

Global Science Course (GSC)

Global Science Course

1. What is the Global Science Course?

The Global Science Course (GSC) was established in AY 2014 jointly by three science faculties—the Faculty of Science, the Faculty of Computer Science and Engineering and the Faculty of Life Science—together with the Faculty of Foreign Studies. The Course aims to foster future professionals in science and engineering who can take on challenges in a global society, by helping them develop specialized knowledge in science, along with English proficiency. In the Course, each of the three science faculties establishes unique educational objectives and curricula, which feature its field of specialization and unique characteristics. The GSC in the Faculty of Computer Science and Engineering provides education based on the three policies specified below, in addition to the policies of the Faculty.

Admission Policy

The Course admits students who will be actively and globally involved in a field useful to society or who are interested in globally pioneering a new field of information science.

In addition to meeting the admission policy set by the Faculty, students should also have a desire to gain a good command of English for business or research outside Japan, to foster a willingness to take on challenges, and to obtain a broad knowledge in the field of liberal arts.

Curriculum Policy

The Course aims to develop students who have a good command of English, a willingness to take on challenges, and a broad educational foundation, in addition to specialized education in the Faculty of Computer Science and Engineering. Moreover, in addition to those set in the curriculum policy of the Faculty, the Course seeks to meet the following objectives.

- To help students acquire the ability to understand and to express themselves in English, based on logical thinking and knowledge of specialized terminology.
- To provide students with opportunities for internships and study abroad, thereby developing their willingness to engage in unknown fields without the fear of failure.
- To educate students about Japanese and other cultures in order to develop their intercultural communication skills.

Diploma Policy

Students are certified as having completed the Course if they have acquired fundamental knowledge and skills in information science, competency in a language, a willingness to take on challenges in a global society, and a broad knowledge in the field of liberal arts.

More specifically, in addition to those set in the Faculty's diploma policy, students must meet the following criteria.

- Have a good command of English, which allows them to read technical documents, present their research, and engage in discussions.
- Have a strong will to move forward in the face of adversity and setbacks.
- Possess a good understanding of Japanese culture and a willingness to respect and understand other cultures.

2. Enrollment in Global Science Course

Students must submit an application to enroll in the Global Science Course.

(1) Enrollment numbers

Approximately 20 students

(2) Selection

In accordance with each faculty's admission policy, applicants are selected based on their basic academic ability, which include their performance on placement tests. Additionally, students' reasons for seeking entrance into the Course (application and interview) will also be considered.

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(3) Selection schedule

An information session will be held in mid-June of the first semester (spring). The GSC application deadline will be at the end of June, and the screening of applications will be held in early July. Students who are selected for the course will start their curriculum with “Special English (Summer Camp)” (compulsory core subject), which will be held during the summer holiday period in September.

3. Global Science Course Curriculum

- Students must enroll in “core subjects,” “core elective subjects,” and “designated elective subjects” as specified in the Course Composition table. More specifically, students must obtain all of the credits from the “core subjects,” seven credits from the “core elective subjects,” and six credits from the “designated elective subjects.”
- “Special English (Summer Camp)” is a compulsory core subject offered to all GSC registered students in the Faculties of Science, the Faculty of Computer Science and Engineering, and the Faculty of Life Sciences.
- Registered students are certified as having completed the Course if they acquire a minimum of 26 credits as specified in the Course Composition table, while also meeting the credit requirements for graduation.

4. Features of the Global Science Course

GSC strongly promotes study-abroad programs, such as training at an overseas university or research institution. During the spring holiday period (February and March), “Global Science Camp” is provided to first year undergraduate students as a training program at an overseas university, research institution, or business. This subject provides students with an opportunity to explore their potentials by engaging in conversations and exchanging views with people working at the frontline of the global academic and business world. The subject thus aims to give students an experience, which they will be able to use in their research and future careers. In addition, GSC provides students with overseas internships as well as a number of other opportunities that allow them to gain more experience in global settings.

On campus, GSC students are able to take “Special English” subjects, which are aimed at not only improving their general English abilities but also developing their ability to present and discuss their ideas on specific topics in natural sciences using English. In subjects offered by the Global Japan Program (GJP), students are able to study history, culture, law, business, science, technology, and other fields, in English with students from overseas. Discussions with international students with diverse backgrounds help students develop their English proficiency and cross-cultural understanding.

5. Other

- There are a limited number of spaces available for the “Global Science Camp.” If the number of applications exceeds this limit, applicants are selected on the basis of their English ability, academic performance, and other related factors.
- Credits for the “Special English (Summer Camp)” and “Global Science Camp” will not be included in the per-semester maximum credit limitations set by the Faculty.

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◇ Course Composition

	Course/Subject Details			No. of Credits	Year level (and above)	Notes	Minimum Required Number of Credits
Core	Specialized education		Laboratory in Computer Science and Engineering A · B	4	2		13
			Seminar in Computer Science and Engineering 1	2	3		
			Seminar in Computer Science and Engineering 2A · 2B	6	4		
	Interdisciplinary education	Special English	Summer Camp	1	1	Intensive	
Core elective	General education		Select from the subjects in the field of humanities and social science.	1 or 2 each	1 to 2	4 credits from subjects in humanities and social science	7
	Interdisciplinary education	Special English	Select from the subjects other than “Summer Camp.”	1 or 2 each	1 to 2	3 credits from Special English subjects	
Designated elective	Specialized education		Global Science Camp	2	1	Intensive	6
	Interdisciplinary education	Special English	Select from the subjects other than “Summer Camp.”	1 or 2 each	1 to 2		
	General education/ interdisciplinary education	Career formation assistance education subjects	Select from the career formation assistance subjects and “Opportunities in Sciences”.	2 to 4 each	1 to 3		
	General education / interdisciplinary education	Subjects provided in English	Select from GJP subjects and the subjects listed below.	2 each	1 to 2		
Total: A minimum of 26 credits							

* Be sure to refer to the Registration Regulations for details regarding the handling of credits of the subjects to be registered.
For details of the class period, registration restriction, and other related information regarding each subject, refer to the Course Registration Supplementary Guide.

Subjects Provided in English (General Education Subjects)

Category	Course/Subject Name	Notes
Nature	Environmental Problems	Subject repeated in Spring/Fall Semesters
Humanities	The World of History	Provided only in Fall Semester
Humanities	Approaches to Literature and the Arts	Subject repeated in Spring/Fall Semesters
Society	Considering American Society	Subject repeated in Spring/Fall Semesters
Nature	Ecology and Society	Subject repeated in Spring/Fall Semesters
Society	People and Society	Subject repeated in Spring/Fall Semesters
Society	World of Management Science	Subject repeated in Spring/Fall Semesters