units	D3, A1 term

October entrants need to take other Doctoral Thesis-Related Courses in the following order.

47222-10	Doctoral Research on Sustainability Science I	2 units	D1, A1 term
47222-11	Doctoral Research on Sustainability Science II	2 units	D1, S1 term
47222-12	Doctoral Research on Sustainability Science III	2 units	D2, A1 term
47222-13	Doctoral Research on Sustainability Science IV	2 units	D2, S1 term
47222-14	Doctoral Research on Sustainability Science V	2 units	D3, A1 term
47222-15	Doctoral Research on Sustainability Science VI	2 units	D3, S1 term

World-leading Innovative Graduate Study Program in Proactive Environmental Studies (WINGS-PES)

Requirements for completing WINGS-PES

Students are required to earn 15 credits in total from Compulsory Subjects and Compulsory Elective Subjects following the below specifications, and to pass QE and FE, in addition to the completion requirements of a master's or doctoral course they belong to.

- 1) Seven (7) credits from Compulsory Subjects for Master's Course ("Proactive Environmental Studies I", "Proactive Environmental Studies II", and Subject Group D)
- 2) Four (4) credits from subjects selected by each student from either the Sustainability Science Subject Group (Subject Group A) or the Proactive Research Commons Subject Group (Subject Group B)
- 3) Four (4) credits from the subjects in the Environmental Wisdom Professional Practicum Group (Subject Group C)

Please visit WINGS-PES website for more information

URL : <https://wings-pes.edu.k.u-tokyo.ac.jp/>

URL: <https://wings-pes.edu.k.u-tokyo.ac.jp/home-english>

List of WINGS programs that accept applications from GSFS students

GSFS website shown below introduces the list of WINGS programs that accept applications from GSFS students.

Please visit each program's website or contact the program office to learn more details.

URL: https://www.k.u-tokyo.ac.jp/exam_e/wings.htm

Grades

Student achievement in GSFS departmental subjects is generally assessed according to the following grading system:

A	superior	優	<i>yu</i>
B	good	良	<i>ryou</i>
C	fair	可	<i>ka</i>
D	fail	不可	<i>fuka</i>

However, the following subjects have been graded based on a pass-fail system:

Department	Class Code		Units
GSFS Common Subjects	47000-31	Special Lecture on Frontier Science VII	1
	47000-32	Special Lecture on Frontier Science VIII	1
	47000-33	Special Lecture on Frontier Science IX	1
Integrated Biosciences	47140-38	Breakthrough Now and Then I (Pre-school)	2
	47140-39	Breakthrough Now and Then II (E)	2
Natural Environment Studies	47157-47	Extensive Fieldwork on Natural Environmental Studies	1
Environment Systems	47163-06	Internship on Environmental System	2
	47163-09	Seminar on Environment Systems	2
International Studies	47190-46	Summer Program	2
	47191-05	Basic Mathematics for International Studies	2
	47191-04	International Studies Research Seminar	1
	47194-03	International Studies Masters Internship I	2
	47194-04	International Studies Masters Internship II	2
	47194-05	International Studies Doctoral Internship I	2
47194-06	International Studies Doctoral Internship II	2	

Miscellaneous Procedures

Student Reception Counter

Office: Student Affairs Team, GSFS
1st floor, Transdisciplinary Sciences Building, Kashiwa Campus

Office hours: 10. a.m. – 12 noon, 1 – 4 p.m. (Mon. – Fri., closed noon – 1 p.m. and weekends)

Contact number: 04-7136-4008, -4009 (extension 64008, 64009)

E-mail address: k-kyomu@adm.k.u-tokyo.ac.jp
*Reception Counter may be closed earlier as a measure against COVID-19.
**Please be sure to clarify your name and student ID number (starts with 47) when you email us.

Information for GSFS students

Information on class starting dates/cancellations and other notices is posted on the GSFS Office Portal Site (see below), so be sure to bookmark this site and check it regularly for new information. Also, notices are occasionally posted on the bulletin board in front of the Student Affairs Team, so be sure to take a look at the board regularly as well.

GSFS Office Portal Site

<https://gsfs-portal.k.u-tokyo.ac.jp/>

Individual communications with limited subjects may be notified by UTAS notices and accompanying e-mail transmissions.
You must register your contact e-mail address with the UTAS system.

Forms

All the documents required for academic procedures are downloadable from the above GSFS Office Portal Site or visit the Student Affairs Team.

Student Procedures URL

https://gsfs-portal.k.u-tokyo.ac.jp/kyoumu/administrative_procedures/

Issuance of certificates

◇ *Japanese certificates*
Usually available 2 working days after a request is received.

◇ *English certificates*
Usually available 7 to 10 working days after a request is received.

Reference URL: https://gsfs-portal.k.u-tokyo.ac.jp/kyoumu/administrative_procedures/certificate/

Automatic Certificate Issuing Machine

An Automatic Certificate Issuing Machine is located in the inside lobby area on the 1st floor of the Transdisciplinary Sciences Building. Those with an UTokyo Account can use this machine to obtain certain certificates.

For locations, please see https://gsfs-portal.k.u-tokyo.ac.jp/kyoumu/administrative_procedures/hakkouki/

Reissuing Student ID

If you lose or damage your student ID, a request to reissue your ID should be made at the Student Reception Counter. The process normally takes about two weeks and there is a 2,000-yen charge. If you have a damaged ID card, return it to the Student Affairs Team when requesting a replacement. There is no charge when the ID is reissued because of a name change.

Change of Address/Name

If you change your address, telephone number, or other personal information, be sure to make the appropriate changes online using the UTAS system. If you change your name (or if you choose to register your maiden's name), bring Notification of Change in Name and an official copy of your Certificate of Residency to the Student Affairs Team.

Leave of Absence

Procedures

- ◇ Students who want to take a leave of absence must fill in the proper request form, and submit the form with the approval of your advisor and the head of your department at least one (1) month in advance.
- ◇ Requests will not be accepted if the student's tuition payments are in arrears, or if the paperwork is not completed properly.
- ◇ In addition, the following documents related to the reasons for leaves of absence must be attached to the request form:

Reasons of Leaves of Absence*	Documents required (please attach)
Personal: Financial reasons	written statement of reasons (one A4 page, free format)
Personal: Sickness/Illness	physician's certificate (copy)
Study and research at a foreign educational/research institution, etc.	written acceptance letter from the foreign educational /research institution where you will study/research (copy)
Research overseas	specific research plan (one A4 page, free format)

* If your reason for leave of absence does not fall under any of the categories stated above, consult the Student Affairs Team as soon as possible.

* If you are receiving a loan from the Japan Student Services Organization (JASSO) and wishing to take a leave of absence, you will need to submit a request form (Idoh-negai/todoke) to the HQ office in charge of JASSO in order to stop the loan. The submission must be made by the 20th of the month prior the leave of absence.

Duration and effect on degree or program completion time limits

The five periods below are applicable for leave of absence. In principle, the 1st day of the month is the beginning of leave; the last day of the month is the end of any leave of absence. Regardless of the class term in the year, these periods are applied for the absence of your leave. Students are permitted to take it up to one year for any single request for leave of absence. The periods longer than one period may be applied for the leave of absence as well (① from April 1 to March 31 of following year. ② from April 1 to September 30. ③ from October 1 to March 31 of following year). Consult Student Affairs Team before application.

⁷ Article 29, The University of Tokyo Graduate Schools Academic Regulations

- (1) April 1 - May 31 (2) June 1 - August 31 (3) Sept. 1 – November 30
(4) December 1 – January 31 (5) February 1 – March 31

Returning to school

- ◇ If the need for a leave of absence no longer exists prior to the end of an approved period of leave of absence, the student may request early readmission by filling in the proper request form and returning the form with the approval of your advisor and the head of your department at least one (1) month in advance of the desired date of readmission.
- ◇ Students returning at the expected end of a period of leave of absence must also submit this form to the Student Affairs Team.
- ◇ Students who take a leave of absence due to sickness/illness must attach a copy of a physician's certificate to the request form certifying that you may return to the university without further health problems.
- ◇ If a loan from JASSO has been suspended and you wish to resume receiving, you will need to submit a request form

(Idoh-negai/todoke) to the HQ office in charge of JASSO. The submission must be made by the 20th of the month prior to returning.

Tuition

- ◇ Students are generally exempt from paying tuition during a leave of absence. The tuition exemption period corresponds to the term (April 1 to September 30 / October 1 to March 31) for which a leave of absence is taken. However, please note that depending on the month in which the leave request is submitted, exemptions are *not* always granted. Tuition exemption will also not be granted for leave of absences taken during the above mentioned five periods (1) ~ (5).
- ◇ Readmitted students are required to pay the tuition beginning with the half of the academic year in which the month of readmission occurs (first half of the academic year: April 1 to September 30 or second half of the academic year: October 1 to March 31 of following year) by the end of the month of readmission.
- ◇ Tuition already paid shall *not* be refunded.

Student IDs

If your student ID expires during a leave of absence, request a new ID at the Student Reception Counter at the Student Affairs Team. A new ID will be issued in exchange for the expired one.

Student Visa

If international students who hold a student visa take a leave for more than three (3) months, the student visa will be terminated even if the visa is still valid in accordance with Japanese Immigration Law. Student visa holders who remain in Japan while taking a leave must change his/her status of eligibility from “student” to another status category. Failure to comply with Japanese Immigration Law may cause you to be regarded as an illegal resident.

When returning to school, application for a certificate of eligibility will be necessary in order to reenter Japan, or changing your status to a student visa.

Procedures for Overseas Travel

Students who travel abroad for a short period for whatever reason must obtain permission from their advisor first and submit *a Notification of Overseas Trip* to Student Affairs Team.

Students who travel abroad for two months or more to study or do research must obtain permission from their advisor first and submit the necessary form(s) at least one month before the scheduled date of departure to the Student Affairs Team.

When you take a leave of absence and go abroad

- ◇ Follow all the procedures required for a leave of absence. The period of being abroad will NOT be counted as part of the limit on degree completion and length of enrollment.
- ◇ Only when the reason to take a leave of absence is to study and/or research at a foreign educational/research institution, students may request to have that coursework evaluated for up to a maximum of fifteen (15) units of a master’s course and a doctoral course. All procedures are handled by the Student Affairs Team.

When you do not take a leave of absence and go abroad to study

- ◇ Students are required to submit to the Student Affairs Team *a Request Permission to Study or Research Abroad* after obtaining the approval stamp from your advisor. In addition, you must also submit a written acceptance letter from the foreign educational/research institution where you will study/research.
- ◇ Approval of this form of study is generally limited to a maximum of one (1) year. The period of study overseas will be counted as part of the limit on degree completion and length of enrollment.
- ◇ Students who take courses in their field of study at a foreign university, etc. may request to have that coursework evaluated for up to a maximum of fifteen (15) units of a master’s course and a doctoral course. All procedures are handled by the Student Affairs Team.
- ◇ Students must pay tuition even while attending a foreign university.

When you do not take a leave of absence and go abroad to do academic research at a foreign institution

- ◇ Students are required to submit a written form of *an Application for Going Abroad* to the Student Affairs Team and after obtaining the approval stamp from your advisor one month in advance. In addition, you must also submit a written acceptance letter from the foreign educational /research institution where you will study/research.

- ◇ The total of each period of being abroad is generally limited to half of the time limit of degree completion, that is, one year for master students and eighteen months for doctoral students. The period overseas will be counted as part of the limit on degree completion and length of enrollment.
- ◇ Students must pay tuition even while attending a foreign university.
- * In all of the cases described above, students must inform the Student Affairs Team of their address overseas before departure, and must file a notice of residence (*zairyuu todoke*) at the local Japanese embassy or consulate after arriving at their overseas destination. The procedure to go abroad includes the submission of an application form for going abroad, research plans and schedules of the research (an A4, free format.)

Required Documents

Objective	Required Documents
Overseas travel or going back home (overseas) for a short period	"Notification of Overseas Trip"
Requesting leave of absence	"Request for Leave of Absence" and the documents explaining the reasons
Studying abroad	"Request for Permission to Study Abroad", and a written acceptance letter from the host institution
Visiting overseas for academic purpose	"Application for Going Abroad", "Research Plan", and "Schedule of Research" (A4, free format)

The OSSMA (Overseas Student Safety Management Assistance) Service

For students who are travelling overseas for study purposes while affiliated with the University of Tokyo (UTokyo), UTokyo introduces the OSSMA (Overseas Student Safety Management Assistance) Service operated by Emergency Assistance Japan Co. Ltd. It is recommended that you apply for OSSMA at least one month before you travel.

Important:

- * You have to pay your own individual member fee in principle.
- * The OSSMA service is a support service to manage the safety of students while overseas which requires advance payment of membership fees, and is not an insurance service. Please be aware that medical costs such as hospital fees, examination fees and counseling fees etc. are the responsibility of each member. Therefore, travel insurance must be obtained along with this service.
- * Applicants for OSSMA are required to register the travel insurance details, expected date of return etc. through the members-only website.

When recipients of JASSO loan go abroad for study

If you are receiving a loan from JASSO and wishing to keep receiving the loan while studying abroad on a leave of absence, you will need to submit a request form (Ryugaku shougakukin keizoku negai/todoke) to the HQ office in charge of JASSO. The submission must be made by the 20th of the month prior to departing.

If you wish to stop receiving a loan from JASSO while studying abroad, you will need to submit request form (Idoh-negai/todoke) to the HQ office in charge of JASSO. The submission must be made by the 20th of the month prior to the leave of absence.

Recipients of loan from JASSO, who study abroad while receiving financial support from the JASSO Study Abroad Support Program or the Study Abroad Initiative Tobitate Program, are eligible to apply to continue the loan by notifying the HQ office in charge of JASSO of the following 3 items.

- 1) period of support that you will obtain from the JASSO Study Abroad Support Program or the Study Abroad Initiative Tobitate Program,
- 2) period of your study abroad (start and end dates), and
- 3) a copy of acceptance letter which describes your status given by your host institution and study period, issued by your host institution (university or graduate school only). If it is not in Japanese, attach a Japanese translation.

If you wish to study abroad without taking a leave of absence and continue receiving the JASSO loan, there is no

specific procedure you need to do. However, please be sure to complete the extension procedure, which is usually need to be done in December or January every year.

JASSO provides loans based on the number of months of your study period. Please note that a loan may be withheld until an extension process is completed.

Procedures for Extending Period of Enrollment

- ◇ Students who would like to extend their length of enrollment must consult their advisor first. After that, you must fill in the proper request form, and return the form with the approval from your advisor and the head of your department at least one (1) month in advance: by the end of February for an extension from April, and by the end of August for an extension from October.
- ◇ Requests will *not* be accepted if the student's tuition payments are in arrears, or if approval from the advisor has not been obtained. Note that the form must be submitted every year.

Procedures for Withdrawing from the University

- ◇ Students who would like to withdraw from GSFS are required to consult their advisor first. After that, you must fill in the proper request form, and return the form with the consent from your advisor and the head of your department at least one (1) month in advance.
- ◇ Requests will *not* be accepted if the student's tuition payments are in arrears, or if consent from the advisor has not been obtained.
- ◇ If you are receiving a loan from JASSO and wish to withdraw from the university, you need submit a request form (Idoh-negai/todoke) to the HQ office in charge of JASSO in order to stop the loan. The submission must be made by the 20th of the month prior to withdrawal.

Contact information

Student Affairs Team, Graduate School of Frontier Sciences

Tel: 04-7136- 4008, 4009 (ext. 64008, 64009)

Fax: 04-7136-4010 (ext. 64010)

E-mail: k-kyomu@adm.k.u-tokyo.ac.jp

Office Hours: 10 am- 12 noon, 1 pm-4 pm (except Saturdays, Sundays, and national holidays)

*Reception Counter may be closed earlier as a measure against COVID-19.

**Please be sure to clarify your name and student ID number (starts with 47) when you email us.

The remaining part of the original Japanese version explains classes and units that students must obtain for a teaching license in Japanese secondary schools.

If you are interested in becoming a teacher at junior high school or high school, please refer to the Japanese version available at the Student Affairs Team.