Sophia University

2026-2027

FACULTY OF SCIENCE AND TECHNOLOGY

Objectives of Education and Research

To have students gain academic knowledge of a specialized field as their foundation and acquire “combined intelligence,” which is characterized by a wide range of knowledge that would enable them to view other fields objectively, through art-science integrated education, so that they can contribute to solving various problems in today’s highly diversified society.

Objectives of Human Resource Development

To foster human resources who can contribute to “scientific and technological development” by solving various problems in today’s highly diversified society with a broad vision acquired through knowledge of a specialized field and “combined intelligence”.

Diploma Policy

The Faculty of Science and Technology aims to foster human resources who have gained understanding of the Christian humanism spirit and have acquired the ability to solve, with a broad and international perspective, the various scientific and technological issues challenging today’s highly diversified society, and who can pursue original research based on high ingenuity and creativity and thus contribute to the further advancement of science and technology. With a view to this aim, each department sets standards for the skills and knowledge students should have acquired upon graduation as described herein. Those who have fulfilled the requirements and have passed the thesis defense will be awarded a diploma.

Curriculum Policy

In accordance with the diploma policy, the Faculty of Science and Technology constructs its curriculum as follows:

1. To acquire fundamental abilities to solve science and technology issues from a broad international perspective through coursework in lecture-based Faculty of Science and Technology Categories I and II General Courses which students should commonly take.
2. Based on the above, to acquire specialized abilities through Departmental Core Courses centered on seminars and laboratory classes and to acquire the ability to pursue research with originality through Specialized Courses characterized by higher expertise.

*The English translation of objectives and policies of the faculty and departments are provided for information, and the original Japanese version remains the sole official version. If there is any discrepancy between the two versions, the Japanese original should take precedence.

For all English Program Students

1.Organization of the Faculty of Science and Technology

The Faculty of Science and Technology aims to provide students with “cross-disciplinary understanding” that integrates “science” and “technology”. With its motto being “human and environmental support,” the Faculty seeks to produce graduates who are able to take active steps toward realizing human societies that thrive in harmony with nature. It aims to nurture in students the ability to adapt to today’s knowledge-based societies. To this end, the Faculty is made up of the following three departments:

1. Department of Materials and Life Sciences
2. Department of Engineering and Applied Sciences
3. Department of Information and Communication Sciences

Each department offers a variety of unique educational programs. The Department of Materials and Life Sciences aspires to impart to students “new and innovative ways to explore materials that are in harmony with nature”; the Department of Engineering and Applied Sciences endeavors to teach students “ways to create materials and devices that will greatly benefit both global and human environments”; and the Department of Information and Communication Sciences seeks to offer students “an in-depth understanding of humans and society through information”.

To meet the diverse needs of internationalization, the Faculty added two new programs taught entirely in English as part of its regular curriculum in September 2012. Students enrolled in those programs are required to complete all courses, take examinations, submit reports, undergo research guidance, and submit their undergraduate thesis in English.

In this Faculty, classes are divided into General Studies courses (Zengaku Kyotsu Kamoku) and Specialized Education courses (Gakka Kamoku). Students must take classes that satisfy all of the requirements for their particular programs. However, since the university is a place where students gain academic knowledge through studying, it is important for students to play an active role in planning the content of their own study programs and take full responsibility for their own learning.

2.General Studies (Zengaku Kyotsu Kamoku)

At Sophia University, University-wide General Studies are designed for students to acquire the abilities necessary for various studies. In addition to learning the spirit of “Christian Humanism” that underlies all Sophia University education, students will cultivate the ability to identify issues, formulate questions, and solve problems from multiple perspectives with a wide range of knowledge. The purpose is to create a foundation for students to continue learning throughout their lives and to contribute to the realization of a better world as people who live “for others, with others.”
University-wide General Studies courses are structured into categories by topics and in multiple levels. The students are expected to take these courses throughout their undergraduate studies in order to expand the depth and the width of their learning.
Refer to the General Studies section for further details.

3.Language

For students studying science and technology at the university level, there is an increasing need to acquire the ability to read textbooks and other documents as well as to present the results of their research in various languages. Furthermore, once they graduate, various languages will play an even more important part in their lives, no matter what career path they choose to specialize in. This stems from the international nature of science and technology, and the trend will increase in the future. However, various languages are not only important

for practical reasons, but will also help students to develop a rich body of knowledge and ways of thinking, which are essential qualities for scientists and technological experts.

This university serves as a bridge among countries, with teams of excellent instructors to provide students with foreign language guidance. We invite students to take full advantage of the opportunities provided by this superlative learning environment. To avoid having regrets in the future, we encourage students to master various languages while they are at university and their memory is still sharp.

“Academic Skills 1 and 2” are compulsory courses. From Academic Year 2022, Critical Thinking and Discussion became a compulsory course as well. Please see "Language (ACADEMIC SKILLS / ACADEMIC WRITING)".

In addition, for those wishing to take Japanese or any other language course, up to 8 credits from such courses can be included in their graduation requirements for an elective course in General Studies (Zengaku Kyotsu Kamoku).

4.Specialized Education (Gakka Kamoku)

There are four types of Specialized Education (Gakka Kamoku): 1), 2) Faculty of Science and Technology Common Subject Group I and II (which are required for all students in the Faculty of Science and Technology), 3) Core Courses that form the main course groups of each department and 4) Specialized Courses offered by each department. Among these are compulsory courses, compulsory elective courses, elective courses, and optional courses. Optional courses are courses for which credits do not count towards graduation.

For the Faculty of Science and Technology Common Subject Group I and II, students are not permitted to enroll in courses other than those included in the English program (i.e., courses in Japanese). Even if students take courses from Common Subject Group I and II offered for the Japanese-taught program (理工共通科目I群、II群), their credits cannot be counted for the graduation requirements. However, for the Core Courses and Specialized Courses, students are permitted to enroll in courses other than those included in the English Program.

1) Faculty of Science and Technology Common Subject Group I

The Faculty of Science and Technology Common Subject Group I includes introductory courses related to science and technology that aim to broaden students’ knowledge of these fields.
This group includes “English for Science and Engineering”.

2) Faculty of Science and Technology Common Subject Group II

This group contains courses that students are required to take in preparation for Core Courses and Specialized Courses.
Students can transfer surplus credits from compulsory elective courses to elective courses in the Faculty of Science and Technology Common Subject Group II.

3) Department Core Courses

Department Core Courses are the groups of courses that form the core curriculum for each department, including experiments, seminars, and graduation research.
Experiment-based and practical courses are merged with courses that are taught in Japanese by experienced teaching staff or international teaching assistants. Seminars and graduation research are supervised by faculty members who accept students.

4) Department Specialized Courses

Regarding elective courses among department courses, the number of credits that students are able to allocate from the elective courses of other departments in the Faculty of Science and Technology is up to half of the credits required for graduation.

5.Graduate School

The graduate school at this university offers master's degree programs and doctoral degree programs. Master's degree programs are two years in duration; upon completion students will earn a master's degree. Given that science and technology include many different fields, the graduate school provides students with a highly specialized education that is based on the knowledge acquired in their undergraduate studies. With advances in science and technology, there is an increasing demand for people to earn master's or doctoral degrees. Therefore, we invite students currently enrolled in undergraduate programs to consider continuing their studies at the postgraduate level.

Students who wish to enter the graduate program at Sophia University are able to take certain lectures in their fourth year under the system for graduate school pre-entrance course registration. The credits for the lectures will be admitted as effective credits within the defined limit upon entering the graduate program. Lectures that have been taken under the system for graduate school pre-entrance course registration will not be admitted as effective credits for the graduation of the undergraduate program. For further details of pre-graduate school credits, please consult with your Class Advisor, or Head of Graduate School.

6.Qualifications

By taking the required courses and graduating from one of the departments in this faculty, students can obtain a number of qualifications which may serve as prerequisites for test(s) and/or obtaining licenses (in Japanese language). Please refer to the Academic Handbook (履修要覧) for more details on the main qualifications.

7.Faculty of Science and Technology Early Graduation System

The Faculty has an early graduation system in place for students who wish to enroll in a master's program offered by the university as their first priority and thereafter enroll in a doctoral program of the university. Early graduation refers to graduation for students who have spent three years or more at the university (excluding periods of leave of absence from the university) and fulfilled the prescribed procedures, and will graduate upon completion of their 3rd year (six semesters) or the first half of their 4th year (seven semesters).

1) Qualifications and Procedures for Requesting Early Graduation

1)-1 Students who have met the following conditions upon completion of their 2nd year are eligible to apply for early graduation registration:

【For students who entered in and after 2024】

(1) Have obtained 22 credits or more that count toward graduation from General Studies (Zengaku Kyotsu Kamoku) and have obtained 4 credits or more that count toward graduation from Language, including all the compulsory courses in their 1st year;
(2) Have obtained 62 credits or more that count toward graduation from Specialized Education (Gakka Kamoku), including all compulsory courses in their 2nd year;
(3) Have a GPA for all the university-wide courses and Specialized Education (Gakka Kamoku) of 3.65 or higher (numeric value in transcript).

【For students who entered from 2022 to 2023】

(1) Have obtained 22 credits or more that count toward graduation from General Studies (Zengaku Kyotsu Kamoku) and have obtained 4 credits or more that count toward graduation from Language, including all the compulsory courses in their 1st year;
(2) Have obtained 60 credits or more that count toward graduation from Specialized Education (Gakka Kamoku), including all compulsory courses in their 2nd year;
(3) Have a GPA for all the university-wide courses and Specialized Education (Gakka Kamoku) of 3.65

or higher (numeric value in transcript).

【For students who entered in 2021 and before】

(1) Have obtained 24 credits or more that count toward graduation from General Studies (Zengaku Kyotsu Kamoku) and have obtained 4 credits or more that count toward graduation from Language, including all the compulsory courses in their 1st year;
(2) Have obtained 60 credits or more that count toward graduation from Specialized Education (Gakka Kamoku), including all compulsory courses in their 2nd year;
(3) Have a GPA for all the university-wide courses and Specialized Education (Gakka Kamoku) of 3.65 or higher (numeric value in transcript).

【For all students】

1)-2 The application procedures for early graduation registration are as follows:
(1) Receive guidance from the department chair regarding the application for early graduation registration at the end of the 2nd year.
(2) In addition to registering in Graduation Research 1, submit an Application for Early Graduation Registration, only if approval is obtained from the academic supervisor from whom students wish to receive guidance at the beginning of the 3rd year.
(3) Receive official approval for the Application for Early Graduation Registration from the above-mentioned academic supervisor for Graduation Research 1.

1)-3 Following application for early graduation registration as well as receiving guidance from their academic supervisor, students must submit periodic reports to their academic supervisor about their academic progress and receive appropriate guidance.

2) Evaluation for Early Graduation

Students who meet all of the following conditions are eligible to make a request for early graduation:
(1) The student in question wishes to graduate early and has registered a request for early graduation;
(2) At the time of early graduation, the student has obtained credits in all of the prescribed subjects required for graduation;
(3) At the time of early graduation, the student has a GPA in both university-wide subjects and Specialized Education (Gakka Kamoku) of 3.65 or above in grade transcript.

3) Withdrawal of Registration of Request for Early Graduation, and Changes to the Graduation Period

Students who wish to change the period in which they want to graduate following registration of a request for early graduation or who want to withdraw the request itself are required to complete the following procedures:
(1) For changes to the period of desired graduation, the student must receive official approval from their academic supervisor on Notification of Change of Early Graduation Date and submit it to the Chairperson of the department by the submission deadline for procedures.
(2) For withdrawals of requests for early graduation, the student must receive official approval from their academic supervisor on Notification of Withdrawal of Registration of Request for Early Graduation and submit it to the Chairperson of the department by the submission deadline for procedures.

［Procedure］ *Please refer to the Loyola bulletin board for distribution of documents and other details

<table>
<tr><th>Documents to be submitted</th><th colspan="2">Submission period</th></tr>
<tr><td>Application for early graduation registration</td><td colspan="2">3rd year, from September 21 to October 20 (except university non-business days and holidays)</td></tr>
<tr><td>Notification of change of early graduation date</td><td colspan="2">Until the 3rd year spring semester or 2Q course registration period</td></tr>
<tr><td rowspan="2">Notification of withdrawal of application for early graduation registration</td><td>In the case of withdrawal of early graduation application after completing six semesters</td><td>Until 3rd year spring semester course withdrawal period or 2Q course
withdrawal period</td></tr>
<tr><td>In the case of withdrawal of early graduation application after completing seven semesters</td><td>Until 4th year autumn semester course withdrawal period or 4Q course
withdrawal period</td></tr>
</table>

GENERAL STUDIES

【For students who entered in or after 2022】

■ Compulsory Courses

All the compulsory courses are divided into designated timetables (blocks) for each department. The class and the registration code will be posted on the My Sophia. Students must check the My Sophia and register themselves during the registration period. The following courses are the compulsory General Studies courses.

Studies in Christian Humanism: For Others, With Others
Liberal Arts of the Body

Both “Studies in Christian Humanism: For Others, With Others” and “Liberal Arts of the Body” are Quarter courses, and students must take them in the designated block. Students must check their designated class on My Sophia.

Semester Offered	Day & Time
Autumn	Wed, 3

Students who are unable to attend the designated "Liberal Arts of the Body" due to mental or physical health issues or other reasons must visit the Center for Liberal Education and Learning office (bldg. No.2, 1F) or contact the office by email (sophia-geo-co@sophia.ac.jp) before the class starts to make an appointment to consult with the instructor. Please bring a medical certificate (a copy is acceptable) with you to the interview.

Critical Thinking & Discussion

“Critical Thinking & Discussion” is a semester course. Students must take the course in the designated block.

Semester Offered	Day & Time
Spring	Tue, 1 Fri, 1

Overview of Data Science

“Overview of Data Science” is a semester course. Students must take the course in the designated block.

Semester Offered	Day & Time
Spring	Thu, 5

Thinking about Issues, Perspectives, and Positionality

“Thinking about Issues, Perspectives, and Positionality” is a semester course. Students must take the course in the designated block.

“Thinking about Issues, Perspectives, and Positionality” is an *asynchronous course. Students must enroll themselves in “Thinking about Issues, Perspectives, and Positionality” on Moodle.

This course is graded either “P” or “X”.

Semester Offered	Day & Time
Autumn	Sat, 5

*Note

Students who fail a compulsory course in their first-year must retake the course in the second year or later. They may choose from all of the English-taught classes offered. They are lottery courses, and students should register during the lottery registration period.

■ Compulsory Elective Courses

Studies in Christian Humanism

Studies in Christian Humanism (Compulsory Elective Courses) must be taken in the third semester.

Course List

Registration CD	Semester offered	Course title	Cr.	Day & Time
GSCH0130	Autumn	STUDIES IN CHRISTIAN HUMANISM: PHILOSOPHY OF RELIGIOUS LANGUAGE	2	Tue, 5
GSCH0331	Autumn	STUDIES IN CHRISTIAN HUMANISM: BIBLICAL FOUNDATIONS AND CONTEMPORARY APPLICATIONS	2	Tue, 5
GSCH0390	Autumn	STUDIES IN CHRISTIAN HUMANISM: PRACTICAL WISDOM- A JESUIT PERSPECTIVE	2	Tue, 5

Students should register for these courses during the **lottery registration period**. For details, See p.Guide30.
Students who fail "Studies in Christian Humanism (Compulsory Elective Courses)" must re-take the course in their third year or later. They must register for the course in either Block B or Block F. Registration is not permitted during the lottery-based entry period; students may register only after the period has closed. They must select a class with available seats during the first-come, first-served registration period.
If a student earns more than the required credits for Studies in Christian Humanism Courses, they will count towards as General Studies Elective Courses.

Advanced General Education Courses

Students must take 4 credits from the Advanced General Education courses listed in the University-wide General Studies courses in your junior / senior years. (cf.履修要覧〔学部科目編〕全学共通科目)

Notes on Advanced General Education Courses for FST Students

All Students must take at least 4 credits of "Advanced General Education Course" as a part of General Studies Compulsory Electives.

- Students may take the Advanced General Education Course from the fifth semester (ie. their first semester of junior year).
- If students take more than 4 credits of Advanced General Education Courses, it will be counted as General Studies Electives courses.
- Most of the Advanced General Education Courses are lottery courses. Students must enter during the Lottery entry period. Students may be selected for 2 courses in maximum per semester, and you can register more courses by first-come-first-served base.
- For lottery courses of "Advanced General Education Course", students will not get accepted into more than two course per semester.

If a student earns more than the required credits for Advanced General Education Courses, they will count towards as General Studies Elective Courses.

【For students who entered before 2022】

■ Health and Physical Education

Students who have not earned credits for “Wellness, the Body and Culture” must take “Wellness, the Body and Culture” (*Asynchronous classes).
*Asynchronous classes are delivered in video lectures, slides, or other asynchronous formats.

Students who entered before 2022 may take any of the following semesters.

Semester Offered	Day & Time
Autumn	Sat, 6
Spring	Sat, 6

■ Studies in Christian Humanism

Two courses in the category “Studies in Christian Humanism” (キリスト教人間学) for a total of 4 credits are compulsory for all students who are enrolled in the FST. Normally, students must take one course in their first semester and another in the second semester.

Course List

Registration CD	Semester offered	Course title	Cr.	Day & Time
GSCH0130	Autumn	STUDIES IN CHRISTIAN HUMANISM: PHILOSOPHY OF RELIGIOUS LANGUAGE	2	Tue, 5
GSCH0331	Autumn	STUDIES IN CHRISTIAN HUMANISM：BIBLICAL FOUNDATIONS AND CONTEMPORARY APPLICATIONS	2	Tue, 5
GSCH0390	Autumn	STUDIES IN CHRISTIAN HUMANISM: PRACTICAL WISDOM-A JESUIT PERSPECTIVE	2	Tue, 5
GSCH0040	Spring	STUDIES IN CHRISTIAN HUMANISM: PHILOSOPHY OF THE HUMAN PERSON	2	Tue, 5
GSCH0330	Spring	STUDIES IN CHRISTIAN HUMANISM：BIBLICAL FOUNDATIONS AND CONTEMPORARY APPLICATIONS	2	Tue, 5

These courses are designated as Lottery courses; however, students under the former curriculum are not permitted to register during the lottery registration periods. They may register only after the lottery periods have closed and must select a class with available seats during the first-come, first-served registration period. Students can register for these courses during the **lottery registration period (first-come-first-served basis)**.
For details, see p.Guide30.
If a student earns more than the required credits for Studies in Christian Humanism Courses, they will be regarded as General Studies Elective Courses.

■ Advanced General Education Courses

Students must take 2 credits from the Advanced General Education courses listed in the University-wide General Studies courses in your third / fourth years. (cf.履修要覧〔学部科目編〕全学共通科目)

Notes on Advanced General Education Courses for FST Students

All Students must take at least 2 credits of “Advanced General Education Course” as a part of General Studies Electives.

- Students may take the Advanced General Education Course from the fifth semester (ie. their first semester of junior year).
- If students take more than 2 credits of Advanced General Education Courses, it will be counted credits as General Studies Electives courses.
- Most of the Advanced General Education Courses are lottery courses. Students must enter during the lottery entry period.
- For lottery courses of "Advanced General Education Course", students will not get accepted into more than two course per semester.

If a student earns more than the required credits for Advanced General Education Courses, they will be regarded as General Studies Elective Courses.

【All Students】

■ Elective Courses

First Year - Student may take up to 4 credits of General Studies Elective Courses each semester .(only for students who entered in or after 2022)

Students may take courses from programs offered by Faculty of Liberal Arts. They must choose the courses either from 100~200 level courses offered by FLA or the Japanese Language Program. Note that only up to 8 credits are approved for courses from Language Programs. Students may also take any courses listed in the University-wide General Studies course as Zengaku kyotsu kamoku (全学共通科目). (cf.履修要覧)

■ List of Courses　(General Studies Elective Courses offered by FLA)

AHST2510	Development of Japanese Civilization 1
AHST2520	Development of Japanese Civilization 2
AHST2610	History of Chinese Civilization
ASOC2010	Introduction to Sociology
ASOC2250	Introduction to Japanese Society
ASOC2260	The Good Life: from Self to Society
AANT2020	Introduction to Cultural and Social Anthropology
AANT2200	Anthropology of Japan
AANT2030	Nature and Culture
AART2010	Introduction to Art History/Visual Culture 1
AART2500	Introduction to Art History/Visual Culture 2
ALIT2010	Literary Genres
ALIT2310	Introduction to Japanese Literature
ARPH2010	Introduction to Philosophy
ARPH2020	Fundamentals of Religion
AIBE2001/2002	Principles of Microeconomics
AIBE2011/2012	Principles of Macroeconomics
APOL2010	Theories and Themes of Contemporary Politics
APOL2050	Introduction to International Relations
APOL2100	Introduction to Comparative Politics
APOL2150	Controversies in Globalization
ACOM221A/B	Computer Studies 1*
ACOM222A/B	Computer Studies 2*
AENV1310	Environmental Issues 1
AGEO2020	Geography

AMTH1010	College Mathematics
AMTH1111/1112	Mathematics and Statistics for Business and Economics

*N.B. The courses with asterisk carry 2 credits each. Other courses listed are 4 credits each.

■ SAIMS Program Courses

☆ The Sophia AIMS Program (SAIMS) is a trans-disciplinary program focusing on “Human Development”, and its main theme is “Human Ecology: Diversity and Connectivity of Society and Nature”. Students from ASEAN countries and Japan will study together in the program that combines the disciplinary frameworks of natural sciences, social sciences, and humanities. All courses are conducted in English (TOEFL iBT79 or its equivalent level is required).
The SAIMS program participants are strongly recommended to take at least one of these courses before or after studying abroad under the SAIMS program.

Registration CD	Semester offered	Course title	Cr.	Instructor	Remarks
GSS20500	Spring	CONSERVATION	2	SUGIURA Mikiko	[100]
GSS20510	Spring	ENVIRONMENTAL SCIENCE	2	SUGIURA Mikiko	※, [100]
GSS20520	1Q	SUSTAINABLE DEVELOPMENT	2	SUGIURA Mikiko	※, [100]
GSS20501	Autumn	CONSERVATION	2	SUGIURA Mikiko	[100]
GSS20511	Autumn	ENVIRONMENTAL SCIENCE	2	SUGIURA Mikiko	※, [100]
GSS20521	3Q	SUSTAINABLE DEVELOPMENT	2	SUGIURA Mikiko	※, [100]

[ ]＝Lottery Courses. Number in brackets is the capacity.

※ Green Science and Green Engineering students (FST English Course Students) can include these courses into their Departmental Specialized Education.

Language

【ACADEMIC SKILLS / ACADEMIC WRITING】

■ Course Details

ACADEMIC WRITING 1 (AW1)

In this course, students will develop the academic writing skills necessary to write effective essays for undergraduate classes in English. The course will take a task-based, learning-through-doing approach to writing, including developing thesis statements, finding, evaluating, and synthesizing academic sources, and discussing written work in seminar discussions. Students will write about topics of their choosing (e.g. modern society in Japan). Classes will consist of input on academic writing skills from the teacher, in-class writing exercises and practice, teacher and peer feedback on students' written work, and presentation and discussion of students' assignments.

ACADEMIC WRITING 2 (AW2)

This course will build on and further develop the academic writing skills learned in Academic Writing 1. To do so, students will create a research proposal for a research project involving data collection on a topic of their choosing. This will require students to gain a strong understanding of the theoretical and practical elements involved in carrying out academic research in their field. In order to develop a research question, background, and literature review for their tropic, they will draw from academic sources with a focus on critique as well as summary and description. They will also pilot data collection methods in order to create a strong research design and methodology. In addition, they will share their research proposal at two stages of development: the first will be an oral presentation on their chosen topic through research questions, motivation, and background; the second will be a poster presentation of the final version of their research proposal.

CRITICAL THINKING & DISCUSSION

In this course, students will develop the critical thinking and discussion skills they need to perform well academically as undergraduates and beyond. They will learn key concepts in critical thinking and practice applying them by closely engaging with a variety of texts on specific topics (e.g. education, society, technology) through writing tasks and interaction with their classmates in the form of extended academic discussions. Through this process, students will also reflect on their own thinking processes and skills. Most in-class work will be based around discussions of the various texts and topics, with input and guidance from the teacher on academic discussion skills. Students will also learn how to demonstrate their critical thinking skills in these discussions.

■ Registration Rules

【For students who entered from 2020】

・ACADEMIC WRITING must be taken in the following sequence:

ACADEMIC WRITING 1 (Autumn)	→	ACADEMIC WRITING 2 (Spring)

＊ Students cannot register for the next course if they have not completed the previous course. (If students have not passed AW1, they cannot register for AW2. If they are not able to fulfill the course requirements, they have to re-register for AW1 in the following Autumn semester.)

＊ Students cannot register for the same course which they have already passed.

・Students must take all courses and complete 4 credits. (2 credits / course)

・ACADEMIC WRITING is counted as a Compulsory Language Course.

・No withdrawals are allowed for these courses.
・Students should register for these courses during the registration period. Students are required to take designated classes, which will be announced on the My Sophia Bulletin Board at 3 pm on September 24 for ACADEMIC WRITING 1 and at 3 pm on April 7 for ACADEMIC WRITING 2.

【CRITICAL THINKING & DISCUSSION (Spring)
(Only for the students who entered in and after 2022)】

・CRITICAL THINKING & DISCUSSION is counted for the category of "THE ART OF THINKING AND EXPRESSON".
・No withdrawals are allowed for these courses.
・Students should register for these courses during the registration period. Students are required to take designated classes. The designated classes will be announced on the My Sophia Bulletin Board at 3 pm on April 7.

As for the attendance rules, see the "Attendance policy" below. For any detail of designated classes, please check My Sophia Bulletin Board (Language courses・LLC), at the beginning of each semester. The announcement will be done by April 7 (Tue) in the Spring semester and by September 24 (Thu) in the Autumn semester. This is also the case with repeaters (i.e. those students who have been absent from any semester and have studied abroad).

【LANGUAGES OTHER THAN ENGLISH】

■ IMPORTANT RULES FOR LANGUAGE COURSES

"First foreign language" refers to a language other than English and Japanese that students study at the university for the first time. Thus, when students have either studied or used the particular language prior to the enrollment of the course and their proficiency in the language exceeds the course goals and learning objectives, students will not be able to register for the course. If students register without permission for a course which does not match their ability, the registration will be terminated even during the semester. Under the following circumstances listed below, students who wish to register for a particular language course must apply for the "Placement Test" (refer to p.FST16 –) in order to be placed into a course appropriate to their proficiency. The "Placement Test" will be held at the beginning of each semester. Students who fail to take the test will not be able to register for the language course during that particular semester. For information on language courses that do not hold the "Placement Test" (Russian, Portuguese, Latin, Asian and African Languages), be sure to check the information posted on the My Sophia, From University, "Language/ LLC" before the course registration period of each semester.
This applies to students who have:
・studied the language before enrolling in university
・a family member who is a speaker of the language, and they are exposed to the language on a daily basis either lived or studied in a place where the language is used
・have experience of using the language for reasons not stated above

Students are allowed to take up to 2 credits per language each semester. This limitation does not apply to advanced courses, optional courses, Short-term Language Programs during spring/summer vacation and Japanese offered by the CLER.
The chosen language must be taken in the correct sequence. (Russian, Portuguese, Latin, Asian and African Languages courses start from the spring semester.)
In principle, language courses cannot be taken repeatedly unless otherwise mentioned. Chinese, French, Spanish, German, Italian and Korean 1 credit advanced courses (上級科目 ADVANCED A to H or A to O) can be taken repeatedly as long as the courses are taught by different teachers. However, ADVANCED [INTEGRATED SKILLS] cannot be taken more than once. This rule also applies to the students who are placed

in higher level courses.
When students take advanced courses, they can start from any advanced courses except for Japanese.
FST students who wish to study a language course as GS, may register for any available courses from the lottery registration period (first-come-first-served basis). For details, please refer to p.Guide30. about course registration procedure and schedule.

■ COURSE REGISTRATION FOR CHINESE, FRENCH, and SPANISH

For basic and intermediate courses, students should take courses offered for students of English-Taught Programs. Advanced courses are offered for students of all faculties.
For French and Spanish, students have the option of taking 1 credit advanced courses (上級科目 ADVANCED A to H or A to O) in addition to ADVANCED [INTEGRATED SKILLS] A to D. Please refer to the pages on the *Gogaku Kamoku*(語学科目) in "2026 Academic Handbook (2026 年度履修要覧〔学部科目編〕/2026 *Rishū Yōran*)" for more information.
*As for Chinese, only 1 credit advanced courses (上級科目 ADVANCED A to H) are offered.

■ COURSE REGISTRATION FOR OTHER LANGUAGES

Please refer to the pages on the *Gogaku Kamoku*(語学科目) in "2026 Academic Handbook (2026 年度履修要覧〔学部科目編〕/2026 *Rishū Yōran*)" for more information.

■ PLACEMENT AT HIGHER LANGUAGE LEVEL

・Chinese, French, Spanish German, Italian, Korean
Students who have previously studied or used the language of the course they are registering for must take the Placement Test. If they have studied the language in a Short-term Language Program during spring/summer vacation and wish to take a language course at a higher level, they must also take the Placement Test.

●Take the Placement Test
The Placement Test will be conducted at the beginning of each semester. Students must take a course at the level they were placed in as a result of the test.
The information for the Placement Test will be posted on My Sophia, From University "Language / LLC" before the course registration period of each semester.
How the test will be conducted will differ depending on the language the students take.
Once students are placed in a level after the test, they are not able to change the level. Also, students may not take the Placement Test with the purpose of being placed in a level lower than the current level.

・Russian, Portuguese, Latin, Asian and African Languages
Students who have studied or used the language prior to enrollment must refer to the information posted on My Sophia, From University "Language / LLC" before the course registration period of each semester. With permission from the instructor in charge of the course, students may enroll in an intermediate level course. Before the first class, students must pick up the CLER course registration form from the Center for Academic Affairs. Students who receive permission must submit the form, signed by the instructor, to the Center for Academic Affairs during the course registration period. If students' proficiency in the language exceeds the course goals and learning objectives, students will not be able to register for the course.

■ OPTIONAL COURSES

＜Culture Courses (文化), Language and Culture courses (ことばと文化) , Seminar courses (演習) and Kentei Taisaku course(検定対策)＞
Optional Courses for Chinese, French, Spanish, German, Italian and Korean can be counted as GS Electives up to 8 credits as well. If students wish to register for the optional courses, students are required to take a placement test at the beginning of the semester.

For more information, please refer to the pages on the *Gogaku Kamoku*(語学科目) in "2026 Academic Handbook (2026 年度履修要覧〔学部科目編〕)".

【Japanese Language Program】

The Center for Language Education and Research offers various levels of Japanese language courses. Students who need to use Japanese in daily life or wish to employ Japanese language proficiency in the workplace after graduation are encouraged to take Japanese language courses.

Students who wish to register for Japanese language courses should take the "Japanese Placement Test" (JPT) offered by CLER. Students will be assigned to the appropriate level and course according to the results of the test. Please note if students fail to take the test, they cannot take the Japanese course this semester.

*Students who have taken the JPT or any Japanese Language Courses at Sophia University before cannot take the JPT again. In these cases, register for the designated course on Loyola.

Students who have never studied Japanese do not need to take the placement test. Instead of taking the JPT, submit the application for JPN111 (JAPANESE 1) to the CLER office by the deadline. Students will be assigned to one of the sections of JPN111. If students fail to register for it, they cannot take the Japanese course in the relevant semester.

* Students who fall into one of the following cases and wish to take JPN111 this semester should also submit the application again to be assigned to one of the classes.
・students who submitted the application for JPN111 (JAPANESE 1) to the CLER office in or before the previous semester but did not register for the designated class
・students who registered for JPN111 but withdrew from the course
・students who failed JPN111

For details regarding the Japanese language program and course registration for Japanese, please refer to "Japanese Language Program" brochure issued by CLER. Also check My Sophia, From University "Language/ LLC" for information.

【Attendance policy】

In language courses offered by the Center for Language Education and Research (CLER), students are required to attend the following number of classes as listed below. Class attendance is essential for students' learning and is considered a minimum condition for gaining credits for the course. A final grade will be considered based on the evaluation criteria stated in the syllabus of each course, only if the number of required attendances has been met.
Meeting the attendance requirement does not guarantee passing course units. The number of required attendance is a minimum condition and any absences and/or tardies will affect the student's grade.
Attendance will be counted from the first class meeting. When a student attends a class in the first week but decides to withdraw from the course and registers for a course with a different registration code, the attendance from the previous course(s) will not be transferred to the newly registered course.
The CLER does not allow absences except for the below. Therefore, job hunting, any events related to seminar or extracurricular activities, transportation delays and bereavement leaves are not included. Students should attend classes regularly in case of any sudden illnesses or any reasons other than the "Special Consideration" cases.

*For Attendance Policy of Japanese Language Courses, please refer to the "Japanese Language Program" brochure.

・**Twice-a-week courses**

The total number of class sessions: **28 per semester**

The number of attendances required: At least 23 per semester

- Special Consideration

In any of the following conditions, neither your attendance nor absence will be counted. If applicable, please ask your instructor if you can receive this special treatment.

For up to three weeks, the special treatment will apply. As for the period of absence that goes beyond three weeks, regardless of the reasons you may have, the special treatment will not apply. In addition, if the absence is due to two or more circumstances stated below and exceeds three weeks, special consideration will not cover those additional days. Please ask your instructor about the required number of attendance when the special consideration is granted. If your instructor gives you an assignment to make up for your absence, submission of the assignment becomes the prerequisite for receiving the special consideration. The following apply to the special treatment.

1. A case of illness or injury where you submit a medical certificate indicating the necessary period of sick or injury leave (*1). In the case of an infectious disease as defined by the School Health and Safety Act, either a medical certificate or a “Doctor’s Permission to Return to Campus (Toko Kyoka Sho)” using the designated university form is acceptable.
2. When you join the annual Jo-Nan competition and submit an official certificate of participation
3. When you have been officially assigned to lay judge (裁判員/Saiban-in/) and must assume the duty
4. When you have been selected as a bone marrow donor candidate
5. When you submit a letter that confirms your attendance at teaching practice, volunteer experience study (介護等体験 /Kaigotou Taiken/), or museum practice
   The letter should be written by you, indicating the exact dates of your practice period. Refer to the regulations set by the Center for Teaching and Curator Credentials (教職・学芸員課程センター).

(*1) If it is impossible to specify periods of sickness or injury leave in your documentation for any reason, you should bring the relevant medical certificate and consult the CLER Office (Floor 5, Bldg. 6) as soon as possible. The deadlines for consultation at the CLER office are;

Friday, July 24 (Spring Semester) ／ Monday, January 25 (Autumn Semester)

- Late Arrival

Any student who fails to arrive within the first 30 minutes of a class will be regarded as being absent, even if he/she attends the rest of the class.

Course List (ACADEMIC WRITING 1/2, CRITICAL THINKING & DISCUSSION, ACADEMIC PRESENTATIONS) Offered by CLER

Registration CD	Course CD	Course Title	Cr.	Semester Offered	Instructor	Student Year	Numbering	Remarks
LENG1101	850097	ACADEMIC WRITING 1	2	AUT	GENTRY Reginald	1・2・3・4	ENG300-01e00	
LENG1102	850098	ACADEMIC WRITING 2	2	SPR	GENTRY Reginald	1・2・3・4	ENG301-01e00	
LENG1111	850097	ACADEMIC WRITING 1	2	AUT	WALKER Michael	1・2・3・4	ENG300-01e00	
LENG1112	850098	ACADEMIC WRITING 2	2	SPR	WALKER Michael	1・2・3・4	ENG301-01e00	
LENG1121	850097	ACADEMIC WRITING 1	2	AUT	MCEVOY Jason	1・2・3・4	ENG300-01e00	
LENG1122	850098	ACADEMIC WRITING 2	2	SPR	MCEVOY Jason	1・2・3・4	ENG301-01e00	
LENG1131	850097	ACADEMIC WRITING 1	2	AUT	KOVALYOVA Angelina	1・2・3・4	ENG300-01e00	
LENG1132	850098	ACADEMIC WRITING 2	2	SPR	KOVALYOVA Angelina	1・2・3・4	ENG301-01e00	
LENG1141	850097	ACADEMIC WRITING 1	2	AUT	SCHAEFER MATTHEW Yamato	1・2・3・4	ENG300-01e00	
LENG1142	850098	ACADEMIC WRITING 2	2	SPR	SCHAEFER MATTHEW Yamato	1・2・3・4	ENG301-01e00	
LENG1151	850097	ACADEMIC WRITING 1	2	AUT	CHAMBERS Garcia	1・2・3・4	ENG300-01e00	
LENG1152	850098	ACADEMIC WRITING 2	2	SPR	CHAMBERS Garcia	1・2・3・4	ENG301-01e00	
LENG1161	850097	ACADEMIC WRITING 1	2	AUT	MINEMATSU Aiko	1・2・3・4	ENG300-01e00	
LENG1162	850098	ACADEMIC WRITING 2	2	SPR	MINEMATSU Aiko	1・2・3・4	ENG301-01e00	
LENG1200	850099	ACADEMIC PRESENTATIONS	2	AUT	CHAMBERS Garcia	1・2・3・4	ENG310-01e00	①
LENG1210	850099	ACADEMIC PRESENTATIONS	2	AUT	SCHAEFER MATTHEW Yamato	1・2・3・4	ENG310-01e00	①
LENG1220	850099	ACADEMIC PRESENTATIONS	2	AUT	WALKER Michael	1・2・3・4	ENG310-01e00	①
LENG1230	850099	ACADEMIC PRESENTATIONS	2	AUT	BABULALL Alexander	1・2・3・4	ENG310-01e00	①
LENG1300	850100	CRITICAL THINKING & DISCUSSION	2	SPR	CHAMBERS Garcia	1・2・3・4	ENG320-01e00	
LENG1310	850100	CRITICAL THINKING & DISCUSSION	2	SPR	SCHAEFER MATTHEW Yamato	1・2・3・4	ENG320-01e00	
LENG1320	850100	CRITICAL THINKING & DISCUSSION	2	SPR	WALKER Michael	1・2・3・4	ENG320-01e00	
LENG1330	850100	CRITICAL THINKING & DISCUSSION	2	SPR	YOKOMOTO Katsuya	1・2・3・4	ENG320-01e00	
LENG1340	850100	CRITICAL THINKING & DISCUSSION	2	SPR	BABULALL Alexander	1・2・3・4	ENG320-01e00	
LENG1350	850100	CRITICAL THINKING & DISCUSSION	2	SPR	KOVALYOVA Angelina	1・2・3・4	ENG320-01e00	

Students must register for the designated class. The assingment result will be posted at My Sophia on April 7 / September 24.

① Only for SPSF students.

LANGUAGE COURSES (Except Japanese)
OFFERED BY THE CENTER FOR LANGUAGE EDUCATION AND RESEARCH

Registration CD	Course CD	Course Title	Cr.	Semester Offered	Instructor	Student Year	Numbering	Remarks
ACHN1011	CHN101	BASIC CHINESE 1	2	SPR	ZHANG Tong/Chen Hung-Lin*	1・2・3・4	CHN180-01m00	[26]
ACHN1012	CHN101	BASIC CHINESE 1	2	AUT	ZHANG Tong/Chen Hung-Lin*	1・2・3・4	CHN180-01m00	[26]
ACHN1021	CHN102	BASIC CHINESE 2	2	SPR	HUANG Wanting/LIAN Hong*	1・2・3・4	CHN190-01m00	[26]
ACHN1022	CHN102	BASIC CHINESE 2	2	AUT	HUANG Wanting/LIAN Hong*	1・2・3・4	CHN190-01m00	[26]
ACHN1031	CHN103	INTERMEDIATE CHINESE 1	2	SPR	SUN JING*/ZHOU Feng*	1・2・3・4	CHN280-01m00	[26]
ACHN1032	CHN103	INTERMEDIATE CHINESE 1	2	AUT	SUN JING*/ZHOU Feng*	1・2・3・4	CHN280-01m00	[26]
ACHN1041	CHN104	INTERMEDIATE CHINESE 2	2	SPR	ZHOU Feng*/SUN Jing*	1・2・3・4	CHN290-01m00	[26]
ACHN1042	CHN104	INTERMEDIATE CHINESE 2	2	AUT	ZHOU Feng*/SUN Jing*	1・2・3・4	CHN290-01m00	[26]
LCHN3030	850760	ADVANCED CHINESE A	1	SPR	HUANG Wanting	1・2・3・4	CHN301-01m00	①
LCHN3040	850761	ADVANCED CHINESE B	1	AUT	HUANG Wanting	1・2・3・4	CHN302-01m00	①
LCHN3050	850762	ADVANCED CHINESE C	1	SPR	ZHANG Tong	1・2・3・4	CHN303-01m00	①
LCHN3060	850763	ADVANCED CHINESE D	1	AUT	ZHANG Tong	1・2・3・4	CHN304-01m00	①
LCHN3070	850764	ADVANCED CHINESE E	1	Not Offered		1・2・3・4	CHN305-01m00	①
LCHN3080	850765	ADVANCED CHINESE F	1	Not Offered		1・2・3・4	CHN306-01m00	①
LCHN3090	850766	ADVANCED CHINESE G	1	Not Offered		1・2・3・4	CHN307-01m00	①
LCHN3100	850767	ADVANCED CHINESE H	1	Not Offered		1・2・3・4	CHN308-01m00	①
AFRN1012	FRN101	BASIC FRENCH 1	2	AUT	MEHRENBERGER Mana/ENARD Marc*	1・2・3・4	FRN180-01m00	[26]
AFRN101B	FRN101	BASIC FRENCH 1	2	SPR	MEHRENBERGER Mana/ENARD Marc*	1・2・3・4	FRN180-01m00	[26]
AFRN1021	FRN102	BASIC FRENCH 2	2	SPR	MEHRENBERGER Mana/ENARD Marc*	1・2・3・4	FRN190-01m00	
AFRN102B	FRN102	BASIC FRENCH 2	2	AUT	MEHRENBERGER Mana/ENARD Marc*	1・2・3・4	FRN190-01m00	
AFRN1032	FRN103	INTERMEDIATE FRENCH 1	2	AUT	DELMAIRE Gilles*	1・2・3・4	FRN280-01m00	
AFRN103B	FRN103	INTERMEDIATE FRENCH 1	2	SPR	DELMAIRE Gilles*	1・2・3・4	FRN280-01m00	
AFRN1041	FRN104	INTERMEDIATE FRENCH 2	2	SPR	DELMAIRE Gilles*	1・2・3・4	FRN290-01m00	
AFRN104B	FRN104	INTERMEDIATE FRENCH 2	2	AUT	DELMAIRE Gilles*	1・2・3・4	FRN290-01m00	
AFRN2210	FRN221	ADVANCED FRENCH (INTEGRATED SKILLS) A-1	1	SPR	SATO Laura*	1・2・3・4	FRN317-01m00	①
AFRN2220	FRN222	ADVANCED FRENCH (INTEGRATED SKILLS) A-2	1	SPR	POUPI Damien*	1・2・3・4	FRN317-01m00	①
AFRN2230	FRN223	ADVANCED FRENCH (INTEGRATED SKILLS) B-1	1	AUT	SATO Laura*	1・2・3・4	FRN318-01m00	①
AFRN2240	FRN224	ADVANCED FRENCH (INTEGRATED SKILLS) B-2	1	AUT	POUPI Damien*	1・2・3・4	FRN318-01m00	①
AFRN2250	FRN225	ADVANCED FRENCH (INTEGRATED SKILLS) C-1	1	Not Offered		1・2・3・4	FRN319-01m00	①
AFRN2260	FRN226	ADVANCED FRENCH (INTEGRATED SKILLS) C-2	1	Not Offered		1・2・3・4	FRN319-01m00	①
AFRN2270	FRN227	ADVANCED FRENCH (INTEGRATED SKILLS) D-1	1	Not Offered		1・2・3・4	FRN320-01m00	①
AFRN2280	FRN228	ADVANCED FRENCH (INTEGRATED SKILLS) D-2	1	Not Offered		1・2・3・4	FRN320-01m00	①
LFRN3810	850486	ADVANCED FRENCH A	1	Not Offered		1・2・3・4	FRN301-01m00	
LFRN3820	850487	ADVANCED FRENCH B	1	Not Offered		1・2・3・4	FRN302-01m00	

Registration CD	Course CD	Course Title	Cr.	Semester Offered	Instructor	Student Year	Numbering	Remarks
LFRN3830	850488	ADVANCED FRENCH C	1	Not Offered		1・2・3・4	FRN303-01m00	
LFRN3840	850489	ADVANCED FRENCH D	1	SPR	SATO Laura*	1・2・3・4	FRN304-01m00	
LFRN3850	850490	ADVANCED FRENCH E	1	AUT	SATO Laura*	1・2・3・4	FRN305-01m00	
LFRN3860	850491	ADVANCED FRENCH F	1	SPR	KITAMURA Ayako	1・2・3・4	FRN306-01m00	
LFRN3870	850492	ADVANCED FRENCH G	1	AUT	KITAMURA Ayako	1・2・3・4	FRN307-01m00	
LFRN3880	850493	ADVANCED FRENCH H	1	SPR	POUPI Damien*	1・2・3・4	FRN308-01m00	
LFRN3910	850494	ADVANCED FRENCH I	1	AUT	POUPI Damien*	1・2・3・4	FRN309-01m00	
LFRN3920	850495	ADVANCED FRENCH J	1	Not Offered		1・2・3・4	FRN310-01m00	
LFRN3930	850496	ADVANCED FRENCH K	1	Not Offered		1・2・3・4	FRN311-01m00	
LFRN3940	850497	ADVANCED FRENCH L	1	Not Offered		1・2・3・4	FRN312-01m00	
LFRN3950	850498	ADVANCED FRENCH M	1	Not Offered		1・2・3・4	FRN313-01m00	
LFRN3960	850499	ADVANCED FRENCH N	1	Not Offered		1・2・3・4	FRN314-01m00	
LFRN3970	850500	ADVANCED FRENCH O	1	Not Offered		1・2・3・4	FRN315-01m00	
ASPN1011	SPN101	BASIC SPANISH 1	2	SPR	HIROYASU Yoshimi/ VEGA Arturo*	1・2・3・4	HSP180-01m00	[26]
ASPN101A	SPN101	BASIC SPANISH 1	2	SPR	TORRES Guillermo* / VEGA Arturo*	1・2・3・4	HSP180-01m00	[26]
ASPN101B	SPN101	BASIC SPANISH 1	2	AUT	CERRA Pedro*/GARCÍA Carmen*	1・2・3・4	HSP180-01m00	[26]
ASPN1022	SPN102	BASIC SPANISH 2	2	AUT	HIROYASU Yoshimi/GARCÍA Carmen*	1・2・3・4	HSP190-01m00	[26]
ASPN102A	SPN102	BASIC SPANISH 2	2	SPR	PERAL GIGANTE Á lvaro*/ALASTRUEY Txabi*	1・2・3・4	HSP190-01m00	
ASPN102B	SPN102	BASIC SPANISH 2	2	AUT	VEGA Arturo*/ TORRES Guillermo*	1・2・3・4	HSP190-01m00	[26]
ASPN1031	SPN103	INTERMEDIATE SPANISH 1	2	SPR	QUIRÓS Ignacio/GARZÓN BRAVO Fran*	1・2・3・4	HSP280-01m00	[26]
ASPN103A	SPN103	INTERMEDIATE SPANISH 1	2	AUT	ALASTRUEY Txabi*/PERAL GIGANTE Álvaro*	1・2・3・4	HSP280-01m00	
ASPN1042	SPN104	INTERMEDIATE SPANISH 2	2	AUT	QUIRÓS Ignacio/GARZÓN BRAVO Fran*	1・2・3・4	HSP290-01m00	[26]
ASPN104B	SPN104	INTERMEDIATE SPANISH 2	2	SPR	BOCANEGRA Sheila*/ CERRA Pedro*	1・2・3・4	HSP290-01m00	
ASPN2110	SPN211	ADVANCED SPANISH (INTEGRATED SKILLS) A	2	SPR	PERAL GIGANTE Alvaro*/GARZÓN BRAVO Fran*	1・2・3・4	HSP317-01m00	①
ASPN2120	SPN212	ADVANCED SPANISH (INTEGRATED SKILLS) B	2	AUT	GARZÓN BRAVO Fran*/ PERAL GIGANTE Alvaro*	1・2・3・4	HSP318-01m00	①
ASPN2130	SPN213	ADVANCED SPANISH (INTEGRATED SKILLS) C	2	Not Offered		1・2・3・4	HSP319-01m00	①
ASPN2140	SPN214	ADVANCED SPANISH (INTEGRATED SKILLS) D	2	Not Offered		1・2・3・4	HSP320-01m00	①
LSPN3410	850569	ADVANCED SPANISH A	1	SPR	HIROYASU Yoshimi	1・2・3・4	HSP301-01m00	①
LSPN3420	850570	ADVANCED SPANISH B	1	AUT	HIROYASU Yoshimi	1・2・3・4	HSP302-01m00	①
LSPN3430	850571	ADVANCED SPANISH C	1	SPR	DONCEL Salomón*	1・2・3・4	HSP303-01m00	①
LSPN3440	850572	ADVANCED SPANISH D	1	AUT	DONCEL Salomón*	1・2・3・4	HSP304-01m00	①
LSPN3450	850573	ADVANCED SPANISH E	1	Not Offered		1・2・3・4	HSP305-01m00	①
LSPN3460	850574	ADVANCED SPANISH F	1	Not Offered		1・2・3・4	HSP306-01m00	①
LSPN3470	850575	ADVANCED SPANISH G	1	Not Offered		1・2・3・4	HSP307-01m00	①

Registration CD	Course CD	Course Title	Cr.	Semester Offered	Instructor	Student Year	Numbering	Remarks
LSPN3480	850576	ADVANCED SPANISH H	1	Not Offered		1･2･3･4	HSP308-01m00	①

[ ] = Lottery course. Number in brackets is the capacity.

Instructor's name with * = adjunct instructor

① = Offered every other year

For descriptions of the courses listed above, please refer to course syllabi on Loyola.

JAPANESE LANGUAGE PROGRAM (JLP)

The Center for Language Education and Research (CLER) offers multiple tracks and levels of Japanese language courses.
The type of course a student initially enrolls in will depend on their language background.
Placement into the JLP will be determined by the "Japanese placement test". Further information about the JLP can be found in the brochure "Japanese Language Program."

LANGUAGE COURSES (Japanese) OFFERED BY THE CENTER FOR LANGUAGE EDUCATION AND RESEARCH

Registration CD	Course CD	Course Title	Cr.	Semester Offered	Instructor	Student Year	Numbering	Remarks
※1	JPN111	JAPANESE 1	4	SPR	STAFF	1･2･3･4	JPN111-01e00	
※1	JPN111	JAPANESE 1	4	AUT	STAFF	1･2･3･4	JPN111-01e00	
※1	JPN150	JAPANESE M1	4	SPR	STAFF	1･2･3･4	JPN150-01e00	
※1	JPN150	JAPANESE M1	4	AUT	STAFF	1･2･3･4	JPN150-01e00	
※1	JPN112	JAPANESE 2	4	SPR	STAFF	1･2･3･4	JPN112-01e00	
※1	JPN112	JAPANESE 2	4	AUT	STAFF	1･2･3･4	JPN112-01e00	
※1	JPN200	JAPANESE M2	4	SPR	STAFF	1･2･3･4	JPN200-01j00	
※1	JPN200	JAPANESE M2	4	AUT	STAFF	1･2･3･4	JPN200-01j00	
※1	JPN211	JAPANESE 3	4	SPR	STAFF	1･2･3･4	JPN211-01j00	
※1	JPN211	JAPANESE 3	4	AUT	STAFF	1･2･3･4	JPN211-01j00	
※1	JPN250	JAPANESE M3	4	SPR	STAFF	1･2･3･4	JPN250-01j00	
※1	JPN250	JAPANESE M3	4	AUT	STAFF	1･2･3･4	JPN250-01j00	
※1	JPN212	JAPANESE 4	4	SPR	STAFF	1･2･3･4	JPN212-01j00	
※1	JPN212	JAPANESE 4	4	AUT	STAFF	1･2･3･4	JPN212-01j00	
※1	JPN321	ADVANCED JAPANESE 1	4	SPR	STAFF	1･2･3･4	JPN321-01j00	
※1	JPN321	ADVANCED JAPANESE 1	4	AUT	STAFF	1･2･3･4	JPN321-01j00	
※1	JPN326	ADVANCED JAPANESE 2	2	SPR	STAFF	1･2･3･4	JPN326-01j00	※3
※1	JPN326	ADVANCED JAPANESE 2	2	AUT	STAFF	1･2･3･4	JPN326-01j00	※3
※1	JPN327	ADVANCED JAPANESE ORAL COMMUNICATION	2	SPR	STAFF	1･2･3･4	JPN327-01j00	※3
※1	JPN327	ADVANCED JAPANESE ORAL COMMUNICATION	2	AUT	STAFF	1･2･3･4	JPN327-01j00	※3
※1	JPN214	INTRODUCTION TO JAPANESE BUSINESS CULTURE	2	SPR	STAFF	1･2･3･4	JPN214-01j00	
※1	JPN214	INTRODUCTION TO JAPANESE BUSINESS CULTURE	2	SPR	STAFF	1･2･3･4	JPN214-01j00	
※1	JPN313	BUSINESS JAPANESE	2	SPR	STAFF	1･2･3･4	JPN313-01j00	※4
※1	JPN313	BUSINESS JAPANESE	2	AUT	STAFF	1･2･3･4	JPN313-01j00	※4
※1	JPN314	JAPANESE BUSINESS CULTURE	2	AUT	STAFF	1･2･3･4	JPN314-01j00	
※1	JPN314	JAPANESE BUSINESS CULTURE	2	AUT	STAFF	1･2･3･4	JPN314-01j00	
※1	JPN180	INTENSIVE JAPANESE 1	8	SPR	STAFF	1･2･3･4	JPN180-01e00	
※1	JPN180	INTENSIVE JAPANESE 1	8	AUT	STAFF	1･2･3･4	JPN180-01e00	
※1	JPN270	INTENSIVE JAPANESE 2	8	SPR	STAFF	1･2･3･4	JPN270-01j00	
※1	JPN270	INTENSIVE JAPANESE 2	8	AUT	STAFF	1･2･3･4	JPN270-01j00	
※1	JPN280	INTENSIVE JAPANESE 3	8	SPR	STAFF	1･2･3･4	JPN280-01j00	

Registration CD	Course CD	Course Title	Cr.	Semester Offered	Instructor	Student Year	Numbering	Remarks
※1	JPN280	INTENSIVE JAPANESE 3	8	AUT	STAFF	1・2・3・4	JPN280-01j00	
※1	JPN370	INTENSIVE JAPANESE 4	8	SPR	STAFF	1・2・3・4	JPN370-01j00	
※1	JPN370	INTENSIVE JAPANESE 4	8	AUT	STAFF	1・2・3・4	JPN370-01j00	
AJPN341A	JPN341	READING & WRITING 1	2	SPR	NAGASAWA Itsuki	1・2・3・4	JPN341-01j00	
AJPN3411	JPN341	READING & WRITING 1	2	AUT	NAGASAWA Itsuki	1・2・3・4	JPN341-01j00	
AJPN342A	JPN342	READING & WRITING 2	2	SPR	NAGASU Mika	1・2・3・4	JPN342-01j00	
AJPN3421	JPN342	READING & WRITING 2	2	AUT	NAGASU Mika	1・2・3・4	JPN342-01j00	
AJPN343A	JPN343	READING & WRITING 3	2	SPR	TSUKADA Yuko*	1・2・3・4	JPN343-01j00	
AJPN3431	JPN343	READING & WRITING 3	2	AUT	TSUKADA Yuko*	1・2・3・4	JPN343-01j00	
AJPN345A	JPN345	JAPANESE LITERACY	2	SPR	NOGUCHI Kiyoshi*	1・2・3・4	JPN345-01j00	
AJPN3451	JPN345	JAPANESE LITERACY	2	AUT	MIYAZAKI Sachie*	1・2・3・4	JPN345-01j00	
AJPN4071	JPN407	TRANS JPN TO ENG :THEORY&PRAC	4	SPR	SUMIMOTO Tokihisa*	1・2・3・4	JPN407-01j00	
AJPN4072	JPN407	TRANS JPN TO ENG :THEORY&PRAC	4	AUT	SUMIMOTO Tokihisa*	1・2・3・4	JPN407-01j00	
AJPN4080	JPN408	TRANS ENG TO JPN :THEORY&PRAC	4	AUT	KATORI Yoshikazu*	1・2・3・4	JPN408-01j00	※5
AJPN431A	JPN431	ACADEMIC JAPANESE 1-1	2	SPR	XU Yan*	1・2・3・4	JPN431-01j00	
AJPN431B	JPN431	ACADEMIC JAPANESE 1-1	2	SPR	XU Yan*	1・2・3・4	JPN431-01j00	
AJPN432A	JPN432	ACADEMIC JAPANESE 1-2	2	AUT	URAWA Chie*	1・2・3・4	JPN432-01j00	
AJPN432B	JPN432	ACADEMIC JAPANESE 1-2	2	AUT	XU Yan*	1・2・3・4	JPN432-01j00	
AJPN4410	JPN441	ACADEMIC JAPANESE 2-1	2	SPR	SERA Tokiko	1・2・3・4	JPN441-01j00	
AJPN4420	JPN442	ACADEMIC JAPANESE 2-2	2	AUT	SERA Tokiko	1・2・3・4	JPN442-01j00	

Instructor's name with * = adjunct instructor

※1: Please check the JPT result and timetable on Loyola.

※3: Available from AY2026 in place of JPN322. The courses under a new course number may not be taken if they were taken previously under the former

※4: Available from AY2026 in place of JPN311. The courses under a new course number may not be taken if they were taken previously under the former

※5: Available from AY2025 in place of JPN405/406. The courses under a new course number may not be taken if they were taken previously under the former

For descriptions of the courses listed above, please refer to course syllabi on Loyola.

Department of Materials and Life Sciences
Bachelor's Program in Green Science

Education and Research Objectives

To have students learn academic subjects, such as physics, chemistry, biology, environmental science, and materials science, in an interdisciplinary manner, understand the fundamentals of atoms, molecules, macromolecules, and materials related to natural phenomena, and improve their ability to apply and practice what they have learned.

Human Resource Development Objectives

To develop human resources who have new perspectives of materials and life sciences and can work toward the sustainable integration of the global environment with science and technology, so that they can contribute to creating materials and technologies on the basis of new concepts.

Diploma Policy

The Department of Materials and Life Sciences aims to foster human resources with integrated knowledge based on a broad perspective and a sense of life and materials harmonized with nature. With a view to this aim, the Department sets standards for the skills and knowledge students should acquire before graduation as described below. Those who have fulfilled the requirements and have passed the thesis defense will be awarded a diploma.

1. Understanding of the fundamentals of natural science disciplines and safety and ethical/moral values regarding science and technology
2. The ability to understand physical, chemical and natural/living phenomena based on the fundamentals of physics, chemistry and biology.
3. The ability to systematically understand the fundamentals of materials and life and contribute to the creation of substances ranging from atoms and molecules to polymers and biological materials as well as technology development.
4. The ability to contribute to solving science and engineering issues leading to substances and nanotechnology, harmonization of environment and life, and the creation of high-performance material by acquiring the ability to apply and develop what one has learned theoretically and technologically.

Curriculum Policy

In accordance with the Diploma Policy, the Department of Materials and Life Sciences constructs its curriculum as follows:

1. To understand the fundamentals of natural science disciplines and acquire safety and ethical/moral values regarding science and technology through coursework in Science and Technology Category I General Courses.
2. To acquire the fundamentals of the natural sciences in general, including physics, chemistry, biology, informatics, and mathematics through coursework in Faculty of Science and Technology Category II General Courses and simultaneously acquire skills in English comprehension and expression by becoming familiar with science and technology-related English communication
3. To acquire the ability to contribute to the creation of substances ranging from atoms and molecules to polymers and living molecules through coursework in Departmental Core Courses on materials and life (lectures and laboratory classes in physics, chemistry and biology).
4. To study highly academic contents on substances and nanotechnology, harmonization between environment and life, and the creation of high-function materials (Departmental Specialized Subjects) and thus acquire problem-solving approaches to applied and emerging disciplines, interdisciplinary fields and human society.
5. To acquire the qualities of a researcher through small-group education where cutting-edge disciplines are understood through graduate research and seminars, and findings are presented, thus acquiring the ability to apply and develop what has been learned theoretically and technologically.

1.Courses and Minimum Number of Credits Required for Graduation

Total: 124 credits are required for graduation.

【For students who entered from 2022】

General Studies (Zengaku Kyotsu Kamoku)

Compulsory:	8 credits (Studies in Christian Humanism: For Others, With Others: 1 credit. Liberal Arts of The Body: 1 credit. Critical Thinking & Writing: 2 credits. Overview of Data Science: 2 credits. Thinking About Issues, Perspectives and Positionality: 2 credits.)
Compulsory electives:	6 credits (Studies in Christian Humanism: 2 credits. Advanced General Education Courses: 4 credits)
Electives:	12 credits

Language

Compulsory:	4 credits (English)

Specialized Education (Gakka Kamoku)

Compulsory:	29 credits
Compulsory electives:	13 credits
Electives:	52 credits

【For students who entered from 2020 to 2021】

General Studies (Zengaku Kyotsu Kamoku)

Compulsory:	2 credits (Health and Physical Education: 2 credits)
Compulsory electives:	4 credits (Studies in Christian Humanism)
Electives:	20 credits (including Advanced General Education Courses: 2 credits)

Language

Compulsory:	4 credits (English)

Specialized Education (Gakka Kamoku)

Compulsory:	29 credits
Compulsory electives:	13 credits
Electives:	52 credits

2.Distribution of Required Credits

Please see p.FST30-FST33

3.Precautions when Choosing Courses

1) Specialized Education (Gakka Kamoku)

(1) Classification of Specialized Education (Gakka Kamoku)

Faculty of Science and Technology Common Subject Group I:

These are fundamental courses taken by all students of the Faculty of Science and Technology. Courses in this group consist of compulsory courses (16 credits) and compulsory elective courses (English for Science and Engineering (2 credits)).

Faculty of Science and Technology Common Subject Group II:

This group is a continuation from Group I, which consists of common courses that form the foundation for studying specialized courses. While these courses are taken by all students of the Faculty of Science and Technology, some courses are particularly relevant for each department. Therefore, a number of courses are designated as compulsory elective courses by the department. To graduate, students need 28 credits from this particular group, including 8 credits from the compulsory elective courses.

Department Core Courses:

Courses in this group form the educational core of each department and include experiments, exercises, seminars, and graduation research. Some of the experiment-based and practical courses are compulsory elective courses while others are compulsory courses. A combined total of 16 credits from this group must be completed. Starting in 2021, RESEARCH TRIAL AUTUMN and RESEARCH TRIAL SPRING are also available as the option courses for 3rd year students (see (7)). The purpose of these courses is to provide the students an early-stage experience of actual

research activities, within the department, to earn a deep understanding on how to approach research activities and specialized subjects of the department.

Department Specialized Courses:

These specialized courses offered by each department are electives. Students are required to take 32 credits from these courses in order to graduate. The courses listed as SAIMS Program Course with ※ mark, Will be included as Department Specialized Course.

(2) Credits Required for Graduation

To graduate, students are required to take a total of 94 credits from Specialized Education Courses (Gakka Kamoku): 29 credits from compulsory courses, 13 credits from compulsory elective courses, and 52 credits from elective courses.

(3) English for Science and Engineering

Students are required to take the compulsory elective course "ENGL. FOR SCI/ENGINEERING" from the Faculty of Science and Technology Common Subject Group I.

(4) Faculty of Science and Technology Common Subject Group II

Students must complete 8 credits or more from the compulsory elective courses in this group specified by their department. For students taking more than 8 credits, they can count the extra credits toward the Faculty of Science and Technology Common Subject Group II elective courses. Combined with extra credits from compulsory elective courses, students must take 20 credits from the elective courses in this group.

(5) Experiment-based and Practical Subjects from Department Core Courses

Students must take 13 credits from the compulsory courses in the Department Core Courses group.

In addition, they must take 3 or more credits combined with compulsory elective courses from the Department Core Courses group other than English Courses.

MATERIALS AND LIFE SCIENCES LAB. A, LAB. B and LAB. C are compulsory subjects.

Students must register for one of the compulsory elective subjects CHEMISTRY LAB. 1 or BIOLOGY LAB. 1.

Students must register for one of the compulsory elective subjects CHEMISTRY LAB. 2 or BIOLOGY LAB. 2.

Students must register for one of the compulsory elective subjects PHYSICAL CHEMISTRY LAB. or BIOLOGY LAB. 3.

There is an upper limit to the student number for each of the above mentioned compulsory elective courses. In case that the upper limit is reached, students with higher GPA×credits are given priority in the placement of the students.

The following quarter courses must be registered during the Autumn and Spring registration periods (as if they are semester courses).

・Autumn: [MATERIALS AND LIFE SCIENCE LAB. C] and [CHEMISTRY LAB. 1 or BIOLOGY LAB. 1]

・Spring: [CHEMISTRY LAB. 2 or BIOLOGY LAB. 2] and [PHYSICAL CHEMISTRY LAB. or BIOLOGY LAB. 3]

Corrections or additions to the above experimental courses during the quarter courses extra course registration period is not allowed.

(6) Department Specialized Courses

Students must take 32 credits or more from elective courses.

(7) Optional Courses within the Department Specialized Courses

RESEARCH TRIAL AUTUMN and RESEARCH TRIAL SPRING are available. These courses are offered by the Materials and Life Science Japanese Language Program but imparted in English. The credits obtained from these courses will not count for the required graduation credits.

a. For a student to be able to register for RESEARCH TRIAL AUTUMN and RESEARCH TRIAL

SPRING, the student must have previously passed; EXPERIMENTS & EXERCISE OF BASIC SCIENCE, MATERIALS AND LIFE SCIENCE LAB. A, and B. Additionally, the students are required to possess training on safety procedures equivalent to MATERIALS AND LIFE SCIENCE LAB. C.

b. There is an upper limit to the number of students that the teaching staff can accept each semester. In case that the registered students pass the upper limit, students will be accepted based on the student's grade.

c. Since these are optional courses their credits do not count as graduation credits, however the department strongly encourages the students to take this opportunity as a first-hand experience on research work.

d. For details, follow the instructions given by the department.

2) Registration Requirements for GRADUATION RESEARCH

(1) To register for GRADUATION RESEARCH 1, the total number of remaining credits out of the minimum number of credits from courses required for graduation must be 14 or less, including the 4 credits for GRADUATION RESEARCH 1, GRADUATION RESEARCH 2, SEMINAR 1 and SEMINAR 2.

(2) To register for GRADUATION RESEARCH 1, students must have completed the compulsory experimental courses; EXPERIMENTS & EXERCISE OF BASIC SCIENCE, and MATERIALS AND LIFE SCIENCES LAB. A, LAB. B and LAB. C.

(3) In principle, students take GRADUATION RESEARCH 1 in the autumn semester of the 4th year. Those who meet the above requirements and wish to take it in the following spring semester should inform their department.

(4) To register for GRADUATION RESEARCH 2, students must have completed GRADUATION RESEARCH 1.

(5) To register for SEMINAR 1, registration of GRADUATION RESEARCH 1 must be already approved. In principle, students must take GRADUATION RESEARCH 1, GRADUATION RESEARCH 2, SEMINAR 1 and SEMINAR 2 with the same instructor. Additionally, to register for SEMINAR 2, it is required to have previously acquired SEMINAR 1.

3) Limit on the Number of Credits per Year/Semester

【For students who entered from 2022】

The following limitations apply to the number of credits that can be registered in each academic year and semester.

(Note 1) Even if students are within the limits for registering credits in the autumn and spring semesters, the total number of credits registered in both semesters cannot exceed the annual limit.

(Note 2) Those who have registered for the Teacher Certification Program are permitted to register for additional courses even though the limit for the semester has been exceeded after they have registered for the program, which is up to 6 credits in each semester (10 credits each year) from their 2nd year.

(Credits)

1st Year			2nd Year			3rd Year			4th Year			Total
Aut	Spr	Annual Limit	Aut	Spr	Annual Limit	Aut	Spr	Annual Limit	Aut	Spr	Annual Limit	
27	27	49	27	27	49	27	27	49	27	27	49	196

※Spring: Spring・1Q・2Q courses, Autumn: Autumn・3Q・4Q courses

【For students who entered from 2020 to 2021】

The following limitations apply to the number of credits that can be registered in each academic year and semester.

(Note 1) Even if students are within the limits for registering credits in the autumn and spring semesters, the total number of credits registered in both semesters cannot exceed the annual limit.

(Note 2) Those who have registered for the Teacher Certification Program are permitted to register for additional courses even though the limit for the semester has been exceeded after they have registered for the program, which is up to 6 credits in each semester (10 credits each year) from their 2nd year.

(Note 3) Credits for Japanese Courses offered during Spring/Summer Recess will not be included in the maximum credit limit per year/semester (for FST English program students only).

(Credits)

1st Year			2nd Year			3rd Year			4th Year			Total
Aut	Spr	Annual Limit	Aut	Spr	Annual Limit	Aut	Spr	Annual Limit	Aut	Spr	Annual Limit	
26	27	49	27	26	49	25	27	49	26	27	49	196

※Spring: Spring・1Q・2Q courses, Autumn: Autumn・3Q・4Q courses

【For students who entered in and after 2024】 Department of Material and Life Sciences (Green Science)

○General Studies: University-Wide General Studies (26 credits)

			1st Year				2nd Year				3rd Year				4th Year			
			Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester	
			course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr
Compulsory	Compulsory	8 cr	Studies in Christian Humanism: For Others, With Others	1	Critical Thinking & Discussion	2												
			Liberal Arts of the Body	1	Overview of Data Science	2												
			Thinking about Issues, Perspectives and Positionality	2														
Compulsory Electives	Studies in Advanced	6 cr					Studies in Christian Humanism	2										
											Advanced General Education Courses	4						
Electives	Electives	12 cr	- General Studies Elective Courses - First-year students may take General Studies Elective Courses up to 4 credits each semester - Japanese or any other Language (up to 8cr) - 100-200 level courses offered by FLA (see p.84) - Credits earned in excess of 6 credits in Complusory Electives will be counted into Electives.															

○Language (4credits)

		1st Year				2nd Year				3rd Year				4th Year			
		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester	
		course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr
Compulsory	4cr	Academic Writing 1	2	Academic Writing 2	2												

○Specialized Education (Gakka Kamoku) (94credits)

			1st Year				2nd Year				3rd Year				4th Year			
			Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester	
			course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr
Faculty of Science and Technology Common Subject Group Ⅰ	Compulsory	16cr	MATHEMATICS A (LINEAR ALGEBRA)*	2	BASIC CHEMISTRY	2												
			MATHEMATICS B (CALCULUS)*	2	BASIC INFORMATICS**	2												
			MATHEMATICS EXERCISE 1*	1	EXPERIMENTS AND EXERCISE OF BASIC	1												
			INTRODUCTION OF SCIENCE AND TECHNOLOGY	2														
			BASIC PHYSICS 1	2														
			BASIC BIOLOGY	2														
	Compulsory Elective	2cr							ENGL. FOR SCI/ENGINEERING (ENVIRONMENT)	2								
Faculty of Science and Technology Common Subject Group Ⅱ	Compulsory Elective	8cr					BASIC PHYSICS 2	2	MOLECULAR BIOLOGY	2								
									INORGANIC CHEMISTRY (ANALYTICAL CHEMISTRY)	2								
									ORGANIC CHEMISTRY	2								
									ELECTROMAGNETISM	2								
	Elective	20cr					20 credits must be taken from the FST General Subject Group Ⅱ elective courses. (Surplus credits from compulsory elective courses can be counted as elective courses.)											
Department Core Courses	Compulsory	13cr					MATERIALS AND LIFE SCIENCES (PHYSICS)	2	MATERIALS AND LIFE SCIENCES LAB. B	1	MATERIALS AND LIFE SCIENCES LAB. C	1			SEMINAR 1	1	SEMINAR 2	1
							MATERIALS AND LIFE SCIENCES (CHEMISTRY)	2							GRADUATION RESEARCH 1	1	GRADUATION RESEARCH 2	1
							MATERIALS AND LIFE SCIENCES (BIOLOGY)	2										
							MATERIALS AND LIFE SCIENCES LAB. A	1										
	Compulsory Elective	3cr									CHEMISTRY LAB. 1	1	CHEMISTRY LAB. 2	1				
											BIOLOGY LAB.1	1	PHYSICAL CHEMISTRY LAB.	1				
											日本語のコア選択必修科目	1~2	BIOLOGY LAB.2	1				
													BIOLOGY LAB.3	1				
Department Specialized Courses	Elective	32cr	32 credits must be taken from Department Specialized Courses. (Students can include up to 16 credits from the Department Specialized courses of other departments of FST and Japanese program of your department.)															

* The three mathematic courses marked with the asterisk mark should be taken together in the same semester.

**【For those who entered in 2024】From 2025, “BASIC INFORMATICS” is assinged in the Spring semester.

Although the distribution list attached in the "Bulletin of Information 2024-2025" shows you should take this course in the 3rd semester, please take this course in the 2nd semester.

【For students who entered in 2023】 Department of Material and Life Sciences (Green Science)

○ General Studies: University-Wide General Studies (26 credits)

			1st Year				2nd Year				3rd Year				4th Year			
			Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester	
			course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr
Compulsory	Compulsory	8 cr	Studies in Christian Humanism: For Others, With Others	1	Critical Thinking & Discussion	2												
			Liberal Arts of the Body	1	Overview of Data Science	2												
			Thinking about Issues, Perspectives and Positionality	2														
Compulsory Electives	Studies in Christian Humanism	6 cr					Studies in Christian Humanism	2										
	Advanced General Education Courses										Advanced General Education Courses							4
Electives	Electives	12 cr	- General Studies Elective Courses - First-year students may take General Studies Elective Courses up to 4 credits each semester - Japanese or any other Language (up to 8cr) - 100-200 level courses offered by FLA (see p.84) - Credits earned in excess of 6 credits in Complusory Electives will be counted into Electives.															

○Language (4credits)

		1st Year				2nd Year				3rd Year				4th Year			
		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester	
		course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr
Compulsory	4cr	Academic Writing 1	2	Academic Writing 2	2												

○Specialized Education (Gakka Kamoku) (94credits)

			1st Year				2nd Year				3rd Year				4th Year			
			Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester	
			course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr
Faculty of Science and Technology Common Subject Group Ⅰ	Compulsory	16cr	MATHEMATICS A (LINEAR ALGEBRA)*	2	BASIC CHEMISTRY	2	BASIC INFORMATICS	2										
			MATHEMATICS B (CALCULUS)*	2	EXPERIMENTS AND EXERCISE OF BASIC SCIENCE	1												
			MATHEMATICS EXERCISE 1*	1														
			INTRODUCTION OF SCIENCE AND TECHNOLOGY	2														
			BASIC PHYSICS 1	2														
			BASIC BIOLOGY	2														
	Compulsory Elective	2cr							ENGL. FOR SCI/ENGINEERING (ENVIRONMENT)	2								
Faculty of Science and Technology Common Subject Group Ⅱ	Compulsory Elective	8cr					BASIC PHYSICS 2	2	MOLECULAR BIOLOGY	2								
									INORGANIC CHEMISTRY (ANALYTICAL CHEMISTRY)	2								
									ORGANIC CHEMISTRY	2								
									ELECTROMAGNETISM	2								
	Elective	20cr					20 credits must be taken from the FST General Subject Group Ⅱ elective courses. (Surplus credits from compulsory elective courses can be counted as elective courses.)											
Department Core Courses	Compulsory	13cr					MATERIALS AND LIFE SCIENCES (PHYSICS)	2	MATERIALS AND LIFE SCIENCES LAB. B	1	MATERIALS AND LIFE SCIENCES LAB. C	1			SEMINAR 1	1	SEMINAR 2	1
							MATERIALS AND LIFE SCIENCES (CHEMISTRY)	2							GRADUATION RESEARCH 1	1	GRADUATION RESEARCH 2	1
							MATERIALS AND LIFE SCIENCES (BIOLOGY)	2										
							MATERIALS AND LIFE SCIENCES LAB. A	1										
	Compulsory Elective	3cr									CHEMISTRY LAB. 1	1	CHEMISTRY LAB. 2	1				
											BIOLOGY LAB.1	1	PHYSICAL CHEMISTRY LAB.	1				
											日本語のコア選択必修科目	1~2	BIOLOGY LAB.2	1				
													BIOLOGY LAB.3	1				
Department Specialized Courses	Elective	32cr	32 credits must be taken from Department Specialized Courses. (Students can include up to 16 credits from the Department Specialized courses of other departments of FST and Japanese program of your department.)															

* The three mathematic courses marked with the asterisk mark should be taken together in the same semester.

【For students who entered in 2022】 Department of Material and Life Sciences (Green Science)

○ General Studies: University-Wide General Studies (26 credits)

			1st Year				2nd Year				3rd Year				4th Year			
			Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester	
			course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr
Compulsory	Compulsory	8 cr	Studies in Christian Humanism: For Others, With Others	1	Critical Thinking & Discussion	2												
			Liberal Arts of the Body	1	Overview of Data Science	2												
			Thinking about Issues, Perspectives and Positionality	2														
Compulsory Electives	Studies in Christian Humanism	6 cr					Studies in Christian Humanism	2										
	Advanced General Education Courses										Advanced General Education Courses	4						
Electives	Electives	12 cr	- General Studies Elective Courses - First-year students may take General Studies Elective Courses up to 4 credits each semester - Japanese or any other Language (up to 8cr) - 100-200 level courses offered by FLA (see p.84) - Credits earned in excess of 6 credits in Complusory Electives will be counted into Electives.															

○Language (4credits)

		1st Year				2nd Year				3rd Year				4th Year			
		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester	
		course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr
Compulsory	4cr	Academic Writing 1	2	Academic Writing 2	2												

○Specialized Education (Gakka Kamoku) (94credits)

			1st Year				2nd Year				3rd Year				4th Year			
			Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester	
			course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr
Faculty of Science and Technology Common Subject Group Ⅰ	Compulsory	16cr	MATHEMATICS A (LINEAR ALGEBRA)*	2	BASIC CHEMISTRY	2	BASIC INFORMATICS	2										
			MATHEMATICS B (CALCULUS)*	2	EXPERIMENTS AND EXERCISE OF BASIC SCIENCE	1												
			MATHEMATICS EXERCISE 1*	1														
			OUTLINE OF SCIENCE AND TECHNOLOGY	2														
			BASIC PHYSICS 1	2														
			BASIC BIOLOGY	2														
	Compulsory Elective	2cr							ENGL. FOR SCI/ENGINEERING (ENVIRONMENT)	2								
Faculty of Science and Technology Common Subject Group Ⅱ	Compulsory Elective	8cr					BASIC PHYSICS 2	2	MOLECULAR BIOLOGY	2			ELECTROMAGNETISM	2				
									INORGANIC CHEMISTRY (ANALYTICAL CHEMISTRY)	2								
									ORGANIC CHEMISTRY	2								
	Elective	20cr					20 credits must be taken from the FST General Subject Group Ⅱ elective courses. (Surplus credits from compulsory elective courses can be counted as elective courses.)											
Department Core Courses	Compulsory	13cr					MATERIALS AND LIFE SCIENCES (PHYSICS)	2	MATERIALS AND LIFE SCIENCES LAB. B	1	MATERIALS AND LIFE SCIENCES LAB. C	1			SEMINAR 1	1	SEMINAR 2	1
							MATERIALS AND LIFE SCIENCES (CHEMISTRY)	2							GRADUATION RESEARCH 1	1	GRADUATION RESEARCH 2	1
							MATERIALS AND LIFE SCIENCES (BIOLOGY)	2										
							MATERIALS AND LIFE SCIENCES LAB. A	1										
	Compulsory Elective	3cr									CHEMISTRY LAB. 1	1	CHEMISTRY LAB. 2	1				
											BIOLOGY LAB.1	1	PHYSICAL CHEMISTRY LAB.	1				
											日本語のコア選択必修科目	1~2	BIOLOGY LAB.2	1				
													BIOLOGY LAB.3	1				
Department Specialized Courses	Elective	32cr	32 credits must be taken from Department Specialized Courses. (Students can include up to 16 credits from the Department Specialized courses of other departments of FST and Japanese program of your department.)															

* The three mathematic courses marked with the asterisk mark should be taken together in the same semester.

【For students who entered from 2020 to 2021】 Department of Material and Life Sciences (Green Science)

○General Studies (Zengaku Kyotsu Kamoku) (26credits)

		1st Year				2nd Year				3rd Year				4th Year			
		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester	
		course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr
Compulsory	2cr	Health and Physical Education	2														
Compulsory Elective	4cr	Studies in Christian Humanism			4												
Elective	20cr	• Japanese or any other Language(up to 8cr) • 100-200 level courses offered by FLA (see p.84) • General Studies Elective Courses								Advanced General Education Courses			2				

○Language (4credits)

		1st Year				2nd Year				3rd Year				4th Year			
		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester	
		course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr
Compulsory	4cr	Academic Writing 1	2	Academic Writing 2	2												

○Specialized Education (Gakka Kamoku) (94credits)

			1st Year				2nd Year				3rd Year				4th Year			
			Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester	
			course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr
Faculty of Science and Technology Common Subject Group Ⅰ	Compulsory	16cr	MATHEMATICS A (LINEAR ALGEBRA)*	2	BASIC CHEMISTRY	2	BASIC INFORMATICS	2										
			MATHEMATICS B (CALCULUS)*	2	EXPERIMENTS AND EXERCISE OF BASIC SCIENCE	1												
			MATHEMATICS EXERCISE 1*	1														
			OUTLINE OF SCIENCE AND TECHNOLOGY	2														
			BASIC PHYSICS 1	2														
			BASIC BIOLOGY	2														
	Compulsory Elective	2cr							ENGL.. FOR SCI/ENGINEERING (ENVIRONMENT)	2								
Faculty of Science and Technology Common Subject Group Ⅱ	Compulsory Elective	8cr					BASIC PHYSICS 2	2	MOLECULAR BIOLOGY	2			ELECTROMAGNETISM	2				
									INORGANIC CHEMISTRY (ANALYTICAL CHEMISTRY)	2								
									ORGANIC CHEMISTRY	2								
	Elective	20cr					20 credits must be taken from the FST General Subject Group Ⅱ elective courses. (Surplus credits from compulsory elective courses can be counted as elective courses.)											
Department Core Courses	Compulsory	13cr					MATERIALS AND LIFE SCIENCES (PHYSICS)	2	MATERIALS AND LIFE SCIENCES LAB. B	1	MATERIALS AND LIFE SCIENCES LAB. C	1			SEMINAR 1	1	SEMINAR 2	1
							MATERIALS AND LIFE SCIENCES (CHEMISTRY)	2							GRADUATION RESEARCH 1	1	GRADUATION RESEARCH 2	1
							MATERIALS AND LIFE SCIENCES (BIOLOGY)	2										
							MATERIALS AND LIFE SCIENCES LAB. A	1										
	Compulsory Elective	3cr									CHEMISTRY LAB. 1	1	CHEMISTRY LAB. 2	1				
											BIOLOGY LAB.1	1	PHYSICAL CHEMISTRY LAB.	1				
											日本語のコア選択必修科目	1~2	BIOLOGY LAB.2	1				
													BIOLOGY LAB.3	1				
Department Specialized Courses	Elective	32cr	32 credits must be taken from Department Specialized Courses. (Students can include up to 16 credits from the Department Specialized courses of other departments of FST and Japanese program of your department.)															

* The three mathematic courses marked with the asterisk mark should be taken together in the same semester.

Department of Engineering and Applied Sciences
Bachelor's Program in Green Engineering

Objectives of Education and Research

To foster students' ability to create entirely new values and functions by acquiring knowledge of materials, devices, energy, machinery, and systems, through an in-depth understanding of physics and mathematics.

Objectives of Human Resource Development

To nurture human resources who can, with a flexible mindset, apply and develop a wide range of knowledge and solid expertise acquired, so that they can contribute to solving various scientific and technological problems.

Diploma Policy

The Department of Engineering and Applied Sciences, aims to foster human resources with solid fundamental knowledge of science and technology who can contribute to the acquisition of new physical values and the development of ingenious technologies. With a view to this aim, the department sets standards for the skills and knowledge students should acquire before graduation as described below. Those who have fulfilled the requirements and have passed the thesis defense will be awarded a diploma.

1. The broad ability to address science and technology issues, acquired by studying the fundamentals of science and technology, including natural science disciplines.
2. The ability to contribute to the acquisition of new physical values and the creation of functions, nurtured by systematically studying physics, mechanical engineering and electrical and electronics engineering.
3. The ability to contribute to the development of ingenious technologies, acquired by studying physics, mechanical engineering and electrical and electronics engineering from the perspectives of "energy creation and use," "understanding substances and creating materials and devices," and "manufacturing and creating systems."
4. The ability to pursue original research and thus contribute to the further advancement of science and technology, with the power to solve various science and technology issues acquired by theoretically and technologically applying and developing what one has learned.

Curriculum Policy

The Department of Engineering and Applied Sciences aims to foster the ability to contribute to society by acquiring "combined intelligence," which is an integration of academic disciplines, such as "mechanical engineering," "electrical and electronics engineering" and "physics," and key themes, including "energy creation and use," "understanding substances and creating materials and devices," and "manufacturing and system building." In light of this and in accordance with the diploma policy, the Department constructs its curriculum with courses aligned with the following purposes.

1. To acquire qualities that can accommodate the advancement of globalization through coursework in courses aimed at nurturing broad cultural knowledge and widening global perspectives, English courses and courses for the understanding of Christian humanism, offered as university-wide General Courses and Language Courses.
2. To acquire the fundamentals of the natural sciences in general, including physics, chemistry, biology, informatics, and mathematics through coursework in Science and Technology Category I General Courses to nurture broad capacities to address various science and technology issues.
3. To broadly study the fundamentals of science and technology associated with physics, mechanical engineering and electrical and electronics engineering; select a discipline from physics, mechanical engineering and electrical and electronics engineering based on coursework in lectures, as well as laboratory classes and seminars offered as Department Core Courses and Department Specialized Courses; and therefore, foster the ability to contribute to the acquisition of new physical values and creation of functions by systematically understanding each discipline. Also, to acquire science and technology-related English in order to be able to understand science and technology in English.
4. To acquire interdisciplinary abilities to apply and develop what has been learned in real society by using physics, mechanical engineering and electrical and electronics engineering. This is supported by allowing students to select lectures, laboratory classes and seminars from the perspectives of "energy creation and use,"

"understanding substances and creating materials and devices," and "manufacturing and system building" based on lectures, laboratory classes and seminars in Department Core Courses and Department Specialized Courses.

5. To acquire the qualities of a researcher by gaining understanding of cutting–edge disciplines and presenting findings through graduate research and to acquire the ability to apply and develop what has been learned theoretically and technologically.

1.Courses and Minimum Number of Credits Required for Graduation

【For students who entered from 2022】

General Studies (Zengaku Kyotsu Kamoku)

Compulsory:	8 credits (Studies in Christian Humanism: For Others, With Others: 1 credit. Liberal Arts of The Body: 1 credit. Critical Thinking & Writing: 2 credits. Overview of Data Science: 2 credits. Thinking About Issues, Perspectives and Positionality: 2 credits.)
Compulsory electives:	6 credits (Studies in Christian Humanism: 2 credits. Advanced General Education Courses: 4 credits)
Electives:	12 credits

Language

Compulsory:	4 credits (English)

Specialized Education (Gakka Kamoku):

Compulsory:	26 credits
Compulsory electives:	25 credits
Electives:	43 credits

Total: 124 credits are required for graduation.

【For students who entered from 2020 to 2021】

General Studies (Zengaku Kyotsu Kamoku)

Compulsory:	2 credits (Health and Physical Education: 2 credits)
Compulsory electives:	4 credits (Studies in Christian Humanism)
Electives:	20 credits (including Advanced General Education Courses: 2 credits)

Language

Compulsory:	4 credits (English)

Specialized Education (Gakka Kamoku):

Compulsory:	26 credits
Compulsory electives:	25 credits
Electives:	43 credits

Total: 124 credits are required for graduation.

2.Distribution of Required Credits

Please see p.FST38-FST41

3.Precautions when Choosing Courses

1) Specialized Education (Gakka Kamoku)

【For students who entered from 2020】

(1) Classification of Specialized Education (Gakka Kamoku)

Faculty of Science and Technology Common Subject Group I:
These are fundamental courses taken by all students of the Faculty of Science and Technology. Courses in this group consist of compulsory courses (16 credits) and compulsory elective courses (English for Science and Engineering (2 credits)).

Faculty of Science and Technology Common Subject Group II:
This group is a continuation from Group I, which consists of common courses that form the foundation for studying specialized courses. While these courses are taken by all students of the Faculty of Science and Technology, some courses are particularly relevant for each department.

Therefore, a number of courses are designated as compulsory elective courses by the department. To graduate, students need 27 credits from this particular group, including 16 credits from the compulsory elective courses.

Department Core Courses:
Courses in this group form the core elements of study of each department and include experiments, exercises, seminars, Research Trial (Spring/Autumn) and graduation research. Some experiment-based and practical courses are compulsory elective courses while others are compulsory courses. A combined total of 17 credits from this group must be completed. Since 2021, Research Trial (Spring/Autumn) have been established for 3rd year students. The purpose of these courses is to provide the students an early-stage experience of actual research activities within the department, to earn deep understanding on how to approach research activities and specialized subjects of the department.

Department Specialized Courses:
These specialized courses offered by each department are electives. Students are required to take 32 credits from these courses in order to graduate.
The courses listed as SAIMS Program Course with ※ mark, will be included as Department Specialized Course.

(2) Credits Required for Graduation

To graduate, students are required to take a total of 94 credits from Specialized Education (Gakka Kamoku): 26 credits from compulsory courses, 25 credits from compulsory elective courses, and 43 credits from elective courses.

(3) English for Science and Engineering

Students are required to take the compulsory elective course “ENGL. FOR SCI/ENGINEERING” from the Faculty of Science and Technology Common Subject Group I.

(4) Faculty of Science and Technology Common Subject Group II

Students must complete 16 credits or more from the compulsory elective courses in this group specified by their department. For students taking more than 16 credits, they can count the excess credits toward the Faculty of Science and Technology Common Subject Group II elective courses. Combined with extra credits from compulsory elective courses, students must take 11 credits from the elective courses in this group.

(5) Experiment-based and Practical Subjects from Department Core Courses

Students must obtain 10 credits from the compulsory courses in the Department Core Courses group.
In addition, they must take 7 or more credits combined with compulsory elective courses from the Department Core Courses group other than English Courses.

(6) Department Specialized Courses

Students must take 32 credits or more from elective courses.

(7) Optional Courses within the Department Specialized Courses

Since 2021, the courses Research Trial (Spring/Autumn) became available for all students. These courses are offered by the Japanese Program but imparted in English. The credits obtained from these courses will not be counted for the required graduation credits.

a) For a student to be able to register Research Trial (Spring/Autumn), it must have previously passed; Experiments & Exercise of Basic Science, Engineering and Applied Sciences Lab. 1 and 2. Moreover, it must have registered Green Engineering Lab. 1.
b) There is an upper limit to the number of students that the teaching staff can take each semester. In case that the number of registered students exceeds the upper limit, students will be selected based on the student’s grade.
c) Since these are optional courses, their credits are not counted as graduation credits. However, the department strongly encourages the students to take this opportunity for first-hand experience on

research work.
d) For details, follow the instructions given by the department.

2) Registration Requirements for Graduation Research

(1) To register for Graduation Research I, the total number of remaining credits out of the minimum number of credits from subjects required for graduation (124 credits) must be 20 or fewer, including 2 credits from Graduation Research I and II.

(2) To register for Graduation Research II, students must have completed Graduation Research I.

(3) Generally, students take Graduation Research I in the autumn semester of the 4th year. Those who meet the above requirements and wish to take it in the following spring semester should inform their department.

3) Limit on the Number of Credits per Year/Semester

【For students who entered from 2022】

The following limitations apply to the number of credits that can be registered in each academic year and semester.

(Note 1) Even if students are within the limits for registering credits in the autumn and spring semesters, the total number of credits registered in both semesters cannot exceed the annual limit.
(Note 2) Those who have registered for the Teacher Certification Program are permitted to register for additional courses even though the limit for semester has been exceeded after they have registered for the program, which is up to 6 credits in each semester (10 credits per year) from their 2nd year.

(Credits)

1st Year			2nd Year			3rd Year			4th Year			Total
Aut	Spr	Annual Limit	Aut	Spr	Annual Limit	Aut	Spr	Annual Limit	Aut	Spr	Annual Limit	
27	27	49	27	27	49	27	27	49	27	27	49	196

※Spring: Spring・1Q・2Q courses, Autumn: Autumn・3Q・4Q courses

【For students who entered from 2020 to 2021】

The following limitations apply to the number of credits that can be registered in each academic year and semester.

(Note 1) Even if students are within the limits for registering credits in the autumn and spring semesters, the total number of credits registered in both semesters cannot exceed the annual limit.
(Note 2) Those who have registered for the Teacher Certification Program are permitted to register for additional courses even though the limit for semester has been exceeded after they have registered for the program, which is up to 6 credits in each semester (10 credits per year) from their 2nd year.

(Credits)

1st Year			2nd Year			3rd Year			4th Year			Total
Aut	Spr	Annual Limit	Aut	Spr	Annual Limit	Aut	Spr	Annual Limit	Aut	Spr	Annual Limit	
26	27	49	27	26	49	25	27	49	26	27	49	196

※Spring: Spring・1Q・2Q courses, Autumn: Autumn・3Q・4Q courses

【For students who entered in and after 2024】 Department of Engineering and Applied Sciences (Green Engineering)

○General Studies (Zengaku Kyotsu Kamoku) (26credits)

			1st Year				2nd Year				3rd Year				4th Year			
			Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester	
			course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr
Compulsory	Compulsory	8cr	Studies in Christian Humanism: For Others, With Others	1	Critical Thinking & Discussion	2												
			Liberal Arts of the Body	1	Overview of Data Science	2												
			Thinking about Issues, Perspectives and Positionality	2														
Compulsory Electives	Studies in Christian Humanism	6cr					Studies in Christian Humanism	2										
	Advanced General Education Courses										Advanced General Education Courses							
Electives	Electives	12cr	- General Studies Elective Courses - Freshmen may take General Studies Elective Courses up to 4 credits each semester - Japanese or any other Language (～8cr) - 100-200 level courses offered by FLA (p.84) - Credits earned in excess of 6 credits in Complusory Electives will be counted into Electives.															

○Language (4credits)

		1st Year				2nd Year				3rd Year				4th Year			
		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester	
		course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr
Compulsory	4cr	Academic Writing 1	2	Academic Writing 2	2												

○Specialized Education (Gakka Kamoku) (94credits)

			1st Year				2nd Year				3rd Year				4th Year			
			Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester	
			course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr
Faculty of Science and Technology Common Subject Group Ⅰ	Compulsory	16cr	MATHEMATICS A (LINEAR ALGEBRA)*	2	BASIC CHEMISTRY	2												
			MATHEMATICS B (CALCULUS)*	2	BASIC INFORMATICS**	2												
			MATHEMATICS EXERCISE 1*	1	EXPERIMENTS & EXERCISE OF BASIC SCIENCE	1												
			INTRODUCTION OF SCIENCE & TECHNOLOGY	2														
			BASIC PHYSICS 1	2														
			BASIC BIOLOGY	2														
	Compulsory Elective	2cr							ENGL. FOR SCI/ENGINEERING (ENVIRONMENT)	2								
Faculty of Science and Technology Common Subject Group Ⅱ	Compulsory Elective	16cr					MATHEMATICS B2 (CALCULUS OF SEVERAL VARIABLES)	2	MATHEMATICS C1 (STATISTICAL DATA ANALYSIS)	2	GEOSCIENCE★	2						
							BASIC DIFFERENTIAL EQUATIONS	2	FOURIER & LAPLACE TRANSFORMS	2	ATMOSPHERIC CHEMISTRY★	2						
							BASIC PHYSICS 2	2	MOLECULAR BIOLOGY	2	ELECTROMAGNETISM	2						
									THERMODYNAMICS	2								
									ATOMIC & MOLECULAR SCIENCES	2								
	Elective	11cr							11 credits must be taken from the FST Common Subject Group Ⅱ elective courses. (Surplus credits from compulsory elective courses can be counted as elective courses.)									
Department Core Courses	Compulsory	10cr					ENGINEERING AND APPLIED SCIENCES 1	2	ENGINEERING AND APPLIED SCIENCES 3	2					GRADUATION RESEARCH 1	1	GRADUATION RESEARCH 2	1
							ENGINEERING AND APPLIED SCIENCES 2	2	ENGINEERING AND APPLIED SCIENCES LAB. 2	1								
							ENGINEERING AND APPLIED SCIENCES LAB. 1	1										
	Compulsory Elective	7cr							GREEN ENGINEERING LAB. 1	1	GREEN ENGINEERING LAB. 3	1	GREEN ENGINEERING LAB. 2	1				
											TOPICS OF GREEN ENGINEERING 1	2						
											TOPICS OF GREEN ENGINEERING 2	2						
											日本語のコア選択必修科目	1~2						
Department Specialized Courses	Elective	32cr	32 credits must be taken from Department Specialized Courses. (Students can include up to 16 credits from the Department Specialized courses of other departments of FST and Japanese program of your department.)															

* The three mathematic courses marked with the asterisk mark should be taken together in the same semester.

★Every other year

**【For those who entered in 2024】From 2025, "BASIC INFORMATICS" is assinged in the Spring semester.
Although the distribution list attached in the "Bulletin of Information 2024-2025" shows you should take this course in the 3rd semester, please take this course in the 2nd semester.

【For students who entered in 2023】 Department of Engineering and Applied Sciences (Green Engineering)

○General Studies (Zengaku Kyotsu Kamoku) (26credits)

			1st Year				2nd Year				3rd Year				4th Year			
			Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester	
			course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr
Compulsory	Compulsory	8cr	Studies in Christian Humanism: For Others, With Others	1	Critical Thinking & Discussion	2												
			Liberal Arts of the Body	1	Overview of Data Science	2												
			Thinking about Issues, Perspectives and Positionality	2														
Compulsory Electives	Studies in Christian Humanism	6cr					Studies in Christian Humanism	2										
	Advanced General Education Courses										Advanced General Education Courses	4						
Electives	Electives	12cr	- General Studies Elective Courses - Freshmen may take General Studies Elective Courses up to 4 credits each semester - Japanese or any other Language (～8cr) - 100-200 level courses offered by FLA (p.84) - Credits earned in excess of 6 credits in Complusory Electives will be counted into Electives.															

○Language (4credits)

			1st Year				2nd Year				3rd Year				4th Year			
			Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester	
			course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr
Compulsory		4cr	Academic Writing 1	2	Academic Writing 2	2												

○Specialized Education (Gakka Kamoku) (94credits)

			1st Year				2nd Year				3rd Year				4th Year			
			Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester	
			course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr
Faculty of Science and Technology Common Subject Group Ⅰ	Compulsory	16cr	MATHEMATICS A (LINEAR ALGEBRA)*	2	BASIC CHEMISTRY	2	BASIC INFORMATICS	2										
			MATHEMATICS B (CALCULUS)*	2	EXPERIMENTS & EXERCISE OF BASIC SCIENCE	1												
			MATHEMATICS EXERCISE 1*	1														
			INTRODUCTION OF SCIENCE & TECHNOLOGY	2														
			BASIC PHYSICS 1	2														
			BASIC BIOLOGY	2														
	Compulsory Elective	2cr							ENGL. FOR SCI/ENGINEERING (ENVIRONMENT)	2								
Faculty of Science and Technology Common Subject Group Ⅱ	Compulsory Elective	16cr					MATHEMATICS B2 (CALCULUS OF SEVERAL VARIABLES)	2	MATHEMATICS C1 (STATISTICAL DATA ANALYSIS)	2	GEOSCIENCE★	2						
							BASIC DIFFERENTIAL EQUATIONS	2	FOURIER & LAPLACE TRANSFORMS	2	ATMOSPHERIC CHEMISTRY★	2						
							BASIC PHYSICS 2	2	MOLECULAR BIOLOGY	2	ELECTROMAGNETISM	2						
									THERMODYNAMICS	2								
									ATOMIC & MOLECULAR SCIENCES	2								
	Elective	11cr							11 credits must be taken from the FST Common Subject Group Ⅱ elective courses. (Surplus credits from compulsory elective courses can be counted as elective courses.)									
Department Core Courses	Compulsory	10cr					ENGINEERING AND APPLIED SCIENCES 1	2	ENGINEERING AND APPLIED SCIENCES 3	2					GRADUATION RESEARCH 1	1	GRADUATION RESEARCH 2	1
							ENGINEERING AND APPLIED SCIENCES 2	2	ENGINEERING AND APPLIED SCIENCES LAB. 2	1								
							ENGINEERING AND APPLIED SCIENCES LAB. 1	1										
	Compulsory Elective	7cr							GREEN ENGINEERING LAB. 1	1	GREEN ENGINEERING LAB. 3	1	GREEN ENGINEERING LAB. 2	1				
											TOPICS OF GREEN ENGINEERING 1	2						
											TOPICS OF GREEN ENGINEERING 2	2						
											日本語のコア選択必修科目	1~2						
Department Specialized Courses	Elective	32cr	32 credits must be taken from Department Specialized Courses. (Students can include up to 16 credits from the Department Specialized courses of other departments of FST and Japanese program of your department.)															

*The three mathematic courses marked with the asterisk mark should be taken together in the same semester.
★Every other year

【For students who entered in 2022】 Department of Engineering and Applied Sciences (Green Engineering)

○General Studies (Zengaku Kyotsu Kamoku) (26credits)

			1st Year				2nd Year				3rd Year				4th Year			
			Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester	
			course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr
Compulsory	Compulsory	8cr	Studies in Christian Humanism: For Others, With Others	1	Critical Thinking & Discussion	2												
			Liberal Arts of the Body	1	Overview of Data Science	2												
			Thinking about Issues, Perspectives and Positionality	2														
Compulsory Electives	Studies in Christian Humanism	6cr					Studies in Christian Humanism	2										
	Advanced General Education Courses										Advanced General Education Courses							4
Electives	Electives	12cr	- General Studies Elective Courses - Freshmen may take General Studies Elective Courses up to 4 credits each semester - Japanese or any other Language (～8cr) - 100-200 level courses offered by FLA (p.84) - Credits earned in excess of 6 credits in Complusory Electives will be counted into Electives.															

○Language (4credits)

		1st Year				2nd Year				3rd Year				4th Year			
		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester	
		course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr
Compulsory	4cr	Academic Writing 1	2	Academic Writing 2	2												

○Specialized Education (Gakka Kamoku) (94credits)

			1st Year				2nd Year				3rd Year				4th Year			
			Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester	
			course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr
Faculty of Science and Technology Common Subject Group Ⅰ	Compulsory	16cr	MATHEMATICS A (LINEAR ALGEBRA)*	2	BASIC CHEMISTRY	2	BASIC INFORMATICS	2										
			MATHEMATICS B (CALCULUS)*	2	EXPERIMENTS & EXERCISE OF BASIC SCIENCE	1												
			MATHEMATICS EXERCISE 1*	1														
			OUTLINE OF SCIENCE & TECHNOLOGY	2														
			BASIC PHYSICS 1	2														
			BASIC BIOLOGY	2														
	Compulsory Elective	2cr							ENGL. FOR SCI/ENGINEERING (ENVIRONMENT)	2								
Faculty of Science and Technology Common Subject Group Ⅱ	Compulsory Elective	16cr					MATHEMATICS B2 (CALCULUS OF SEVERAL VARIABLES)	2	MATHEMATICS C1 (STATISTICAL DATA ANALYSIS)	2	GEOSCIENCE★	2						
							BASIC DIFFERENTIAL EQUATIONS	2	FOURIER & LAPLACE TRANSFORMS	2	ATMOSPHERIC CHEMISTRY★	2						
							SCIENCE, TECHNOLOGY AND ENVIRONMENT	2	MOLECULAR BIOLOGY	2	ELECTROMAGNETISM	2						
							BASIC PHYSICS 2	2	THERMODYNAMICS	2								
									ATOMIC & MOLECULAR SCIENCES	2								
	Elective	11cr							11 credits must be taken from the FST Common Subject Group Ⅱ elective courses. (Surplus credits from compulsory elective courses can be counted as elective courses.)									
Department Core Courses	Compulsory	10cr					ENGINEERING AND APPLIED SCIENCES 1	2	ENGINEERING AND APPLIED SCIENCES 3	2					GRADUATION RESEARCH 1	1	GRADUATION RESEARCH 2	1
							ENGINEERING AND APPLIED SCIENCES 2	2	ENGINEERING AND APPLIED SCIENCES LAB. 2	1								
							ENGINEERING AND APPLIED SCIENCES LAB. 1	1										
	Compulsory Elective	7cr							GREEN ENGINEERING LAB. 1	1	GREEN ENGINEERING LAB. 3	1	GREEN ENGINEERING LAB. 2	1				
											TOPICS OF GREEN ENGINEERING 1	2						
											TOPICS OF GREEN ENGINEERING 2	2						
											日本語のコア選択必修科目	1~2						
Department Specialized Courses	Elective	32cr	32 credits must be taken from Department Specialized Courses. (Students can include up to 16 credits from the Department Specialized courses of other departments of FST and Japanese program of your department.)															

* The three mathematic courses marked with the asterisk mark should be taken together in the same semester.

★Every other year

【For students who entered from 2020 to 2021】 Department of Engineering and Applied Sciences (Green Engineering)

○General Studies (Zengaku Kyotsu Kamoku) (26credits)

		1st Year				2nd Year				3rd Year				4th Year			
		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester	
		course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr
Compulsory	2cr	Health and Physical Education	2														
Compulsory Elective	4cr	Studies in Christian Humanism	4														
Elective	20cr	・ Japanese or any other Language (～8cr) ・ 100-200 level courses offered by FLA (p.84) ・ General Studies Elective Courses								Advanced General Education Courses	2						

○Language (4credits)

		1st Year				2nd Year				3rd Year				4th Year			
		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester	
		course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr
Compulsory	4cr	Academic Writing 1	2	Academic Writing 2	2												

○Specialized Education (Gakka Kamoku) (94credits)

			1st Year				2nd Year				3rd Year				4th Year			
			Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester		Autumn Semester		Spring Semester	
			course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr	course title	cr
Faculty of Science and Technology Common Subject Group Ⅰ	Compulsory	16cr	MATHEMATICS A (LINEAR ALGEBRA)*	2	BASIC CHEMISTRY	2	BASIC INFORMATICS	2										
			MATHEMATICS B (CALCULUS)*	2	BASIC BIOLOGY	2												
			MATHEMATICS EXERCISE 1*	1	EXPERIMENTS & EXERCISE OF BASIC SCIENCE	1												
			OUTLINE OF SCIENCE & TECHNOLOGY	2														
			BASIC PHYSICS 1	2														
	Compulsory Elective	2cr							ENGL. FOR SCI/ENGINEERING (ENVIRONMENT)	2								
Faculty of Science and Technology Common Subject Group Ⅱ	Compulsory Elective	16cr					MATHEMATICS B2 (CALCULUS OF SEVERAL VARIABLES)	2	MATHEMATICS C1 (STATISTICAL DATA ANALYSIS)	2	GEOSCIENCE★	2						
							BASIC DIFFERENTIAL EQUATIONS	2	FOURIER & LAPLACE TRANSFORMS	2	ATMOSPHERIC CHEMISTRY★	2						
							SCIENCE, TECHNOLOGY AND ENVIRONMENT	2	MOLECULAR BIOLOGY	2	ELECTROMAGNETISM	2						
							BASIC PHYSICS 2	2	THERMODYNAMICS	2								
									ATOMIC & MOLECULAR SCIENCES	2								
	Elective	11cr							11 credits must be taken from the FST Common Subject Group Ⅱ elective courses. (Surplus credits from compulsory elective courses can be counted as elective courses.)									
Department Core Courses	Compulsory	10cr					ENGINEERING AND APPLIED SCIENCES 1	2	ENGINEERING AND APPLIED SCIENCES 3	2					GRADUATION RESEARCH 1	1	GRADUATION RESEARCH 2	1
							ENGINEERING AND APPLIED SCIENCES 2	2	ENGINEERING AND APPLIED SCIENCES LAB. 2	1								
							ENGINEERING AND APPLIED SCIENCES LAB. 1	1										
	Compulsory Elective	7cr							GREEN ENGINEERING LAB. 1	1	GREEN ENGINEERING LAB. 3**	1	GREEN ENGINEERING LAB. 2	1				
											TOPICS OF GREEN ENGINEERING 1	2						
											TOPICS OF GREEN ENGINEERING 2	2						
											日本語のコア選択必修科目	1~2						
Department Specialized Courses	Elective	32cr	32 credits must be taken from Department Specialized Courses. (Students can include up to 16 credits from the Department Specialized courses of other departments of FST and Japanese program of your department.)															

* The three mathematic courses marked with the asterisk mark should be taken together in the same semester.
** For students who entered in 2020, this course is offered in autumn semester of 4th year.
★Every other year

Course List [Faculty of Science and Technology]

Common Subjects in the Faculty of Science and Technology

	Course No.	Numbering	Course title	Cr.	Semester offered	Instructor	Student Year	Remarks
Faculty of Science and Technology Common Subject Group Ⅰ	SCT1230E	SCT106-75e00	INTRODUCTION OF SCIENCE AND TECHNOLOGY	2	AUT	FUJITA, Masahiro / Others	1	◇ Team-taught course, Combined with "SCIENCE, TECHNOLOGY AND ENVIRONMENT"
	SCT1150E	MTH101-75e00	MATHEMATICS A (LINEAR ALGEBRA)	2	AUT	TRIHAN, Fabien	1	
	SCT1160E	MTH102-75e00	MATHEMATICS B (CALCULUS)	2	AUT	TRIHAN, Fabien	1	
	SCT1170E	MTH103-75e00	MATHEMATICS EXERCISE 1	1	AUT	TRIHAN, Fabien	1	
	SCT1030E	PHY101-75e00	BASIC PHYSICS 1	2	3Q	DZIEMINSKA, Edyta	1	
	SCT1190E	CHM101-75e00	BASIC CHEMISTRY	2	SPR	MISAWA, Tomoyo / PENAFLOR, Tania	1	
	SCT1200E	BIO101-75e00	BASIC BIOLOGY	2	4Q	NIIKURA, Takako	1	
	SCT2030E	MTH104-75e00	BASIC INFORMATICS	2	SPR	TAKAOKA, Eiko	1	
	SCT1210E	SCT102-75e00	EXPERIMENTS & EXERCISE OF BASIC SCIENCE	1	SPR	DZIEMINSKA, Edyta / Others	1	
	SCT5130E	SCT203-75e00	ENGL. FOR SCI / ENGINEERING（ENVIRONMENT）	2	SPR	FUYUTSUKI, Seba	2	
Faculty of Science and Technology Common Subject Group Ⅱ	SCT1220E	PHY102-75e00	BASIC PHYSICS 2	2	SPR	MARRA, Pasquale	1~2	S, E
	SCT6690E	MTH201-75e00	MATHEMATICS C1 (STATISTICAL DATA ANALYSIS)	2	SPR	KIMURA, Akitoshi	2	E
	SCT6650E	BIO102-75e00	MOLECULAR BIOLOGY	2	SPR	FUJIWARA, Makoto / SUZUKI, Nobuhiro	2	S, E, Team-taught course
	SCT6700E	MTH105-75e00	MATHEMATICS B2 (CALCULUS OF SEVERAL VARIABLES)	2	AUT	MASE, Makiko*	2	E
	SCT6710E	MTH106-75e00	BASIC DIFFERENTIAL EQUATIONS	2	AUT	ARAI, Mamiko*	2	E
	SCT6660E	CHM102-75e00	INORGANIC CHEMISTRY (ANALYTICAL CHEMISTRY)	2	SPR	PENAFLOR, Tania	2	S
	SCT6800E	CHM103-75e00	ORGANIC CHEMISTRY	2	SPR	SUZUKI, Yumiko	2	S
	SCT6810E	CHM202-75e00	PHYSICAL CHEMISTRY	2	AUT	NANBU, Shinkoh	2～4	
	SCT6730E	MTH202-75e00	FOURIER & LAPLACE TRANSFORMS	2	SPR	ARAI, Mamiko*	2	E
	SCT6740E	PHY202-75e00	THERMODYNAMICS	2	SPR	MARRA, Pasquale	2	E
	SCT6750E	BIO201-75e00	CELL BIOLOGY	2	AUT	HAYASHI, Kensuke	2～4	
	SCT6760E	PHY203-75e00	INTRODUCTION TO QUANTUM MECHANICS	2	AUT	MARRA, Pasquale	2～4	
	SCT6770E	PHY204-75e00	ATOMIC & MOLECULAR SCIENCES	2	SPR	HARRIES, James*	2	E
	SCT6780E	CHM201-75e00	GEOSCIENCE	2	Not Offered		3	E, ☆
	SCT6820E	CHM203-75e00	ATMOSPHERIC CHEMISTRY	2	4Q	FUYUTSUKI, Seba	3	E, ☆
	SCT6685E	PHY301-75e00	ELECTROMAGNETISM	2	SPR	MARRA, Pasquale	2	S, E
	SCT6840E	SCT204-75e00	SCIENCE, TECHNOLOGY AND ENVIRONMENT	2	AUT	FUJITA, Masahiro / Others	2	E, Team-taught course, Combined with "INTRODUCTION OF SCIENCE AND TECHNOLOGY "★
	SCT6830E	BIO202-75e00	FUNDAMENTAL BIOCHEMISTRY	2	Not Offered		2～4	
	SCT6850E	SCT205-75e00	TECHNOLOGY & INNOVATION - CAREER DEVELOPMENT -	2	SPR	Co.)TANAKA, Hidetake / Others	2～4	Intensive Course, Combined with GSE30090 offered by General Studies★
	SCT6870E	CHM208-75e00	CHEMISTRY OF MATERIALS	2	3Q	FUYUTSUKI, Seba	2～4	Only for GE students. Combined with "MATERIALS AND LIFE SCIENCES (CHEMISTRY)"
	SCT6880E	MEC213-75e00	APPLIED MECHANICS	2	AUT	ZHANG, Yuelin	2～4	Only for GS students. Combined with "ENGINNERING AND APPLIED SCIENCES 1"
	SCT62100	MEC205-77e00	NUMERICAL ANALYSIS	2	SPR	DZIEMINSKA, Edyta	2・3	Not counted for the graduation requirements for the students who entered in and before 2025.
	N99226	SAC213-75e00	STUDY ABROAD (INTERNSHIP)	2	SPR	MIYATAKE, Masafumi	1~4	S, E,Intensive Course ※1

[ ] =Lottery Courses. Number in brackets is the capacity.
Instructor's name with * = adjunct instructor
S = Compulsory Elective for Green Science Course Students
E = Compulsory Elective for Green Engineering Course Students
◇= This course cannot be registered by students that have already registered in OUTLINE OF SCIENCE AND TECHNOLOGY
☆ = Every Other Year
★= This course cannot be registered by students who entered from 2023.

※1Those who participate in the program and achieve the prescribed results will be awarded credits for the above subjects. There is no need to register for the courses.
Students in their last semester can also participate in the programs but please keep in mind that no credits will be awarded.
For details on eligibility, application period, etc., please refer to the "Study Abroad Handbook" published by the Center for Global Education and Discovery and the bulletin board.
Grades of P (Pass) or X (Fail) will be used for these courses.

Course List [Department of Materials and Life Sciences (Green Science)]

	Course No.	Numbering	Course title	Cr.	Semester offered	Instructor	Student Year	Remarks
Department Core Courses	SML2040E	PHY101-76e00	MATERIALS AND LIFE SCIENCES (PHYSICS)	2	AUT	MARRA, Pasquale	2	
	SML2050E	CHM101-76e00	MATERIALS AND LIFE SCIENCES (CHEMISTRY)	2	3Q	FUYUTSUKI, Seba	2	
	SML2060E	BIO101-76e00	MATERIALS AND LIFE SCIENCES (BIOLOGY)	2	AUT	KAWAGUCHI / YASUGI	2	
	SML2070E	MLS101-76e00	MATERIALS AND LIFE SCIENCES LAB. A	1	AUT	KIKAWADA / HASHIMOTO / N.SUZUKI / FUJIWARA / HARADA / N.SUZUKI / FUYUTSUKI / YASUGI / VILLAREAL /	2	
	SML2080E	MLS201-76e00	MATERIALS AND LIFE SCIENCES LAB. B	1	SPR	HORIKOSHI / HOSHINO / YOKOTA / PEÑAFLOR	2	
	SML3030E	MLS202-76e00	MATERIALS AND LIFE SCIENCES LAB. C	1	3Q	Y.SUZUKI / USUKI / TANAKA / PEÑAFLOR	3	
	SML5130E	CHM201-76e00	CHEMISTRY LAB. 1	1	4Q	UCHIDA / NAGAO / MISAWA / PEÑAFLOR	3	
	SML5140E	CHM301-76e00	CHEMISTRY LAB. 2	1	1Q	TAKEOKA / N.SUZUKI /WITULSKI / HARADA	3	
	SML5150E	MLS303-76e00	PHYSICAL CHEMISTRY LAB.	1	2Q	NANBU / OKADA / KUZE	3	
	SML5210E	BIO201-76e00	BIOLOGY LAB. 1	1	4Q	KONDO / FUJIWARA / VILLAREAL / OTSUBO	3	
	SML5220E	BIO301-76e00	BIOLOGY LAB. 2	1	1Q	KAWAGUCHI / N.SUZUKI / VILLAREAL	3	
	SML5230E	BIO302-76e00	BIOLOGY LAB. 3	1	2Q	YASUGI / NIIKURA / HAYASHI / KURABAYASHI / VILLAREAL	3	
	SML4030E	MLS301-76e00	SEMINAR 1	1	AUT	Supervisor	4	
	SML4040E	MLS302-76e00	SEMINAR 2	1	SPR	Supervisor	4	
	SML4050E	MLS401-76e00	GRADUATION RESEARCH 1	1	AUT	Supervisor	4	
	SML4060E	MLS402-76e00	GRADUATION RESEARCH 2	1	SPR	Supervisor	4	
Department Specialized Courses	SML6490E	PHY301-76e00	ATOMIC AND MOLECULAR SPECTROSCOPY	2	Not Offered		1～4	☆
	SML6500E	CHM302-76e00	INSTRUMENTAL ANALYSIS	2	AUT	NAGAO / KUZE / UCHIDA / Y.SUZUKI / HASHIMOTO / MISAWA / PEÑAFLOR	1～4	Team taught course
	SML6510E	CHM303-76e00	ORGANIC AND NATURAL PRODUCT CHEMISTRY	2	AUT	USUKI Toyonobu	1～4	
	SML6520E	CHM304-76e00	ENVIRONMENTAL ANALYTICAL CHEMISTRY	2	SPR	FUYUTSUKI Seba	1～4	☆
	SML6530E	CHM305-76e00	GREEN CHEMISTRY	2	SPR	HORIKOSHI, Satoshi	1～4	
	SML6660E	PHY304-76e00	RADIATION PHYSICS AND CHEMISTRY	2	SPR	ODAGIRI Takeshi	1～4	
	SML6550E	CHM306-76e00	CATALYSIS CHEMISTRY	2	AUT	SUZUKI, Noriyuki	1～4	
	SML6570E	CHM302-76e00	THEORY-AIDED MOLECULAR DESIGN	2	AUT	NANBU Shinkoh	1～4	☆
	SML6580E	PHY303-76e00	QUANTUM REACTION DYNAMICS	2	AUT	HOSHINO Masamitsu	1～4	☆
	SML6590E	BIO303-76e00	TOPICS OF PLANT SCIENCE	2	SPR	N.SUZUKI / FUJIWARA	1～4	
	SML6630E	CHM309-76e00	STRUCTURAL CHEMISTRY	2	Not Offered		1～4	☆
	SML6700E	CHM310-76e00	SEPARATION CHEMISTRY IN ANALYSIS	2	Not Offered		1～4	
	SML6710E	CHM323-76e00	METALLIC AND ELECTRONIC MATERIALS	2	SPR	YOKOTA, Yukie	1～4	
	SML6720E	CHM311-76e00	POLYMER CHEMISTRY	2	SPR	FUJITA / TAKEOKA	1～4	Team taught course
	SML6740E	MLS306-76e00	NATURAL PRODUCT AND DRUG DISCOVERY	2	3Q	LUHATA, Lokadi	1～4	
	SML6760E	CHM324-76e00	INTRODUCTION TO MODELING OF NATURAL PHENOMENA	2	Not offered		1～4	☆
	SML5170E	MLS301-76e00	RESEARCH TOPICS IN LIFE SCIENCES	2	AUT	YASUGI / KAWAGUCHI / KONDO / FUJIWARA / KANZAWA / N.SUZUKI / OTSUBO / KURABAYASHI	1～4	☆
	SML5180E	MLS302-76e00	RESEARCH TOPICS IN ORGANIC AND INORGANIC CHEMISTRY	2	Not offered		1～4	☆
	SML6750E	MLS301-76e00	RESEARCH TOPICS IN PHYSICAL CHEMISTRY AND CHEMICAL PHYSICS	2	Not offered		1～4	☆
	GSS20510	ENV206-02e00	ENVIRONMENTAL SCIENCE	2	AUT/SPR	SUGIURA Mikiko	1～4	
	GSS20520	CMF203-02e00	SUSTAINABLE DEVELOPMENT	2	1Q/3Q	SUGIURA Mikiko	1～4	
	SML80300	MLS304-76j00	RESEARCH TRIAL (Spring)	1	SPR	Supervisor	3	※1
	SML80400	MLS305-76j00	RESEARCH TRIAL (Autumn)	1	AUT	Supervisor	3	※1

☆ = Every Other Year

※1:Not counted for graduation requirement. Please check P.FST27～ for details.

Course List
[Department of Engineering and Applied Sciences (Green Engineering)]

	Course No.	Numbering	Course title	Cr.	Semester offered	Instructor	Student Year	Remarks
Department Core Courses	SEA2040E	MEC101-77e00	ENGINEERING AND APPLIED SCIENCES 1	2	AUT	ZHANG, Yuelin	2	Combined with "APPLIED MECHANICS"
	SEA2050E	PHY101-77e00	ENGINEERING AND APPLIED SCIENCES 2	2	AUT	MARRA, Pasquale	2	Combined with "MATERIAL AND LIFE SCIENCE (PHYSICS)"
	SEA2060E	EEE201-77e00	ENGINEERING AND APPLIED SCIENCES 3	2	1Q	KONG, Deshi	2	
	SEA2070E	EAS101-77e00	ENGINEERING AND APPLIED SCIENCES LAB. 1	1	AUT	SUZUKI / KIKUCHI / SAKAI / HISAMORI / NAKAMURA / TOGASHI / ZHANG	2	
	SEA2080E	EAS201-77e00	ENGINEERING AND APPLIED SCIENCES LAB. 2	1	SPR	SAKAMA* / SHIMOMURA / TAKAI / KUWAHARA / GOTO / NAKAMURA / WATANABE / TAKEHARA / TOGASHI / YILMAZ / DZIEMINSKA / KONG	2	
	SEA5140E	PHY301-77e00	GREEN ENGINEERING LAB. 1	1	SPR	MARRA, Pasquale	2	
	SEA5150E	MEC301-77e00	GREEN ENGINEERING LAB. 2	1	SPR	ICHIYANAGI / TANAKA / NAGASHIMA / TAKEHARA / HISAMORI	3	
	SEA5160E	EEE301-77e00	GREEN ENGINEERING LAB. 3	1	AUT	SAKAMOTO / TOGASHI / NOMURA / TAKAO / MIYATAKE / KONG	3	
	SEA5170E	EAS301-77e00	TOPICS OF GREEN ENGINEERING 1	2	3Q	DZIEMINSKA, Edyta	3	
	SEA5180E	EAS302-77e00	TOPICS OF GREEN ENGINEERING 2	2	AUT	KONDO, Atsushi*	3	
	SEA4030E	EAS401-77e00	GRADUATION RESEARCH 1	1	AUT	Supervisor	4	
	SEA4040E	EAS402-77e00	GRADUATION RESEARCH 2	1	SPR	Supervisor	4	
Department Specialized Courses	SEA6520E	MEC302-77e00	THERMAL ENERGY CONVERSION	2	AUT	SUZUKI, Takashi	1～4	
	SEA6530E	MEC303-77e00	FLUID ENERGY CONVERSION	2	SPR	WATANABE, Mariko	1～4	
	SEA6540E	MEC304-77e00	ENERGY & MATERIALS	2	AUT	TAKAI, Kenichi	1～4	
	SEA6550E	EEE302-77e00	NUCLEAR ENERGY ENGINEERING	2	AUT	LIEM*/YOSHIKAWA* /HIRADE*/ SHIBA*/TATSUZAKI*/ KONG / YAGAI / SAKAMOTO /	1～4	Every Other Week, Team-taught course
	SEA6690E	EEE306-77e00	MOTOR DRIVE SYSTEMS	2	Not offered		1～4	☆
	SEA6590E	EEE305-77e00	CLEAN ENERGY	2	SPR	YAGAI, Tsuyoshi	1～4	
	SEA6600E	EAS303-77e00	SIMULATION ENGINEERING	2	Not offered		1～4	☆
	SEA6610E	INF308-77e00	COMMUNICATION AND NETWORK ENGINEERING	2	SPR	BANDAI / OGAWA / HAYASHI / TAKAHASHI	1～4	Team-taught course
	SEA6620E	EAS403-77e00	TOPICS OF GREEN ENGINEERING 3	2	2Q	KONG, Deshi	1～4	
	SEA6650E	EAS404-77e00	AIRCRAFT DESIGN WITH MECHANICS OF FLIGHT	2	1Q	DZIEMINSKA, Edyta	1～4	
	SEA6585E	EEE304-77e00	POWER ELECTRONICS	2	SPR	MIYATAKE, Masafumi	1～4	☆
	SEA6580E	EEE303-77e00	ELECTRIC POWER SYSTEM ENGINEERING	2	AUT	SAKAMOTO, Orie	1～4	
	SEA6700E	EEE308-77e00	FUNDAMENTALS OF SYSTEM ANALYSIS	2	AUT	KONG, Deshi	1～4	
	GSS20510	ENV206-02e00	ENVIRONMENTAL SCIENCE	2	SPR / AUT	SUGIURA, Mikiko	1～4	[100]
	GSS20520	CMF203-02e00	SUSTAINABLE DEVELOPMENT	2	1Q / 3Q	SUGIURA, Mikiko	1～4	[100]
	SEA80300	EAS304-77j00	RESEARCH TRIAL (Spring)	1	SPR	Supervisor	3	※1
	SEA80400	EAS305-77j00	RESEARCH TRIAL (Autumn)	1	AUT	Supervisor	3	※1

Instructor's name with * = adjunct instructor

☆=Every Other Year

※1:Not counted for graduation requirement. Please check P.FST36 for details.

List for Corresponding Courses [Faculty of Science and Technology]

* Although the language of instruction for the following courses are different, courses listed here are regarded as identical courses.
The students may only take one of the two courses.

English			Japanese	
Course No.	Course Title		Course No.	Course Title
SCT6740E	THERMODYNAMICS	⇔	SCT68300	熱力学
SCT6760E	INTRODUCTION TO QUANTUM　DYNAMICS	⇔	SCT68900	量子力学入門
SCT6770E	ATOMIC & MOLECULAR SCIENCES	⇔	SCT64800	原子・分子科学
SCT6650E	MOLECULAR BIOLOGY	⇔	SCT66800	分子生物学
SCT6750E	CELL BIOLOGY	⇔	SCT62300	細胞生物学
SCT6800E	ORGANIC CHEMISTRY	⇔	SCT60600	有機化学（有機分子）
SML6510E	ORGANIC AND NATURAL PRODUCT CHEMISTRY	⇔	SML61500	天然有機化学
SML6530E	GREEN CHEMISTRY	⇔	SML61700	グリーンケミストリー
SML6660E	RADIATION PHYSICS AND CHEMISTRY	⇔	SML62500	放射線科学
SML6550E	CATALYSIS CHEMISTRY	⇔	SML65300	触媒反応化学
SML6570E	THEORY-AIDED MOLECULAR DESIGN	⇔	SML64200	理論分子設計
SML6580E	QUANTUM REACTION DYNAMICS	⇔	SML65100	原子衝突物理学
SML6590E	TOPICS OF PLANT SCIENCE	⇔	SML65200	植物生理学
		⇔	SML65500	植物バイオテクノロジー
SML6630E	STRUCTURAL CHEMISTRY	⇔	SML60100	分子構造化学
SML6700E	SEPARATION CHEMISTRY IN ANALYSIS	⇔	SML60400	分離分析化学
SEA2040E	ENGINEERING AND APPLIED SCIENCES 1	⇔	SEA10200	機能創造理工学１
SEA2050E	ENGINEERING AND APPLIED SCIENCES 2	⇔	SEA10300	機能創造理工学２
SEA2060E	ENGINEERING AND APPLIED SCIENCES 3	⇔	SEA20400	機能創造理工学３
SEA6520E	THERMAL ENERGY CONVERSION	⇔	SEA60400	熱エネルギー変換
SEA6530E	FLUID ENERGY CONVERSION	⇔	SEA60500	流体エネルギー変換
SEA6540E	ENERGY & MATERIALS	⇔	SEA61800	エネルギーと材料
SEA6690E	MOTOR DRIVE SYSTEMS	⇔	SEA67600	モータドライブシステムⅠ
		⇔	SEA67700	モータドライブシステムⅡ
SEA6580E	ELECTRIC POWER SYSTEM ENGINEERING	⇔	SEA65600	電力系統工学
SEA6610E	COMMUNICATION AND NETWORK ENGINEERING	⇔	SIC61700	通信ネットワークシステム
SEA6590E	CLEAN ENERGY	⇔	SEA65700	電気機器学
SEA6585E	POWER ELECTRONICS	⇔	SEA65800	パワーエレクトロニクス
SEA6700E	FUNDAMENTALS OF SYSTEM ANALYSIS	⇔	SEA63100	システム解析の基礎
SML6710E	METALLIC AND ELECTRONIC MATERIALS	⇔	SML65800	金属・電子材料
SML6720E	POLYMER CHEMISTRY	⇔	SML62800	高分子化学
		⇔	SML62900	ソフトマテリアル
SML6620E	TOPICS OF GREEN SCIENCE 3	⇔	SML64500	細胞機能工学
SCT6820E	ATMOSPHERIC CHEMISTRY	⇔	SML65600	大気化学