

# **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 Science provides education based on the three policies specified below, in addition to the policies of the Faculty.

### Admission Policy

The Course admits a wide range of students with the following characteristics.

1. Students who are interested in communicating in English and want to use it in their future professions.
2. Students who want to share what they have learned or discovered in science with people all over the world.

### Curriculum Policy

The Course offers education that meets the following objective, in addition to specialized education in the Faculty of Science.

1. To develop students' ability to express ideas in English.
2. To provide students with an opportunity to learn about Japanese and thereby develop their ability to understand and accept various cultures.
3. To develop students' ability to take on challenges and to foster their autonomy, which will allow them to become actively involved in the global community.

### Diploma Policy

The Course certifies students as having completed the course, if they fulfill the following criteria.

1. Possess basic specialized knowledge in a field of science.
2. Able to engage in communication and the exchange of ideas using English.
3. Able to recognize the similarities and differences between Japanese and other cultures and have the flexibility to understand and accept various cultures.
4. Possess the autonomy and ability to take on challenges when faced with adverse situations.

## 2. Enrollment in Global Science Course

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

### (1) Enrollment numbers

Approximately 20 percent of the admission quota of the faculty

### (2) Selection

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

### (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.

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### **3. Global Science Course Curriculum**

All registered GSC students are required to enroll in “Special English (Summer Camp)” offered by the Faculty of Foreign Studies as a compulsory core subject.

Students must refer to the Course Composition table and enroll in subjects as indicated below.

- Acquire a minimum of 10 credits within the “Specialized Knowledge” subject group.
- Within the “Effective Communication” subject group, acquire at least 10 credits, which must include all credits of the “core subjects”, at least six credits of the “core elective subjects”, and credits from the “elective subjects.”
- Acquire at least four credits within the “Establishing One’s Identity” subject group and at least two credits within the “Challenging Spirit and Independence” subject group. Students are especially encouraged to enroll in “Global Science Camp.”

Students are certified as having completed the course if they register for the course and acquire a minimum of 26 credits as specified in the Course Composition table.

### **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” (specialized education subject) 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,” which is offered by the Faculty of Science as a specialized subject. 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 Name		Credit	Year level (and above)	Subject Type	Notes	Minimum Required Number of Credits
Specialized Knowledge	Specialized elective subjects allocated to 3rd- and upper-year programs	Elective			Faculty of Science specialized education subject		10
Effective Communication	Seminar on Basic Mathematics (GSC class)	Core	2	1	Faculty of Science specialized education subject	Exclusive to GSC enrollees (Dept. of Mathematics)	10 (Acquire a minimum of six credits from the core elective subjects.)
	Seminar on Basic Physics	Core	2	1	Faculty of Science specialized education subject	Exclusive to GSC enrollees (Dept. of Physics)	
	Special English (Summer Camp)	Core	1	1	Faculty of Foreign Studies specialized education subject	With registration restriction	
	Special English (except Summer Camp)	Core elective			Faculty of Foreign Studies specialized education subject	With registration restriction	
	Lecture on Science in English (mathematics)	Core elective	2	3	Faculty of Science specialized education subject		
	Lecture on Science in English (physics)	Core elective	2	3	Faculty of Science specialized education subject		
	Reading Mathematics in English	Elective	2	3	Faculty of Science specialized education subject		
	Readings in English Publications on Physics A	Elective	2	2	Faculty of Science specialized education subject		
Establishing One's Identity	Introduction to History of Japanese Thought	Elective	2	1	General education subject		4
	Religion in Japan	Elective	2	1	General education subject		
	Introduction to Premodern Japanese History	Elective	2	1	General education subject		
	Introduction to Modern and Contemporary Japanese History	Elective	2	1	General education subject		
	Historical Origins of Modern Japan	Elective	2	1	General education subject		
	Japanese Culture in Historical Perspective	Elective	2	1	General education subject		
	Introduction to Classic Japanese Literature	Elective	2	1	General education subject		
	Introduction to Modern and Contemporary Japanese Literature	Elective	2	1	General education subject		
	Introduction to Japanese Art	Elective	2	1	General education subject		
	Introduction to Japanese Literature	Elective	2	1	General education subject		
	Modern Japanese Literature	Elective	2	1	General education subject		
	Traditional Cultures in Kyoto	Elective	2	1	General education subject		
	History, Culture and Sightseeing of Kyoto	Elective	2	1	General education subject		
	History and Culture of Kyoto	Elective	2	1	General education subject		
Challenging Spirit and Independence	Global Science Camp	Elective	2	1	Faculty of Science specialized education subject	Priority given to GSC enrollees Recommended subject	2
	Opportunities in Sciences	Elective	2	2	Faculty of Science specialized education subject		
	Industry and Mathematics	Elective	2	2	Faculty of Science specialized education subject		
	Internship 1	Elective	2	Exclusive to 2nd- and 3rd-year students	General education subject	With registration restriction	
	Internship 2	Elective	2	2	General education subject	With registration restriction	
	Internship 3	Elective	4	Exclusive to 3rd-year students	General education subject	With registration restriction	
	Internship 4	Elective	4	Exclusive to 2nd- and 3rd-year students	General education subject	With registration restriction	
	Self-Discovery through College Life	Elective	2	Exclusive to 1st-year students	General education subject	With registration restriction	
							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.